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In your requests please include the following reference number 78EE117C99-2330393051

Contents

1.1 libjpeg 6b

1.1.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.1.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into
larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to
our electronic mailing list. Mailing list members are notified of updates
and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION
ROADMAP
=====================

This file contains the following sections:

OVERVIEW   General description of JPEG and the IJG software.
LEGAL ISSUES   Copyright, lack of warranty, terms of distribution.
REFERENCES   Where to learn more about JPEG.
ARCHIVE LOCATIONS   Where to find newer versions of this software.
RELATED SOFTWARE   Other stuff you should get.
FILE FORMAT WARS   Software *not* to get.
TO DO   Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
 install.doc   How to configure and install the IJG software.
 usage.doc   Usage instructions for cjpeg, djpeg, jpegtran,
                  rdjpgcom, and wrjpgcom.
 *.1   Unix-style man pages for programs (same info as usage.doc).
 wizard.doc   Advanced usage instructions for JPEG wizards only.
 change.log   Version-to-version change highlights.
Programmer and internal
 documentation:
 libjpeg.doc   How to use the JPEG library in your own programs.
 example.c   Sample code for calling the JPEG library.
 structure.doc   Overview of the JPEG library's internal structure.
 filelist.doc   Road map of IJG files.
 coderules.doc   Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images.
 JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images

are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting
the
 hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
"jpegtran", a utility for lossless transcoding between different JPEG
processes, and "rdjpgcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments
 in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
REFERENCES section for introductory material.) Rather, it is intended to
be reliable, portable, industrial-strength code. We do not claim to have
achieved that goal in every aspect of the software, but we strive for it.

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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic
 coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
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  CompuServe Incorporated. GIF(sm) is a Service Mark property of
  CompuServe Incorporated."

REFERENCES
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We
 highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
 Wallace, Gregory K. "The JPEG Still Picture Compression Standard",

Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more
 leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides
good explanations and example C code for a multitude of compression methods
including JPEG. It is an excellent source if you are comfortable reading C
code but don't know much about data compression in general. The book's JPEG
sample code is far from industrial-strength, but when you are ready to look
at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data
Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published
by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp.
The book includes the complete text of the ISO JPEG standards (DIS 10918-1
and draft DIS 10918-2). This is by far the most complete exposition of JPEG
in existence, and we highly recommend it.

The
 JPEG standard itself is not available electronically; you must order a
paper copy through ISO or ITU. (Unless you feel a need to own a certified
official copy, we recommend buying the Pennebaker and Mitchell book instead;
it's much cheaper and includes a great deal of useful explanatory material.)
In the USA, copies of the standard may be ordered from ANSI Sales at (212)
642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI
doesn't take credit card orders, but Global does.) It's not cheap: as of
1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7%
shipping/handling. The standard is divided into two parts, Part 1 being the
actual specification, while Part 2 covers compliance testing methods. Part 1
is titled "Digital Compression and Coding of Continuous-tone Still Images,
Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS
10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of
Continuous-tone Still
 Images, Part 2: Compliance testing" and has document
numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3,
a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG
currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file
format. For the omitted details we follow the "JFIF" conventions, revision
1.02. A copy of the JFIF spec is available from:
 Literature Department
 C-Cube Microsystems, Inc.
 1778 McCarthy Blvd.
 Milpitas, CA 95035
 phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation
 scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available
from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't
 have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers
 archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
 send usenet/news.answers/jpeg-faq/part1
 send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a
few of them use this library to do so.) The JPEG FAQ described above lists
some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous
sites,
 notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read.

(For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of
additional data about an image. TIFF/JPEG is fairly new and not yet widely
supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should
be able to read the most common variant of SPIFF. SPIFF has some technical
advantages over JFIF, but its major claim to fame is simply that it is an
official standard rather than an informal one. At this point it is unclear
whether
 SPIFF will supersede JFIF or whether JFIF will remain the de-facto
standard. IJG intends to support SPIFF once the standard is frozen, but we
have not decided whether it should become our default output format or not.
(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed,
one of the original reasons for developing this free software was to help
force convergence on common, open format standards for JPEG files. Don't
use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality.
The current method for scaling the quantization tables is known not to be
very good at low Q values. We also intend to investigate block boundary
smoothing, "poor man's variable quantization", and other means of improving
quality-vs-file-size performance without
 sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG
Part 3 extensions --- principally, variable quantization and the SPIFF file
format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.2 sqlite 3.23.1

1.2.1 Available under license :

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  May you find forgiveness for yourself and forgive others.
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1.3 bzip2 1.0.8

1.4 xerces-j 2.12.2

1.4.1 Available under license :

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1.6 libxml2 2.9.12

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1.7 asm 9.1

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* /opt/cola/permits/1175494765_1624391692.09/0/asm-9-1-sources-2-jar/org/objectweb/asm/ClassWriter.java

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jar/org/objectweb/asm/AnnotationVisitor.java

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jar/org/objectweb/asm/signature/SignatureReader.java

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jar/org/objectweb/asm/signature/SignatureVisitor.java
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1.9 visual-studio-runtime 9.00.30729.9518

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We're still working out the best way to present contributors and trying to be as accurate as possible. The list below is generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core SDK 1.0. Where multiple email addresses were returned for a single person, the counts were aggregated with the email address reported the most commits.

```bash
git shortlog -sne --no-merges --until release/1.1.0@{2017-02-25}
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

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- [Erik Schierboom (1)](https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=erik_schierboom@hotmail.com)
- [Scott Carlton (1)](https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=v-sccarl@microsoft.com)
- [Senthil Chellappan (1)](https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=schellap@bose.guest.corp.microsoft.com)
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Contributions to .NET Core 2.0

The list below is generated with the following command listed below in an attempt to capture all contributions
which have gone into .NET Core 2.0.

```bash
git shortlog -sne --no-merges --since release/2.0.0@{2016-10-03} --until release/2.0.0@{2017-07-25}
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are
listed below will be shown.

* [CLI](#cli)
* [CoreCLR](#coreclr)
* [CoreFX](#corefx)
* [WCF](#wcf)

CLI

* [Livar Cunha (311)](https://github.com/dotnet/cli/commits/release/2.0.0?author=livar@live.com)
* [Piotr Puszkiewicz (219)](https://github.com/dotnet/cli/commits/release/2.0.0?author=piotrp@microsoft.com)
* [Eric Erhardt (159)](https://github.com/dotnet/cli/commits/release/2.0.0?author=eric.erhardt@microsoft.com)
* [Justin Goshi (145)](https://github.com/dotnet/cli/commits/release/2.0.0?author=jgoshi@microsoft.com)
* [Krzysztof Wicher (103)](https://github.com/dotnet/cli/commits/release/2.0.0?author=mordotymoja@gmail.com)
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 [Mike Lorbetske (100)](https://github.com/dotnet/cli/commits/release/2.0.0?author=mike.lorbetske@n3-p.com)
* [jonsequitur (77)](https://github.com/dotnet/cli/commits/release/2.0.0?author=jonsequeira@gmail.com)
* [John Beisner (76)](https://github.com/dotnet/cli/commits/release/2.0.0?author=jbeisner@microsoft.com)
* [Nick Guerrera (71)](https://github.com/dotnet/cli/commits/release/2.0.0?author=nicholg@microsoft.com)
* [William Li (67)](https://github.com/dotnet/cli/commits/release/2.0.0?author=wul@microsoft.com)
* [Livar (58)](https://github.com/dotnet/cli/commits/release/2.0.0?author=licavalc@microsoft.com)
* [Jon Sequeira (52)](https://github.com/dotnet/cli/commits/release/2.0.0?author=jonsequeira@gmail.com)
* [Livar Cunha (38)](https://github.com/dotnet/cli/commits/release/2.0.0?author=licavalc@microsoft.com)
* [Daniel Plaisted (34)](https://github.com/dotnet/cli/commits/release/2.0.0?author=daplaist@microsoft.com)
* [Faizan Ahmad (30)](https://github.com/dotnet/cli/commits/release/2.0.0?author=faahmad@microsoft.com)
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 [Zlatko Knezevic (29)](https://github.com/dotnet/cli/commits/release/2.0.0?author=zlakne@microsoft.com)
* [Bryan Thornbury (26)](https://github.com/dotnet/cli/commits/release/2.0.0?author=brthor@microsoft.com)
* [Scott Carlton (19)](https://github.com/dotnet/cli/commits/release/2.0.0?author=v-sccarl@microsoft.com)
* [mlorbetske (17)](https://github.com/dotnet/cli/commits/release/2.0.0?author=mike.lorbetske@n3-p.com)
* [Matt Ellis (16)](https://github.com/dotnet/cli/commits/release/2.0.0?author=matell@microsoft.com)
* [Rainer Sigwald (16)](https://github.com/dotnet/cli/commits/release/2.0.0?author=raines@microsoft.com)
* [Satya Madala (14)](https://github.com/dotnet/cli/commits/release/2.0.0?author=samadala@microsoft.com)
* [Kevin Ransom (13)](https://github.com/dotnet/cli/commits/release/2.0.0?author=kevinr@microsoft.com)

* [Vijay Ramakrishnan (12)](https://github.com/dotnet/cli/commits/release/2.0.0?author=vramak@microsoft.com)
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 [Rama Krishnan Raghupathy
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* [Steve Sanderson
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* [Ankit Mishra (11)](https://github.com/dotnet/cli/commits/release/2.0.0?author=anmishr@microsoft.com)
* [Harsh Jain (10)](https://github.com/dotnet/cli/commits/release/2.0.0?author=harjain@microsoft.com)
* [Nate Amundson (9)](https://github.com/dotnet/cli/commits/release/2.0.0?author=naamunds@microsoft.com)
* [Rohit Agrawal (9)](https://github.com/dotnet/cli/commits/release/2.0.0?author=ragrawal@microsoft.com)
* [Chris Rummel (9)](https://github.com/dotnet/cli/commits/release/2.0.0?author=crummel@microsoft.com)
* [Enrico Sada (8)](https://github.com/dotnet/cli/commits/release/2.0.0?author=enrico@sada.io)
* [Jeff Kluge
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* [seancpeters (8)](https://github.com/dotnet/cli/commits/release/2.0.0?author=sepeters@microsoft.com)
* [Omair Majid (8)](https://github.com/dotnet/cli/commits/release/2.0.0?author=omajid@redhat.com)
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* [Zbynk Sailer (7)](https://github.com/dotnet/cli/commits/release/2.0.0?author=v-zbsail@microsoft.com)
* [Shayne Boyer (6)](https://github.com/dotnet/cli/commits/release/2.0.0?author=spboyer@live.com)
* [dasMulli (6)](https://github.com/dotnet/cli/commits/release/2.0.0?author=martin.andreas.ullrich@gmail.com)
* [Arun Mahapatra
(6)](https://github.com/dotnet/cli/commits/release/2.0.0?author=codito@users.noreply.github.com)
* [Parallels (6)](https://github.com/dotnet/cli/commits/release/2.0.0?author=livar@live.com)
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 [Mike Lorbetske (5)](https://github.com/dotnet/cli/commits/release/2.0.0?author=mlorbe@microsoft.com)
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* [Arun Mahapatra (4)](https://github.com/dotnet/cli/commits/release/2.0.0?author=armahapa@microsoft.com)
* [Sridhar Periyasamy (4)](https://github.com/dotnet/cli/commits/release/2.0.0?author=sridhper@microsoft.com)
* [Rohit Agrawal (NUGET)
(4)](https://github.com/dotnet/cli/commits/release/2.0.0?author=ragrawal@microsoft.com)
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* [vsccarl (2)](https://github.com/dotnet/cli/commits/release/2.0.0?author=v-sccarl@microsoft.com)
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.NET 5 is an amazing milestone enabled, in part, by a wonderfully engaged community. This page is an attempt to
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Thank you!!

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Contributions to .NET Core 1.1

We're still working out the best way to present contributors and trying to be as accurate as possible. The list below is generated with the following command against each repo. The release qualifier is different from the example in some cases. Also, where multiple email addresses were returned for a single person, the counts were aggregated with the email address reported the most commits.


```bash
git shortlog -sne --no-merges --since {2016-05-20} --until {2016-11-08}
```

```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

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- [Jason Pang (42)](https://github.com/dotnet/wcf/commits/release/1.1.0/?author=jasonpa@microsoft.com)

- [Matt Connew (23)](https://github.com/dotnet/wcf/commits/release/1.1.0/?author=mconnew@microsoft.com)

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# Contributions to .NET Core 2.0 Preview 2

We're still working out the best way to present contributors and trying to be as accurate as possible. The list below is generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core 2.0 Preview 2. Where multiple email addresses were returned for a single person, the counts were aggregated with the email address reported the most commits.

```bash
git shortlog -sne --no-merges --since release/2.0.0@{2017-05-05} --until release/2.0.0@{2017-06-07}
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

* [CLI](#cli)
* [CoreCLR](#coreclr)
* [CoreFX](#corefx)
* [WCF](#wcf)

CLI

* [Livar Cunha (57)](https://github.com/dotnet/cli/commits/release/2.0.0?author=livar@live.com)
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* [William Li (21)](https://github.com/dotnet/cli/commits/release/2.0.0?author=wul@microsoft.com)
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* [Daniel Plaisted (8)](https://github.com/dotnet/cli/commits/release/2.0.0?author=daplaist@microsoft.com)
* [Rainer Sigwald (5)](https://github.com/dotnet/cli/commits/release/2.0.0?author=raines@microsoft.com)
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* [Ashish Jain (NUGET) (2)](https://github.com/dotnet/cli/commits/release/2.0.0?author=asja@microsoft.com)
* [Matt Ellis (2)](https://github.com/dotnet/cli/commits/release/2.0.0?author=matell@microsoft.com)
* [Nat Ayewah (2)](https://github.com/dotnet/cli/commits/release/2.0.0?author=nayewah@microsoft.com)
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* [faahmad (2)](https://github.com/dotnet/cli/commits/release/2.0.0?author=faahmad@FAAHMAD-DEV32)
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CoreCLR

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WCF

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# Contributions to .NET Core 2.0 Preview 1

We're still working out the best way to present contributors and trying to be as accurate as possible. The list below is

generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core 2.0 Preview 1. Where multiple email addresses were returned for a single person, the counts were aggregated with the email address reported the most commits.

```bash
git shortlog -sne --no-merges --since release/2.0.0@{2016-10-03} --until release/2.0.0@{2017-05-05} --committer="dotnet-bot" --invert-grep
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

* [CLI](#cli)
* [CoreCLR](#coreclr)
* [CoreFX](#corefx)
* [WCF](#wcf)

CLI

* [Livar Cunha (227)](https://github.com/dotnet/cli/commits/release/2.0.0?author=livar@live.com)
* [Piotr Puszkiewicz (219)](https://github.com/dotnet/cli/commits/release/2.0.0?author=piotrp@microsoft.com)
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 [Justin Goshi (145)](https://github.com/dotnet/cli/commits/release/2.0.0?author=jgoshi@microsoft.com)
* [Eric Erhardt (136)](https://github.com/dotnet/cli/commits/release/2.0.0?author=eric.erhardt@microsoft.com)
* [Krzysztof Wicher (103)](https://github.com/dotnet/cli/commits/release/2.0.0?author=mordotymoja@gmail.com)
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CoreCLR

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* [Bruce Forstall (80)](https://github.com/dotnet/coreclr/commits/release/2.0.0?author=brucefo@microsoft.com)
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# Contributions to .NET Core 2.1

The list below is generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core 2.1.

```bash
git shortlog -sne --no-merges --since 2017-11-16 --until 2018-05-15
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

* [CLI](#cli)
* [CoreCLR](#coreclr)
* [CoreFX](#corefx)
* [WCF](#wcf)

CLI

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1.11 libjpeg 6

1.11.1 Available under license :

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  README.ijg

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 (any code inherited from libjpeg, and any modifications to that code.)

- The Modified (3-clause) BSD License, which is listed below

 This license covers the TurboJPEG API library and associated programs, as
 well as the build system.

- The zlib License, which is listed below

 This license is a subset of the other two, and it covers the libjpeg-turbo
 SIMD extensions.

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===

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The zlib License
================

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Why Three Licenses?
====================

The zlib License could have been used instead of the Modified (3-clause) BSD
License, and since the IJG License effectively subsumes the distribution
conditions of the zlib License, this would have effectively placed
libjpeg-turbo binary distributions under the IJG License. However, the IJG
License specifically refers to the Independent JPEG Group and does not extend
attribution and endorsement protections to other entities. Thus, it was
desirable to choose a license that granted us the same protections for new code
that were granted to the IJG for code derived from their software.

1.12 sqlite 3.39.4

1.12.1 Available under license :

No license file was found, but licenses were detected in source scan.

/* This will be more informative in a later version. */

Found in path(s):
* /opt/cola/permits/1460468423_1667577396.9698634/0/sqlite-amalgamation-3390400-1-zip/sqlite-amalgamation-3390400/shell.c

No license file was found, but licenses were detected in source scan.

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option

```
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite
 is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option
 then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the
 Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
```

** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can
 be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided. This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation
 statistics are
** disabled, the following SQLite interfaces become non-operational:
**
**   [sqlite3_hard_heap_limit64()]
**   [sqlite3_memory_used()]
**   [sqlite3_memory_highwater()]
**   [sqlite3_soft_heap_limit64()]
**   [sqlite3_status64()]
**   )^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.

** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
**
 ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then
 each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum
 allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the

** memory pointer is not NULL then the alternative memory

** allocator is engaged to handle all of SQLites memory allocation needs.

** The first pointer (the memory pointer) must be aligned to an 8-byte

** boundary or subsequent behavior of SQLite will be undefined.

** The minimum allocation size is capped at 2**12. Reasonable values

** for the minimum allocation size are 2**5 through 2**8.</dd>

**

** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>

** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a

** pointer to an instance of the [sqlite3_mutex_methods] structure.

** The argument specifies alternative low-level mutex routines to be used

** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of

** the

 content of the [sqlite3_mutex_methods] structure before the call to

** [sqlite3_config()] returns. ^If SQLite is compiled with

** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then

** the entire mutexing subsystem is omitted from the build and hence calls to

** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will

** return [SQLITE_ERROR].</dd>

**

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>

** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which

** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The

** [sqlite3_mutex_methods]

** structure is filled with the currently defined mutex routines.)^

** This option can be used to overload the default mutex allocation

** routines with a wrapper used to track mutex usage for performance

** profiling or testing, for example.   ^If SQLite is compiled with

** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then

** the entire mutexing

 subsystem is omitted from the build and hence calls to

** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will

** return [SQLITE_ERROR].</dd>

**

** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>

** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine

** the default size of lookaside memory on each [database connection].

** The first argument is the

** size of each lookaside buffer slot and the second is the number of

** slots allocated to each database connection.)^ ^(SQLITE_CONFIG_LOOKASIDE

** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]

** option to [sqlite3_db_config()] can be used to change the lookaside

** configuration on individual connections.)^ </dd>

**

** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>

** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is

** a pointer to an [sqlite3_pcache_methods2] object. This object specifies

** the interface to a custom

page cache implementation.)^

** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>

**

** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>

** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which

** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of

** the current page cache implementation into that object.)^ </dd>

**

** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>

** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite

** global [error log].

** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a

** function with a call signature of void(*)(void*,int,const char*),

** and a pointer to void. ^If the function pointer is not NULL, it is

** invoked by [sqlite3_log()] to process each logging event. ^If the

** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.

** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is

** passed through as the first parameter

 to the application-defined logger

** function whenever that function is invoked. ^The second parameter to

** the logger function is a copy of the first parameter to the corresponding

** [sqlite3_log()] call and is intended to be a [result code] or an

** [extended result code]. ^The third parameter passed to the logger is

** log message after formatting via [sqlite3_snprintf()].

** The SQLite logging interface is not reentrant; the logger function

** supplied by the application must not invoke any SQLite interface.

** In a multi-threaded application, the application-defined logger

** function must be threadsafe. </dd>

**

** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI

** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.

** If non-zero, then URI handling is globally enabled. If the parameter is zero,

** then URI handling is globally disabled.)^ ^If URI handling is globally

** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],

** [sqlite3_open16()]

 or

** specified as part of [ATTACH] commands are interpreted as URIs, regardless

** of whether or not the [SQLITE_OPEN_URI] flag is set when the database

** connection is opened. ^If it is globally disabled, filenames are

** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the

** database connection is opened. ^(By default, URI handling is globally

** disabled. The default value may be changed by compiling with the

** [SQLITE_USE_URI] symbol defined.)^

**

** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN

** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer

** argument which is interpreted as a boolean in order to enable or disable

** the use of covering indices for full table scans in the query optimizer.

** ^The default setting is determined

** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"

** if that compile-time option is omitted.

** The ability to disable the use of covering indices

 for full table scans

** is because some incorrectly coded legacy applications might malfunction

** when the optimization is enabled. Providing the ability to

** disable the optimization allows the older, buggy application code to work

** without change even with newer versions of SQLite.

**

** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]

** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE

** <dd> These options are obsolete and should not be used by new code.

** They are retained for backwards compatibility but are now no-ops.

** </dd>

**

** [[SQLITE_CONFIG_SQLLOG]]

** <dt>SQLITE_CONFIG_SQLLOG

** <dd>This option is only available if sqlite is compiled with the

** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should

** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).

** The second should be of type (void*). The callback is invoked by the library

** in three separate circumstances, identified by the value passed as the

**

 fourth parameter. If the fourth parameter is 0, then the database connection

** passed as the second argument has just been opened. The third argument

** points to a buffer containing the name of the main database file. If the

** fourth parameter is 1, then the SQL statement that the third parameter

** points to has just been executed. Or, if the fourth parameter is 2, then

** the connection being passed as the second parameter is being closed. The

** third parameter is passed NULL In this case. An example of using this

** configuration option can be seen in the "test_sqllog.c" source file in

** the canonical SQLite source tree.</dd>

**

** [[SQLITE_CONFIG_MMAP_SIZE]]

** <dt>SQLITE_CONFIG_MMAP_SIZE

** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values

** that are the default mmap size limit (the default setting for

** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.

** ^The default setting can be overridden by each database connection using

** either

 the [PRAGMA mmap_size] command, or by using the

** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size

** will be silently truncated if necessary so that it does not exceed the

** compile-time maximum mmap size set by the

** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^

** ^If either argument to this option is negative, then that argument is

** changed to its compile-time default.

```
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
**
 bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer.  The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option.  New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
**
 [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
```

** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that
 its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is
 never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/

Found in path(s):
* /opt/cola/permits/1460468423_1667577396.9698634/0/sqlite-amalgamation-3390400-1-zip/sqlite-amalgamation-3390400/sqlite3.h
No license file was found, but licenses were detected in source scan.

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the

** [threading mode] to Single-thread. In other words, it disables

** all mutexing and puts SQLite into a mode where it can only be used

** by a single thread.   ^If SQLite

 is compiled with

** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then

** it is not possible to change the [threading mode] from its default

** value of Single-thread and so [sqlite3_config()] will return

** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD

** configuration option.</dd>

**

** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>

** <dd>There are no arguments to this option. ^This option sets the

** [threading mode] to Multi-thread. In other words, it disables

** mutexing on [database connection] and [prepared statement] objects.

** The application is responsible for serializing access to

** [database connections] and [prepared statements]. But other mutexes

** are enabled so that SQLite will be safe to use in a multi-threaded

** environment as long as no two threads attempt to use the same

** [database connection] at the same time. ^If SQLite is compiled with

** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option

 then

** it is not possible to set the Multi-thread [threading mode] and

** [sqlite3_config()] will return [SQLITE_ERROR] if called with the

** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>

**

** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>

** <dd>There are no arguments to this option. ^This option sets the

** [threading mode] to Serialized. In other words, this option enables

** all mutexes including the recursive

** mutexes on [database connection] and [prepared statement] objects.

** In this mode (which is the default when SQLite is compiled with

** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access

** to [database connections] and [prepared statements] so that the

** application is free to use the same [database connection] or the

** same [prepared statement] in different threads at the same time.

** ^If SQLite is compiled with

** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then

** it is not possible to set the

 Serialized [threading mode] and

** [sqlite3_config()] will return [SQLITE_ERROR] if called with the

** SQLITE_CONFIG_SERIALIZED configuration option.</dd>

**

** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>

** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is

** a pointer to an instance of the [sqlite3_mem_methods] structure.

** The argument specifies

** alternative low-level memory allocation routines to be used in place of

** the memory allocation routines built into SQLite.)^ ^SQLite makes

** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can
 be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided. This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation
 statistics are
** disabled, the following SQLite interfaces become non-operational:
**
**   [sqlite3_hard_heap_limit64()]
**   [sqlite3_memory_used()]
**   [sqlite3_memory_highwater()]
**   [sqlite3_soft_heap_limit64()]
**   [sqlite3_status64()]
**   )^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page

** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
**
 ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then
 each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum
 allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values

** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
** the
 content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing
 subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom
 page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which

** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter
 to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()]
 or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices

for full table scans

** is because some incorrectly coded legacy applications might malfunction

** when the optimization is enabled. Providing the ability to

** disable the optimization allows the older, buggy application code to work

** without change even with newer versions of SQLite.

**

** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]

** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE

** <dd> These options are obsolete and should not be used by new code.

** They are retained for backwards compatibility but are now no-ops.

** </dd>

**

** [[SQLITE_CONFIG_SQLLOG]]

** <dt>SQLITE_CONFIG_SQLLOG

** <dd>This option is only available if sqlite is compiled with the

** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should

** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).

** The second should be of type (void*). The callback is invoked by the library

** in three separate circumstances, identified by the value passed as the

**

 fourth parameter. If the fourth parameter is 0, then the database connection

** passed as the second argument has just been opened. The third argument

** points to a buffer containing the name of the main database file. If the

** fourth parameter is 1, then the SQL statement that the third parameter

** points to has just been executed. Or, if the fourth parameter is 2, then

** the connection being passed as the second parameter is being closed. The

** third parameter is passed NULL In this case. An example of using this

** configuration option can be seen in the "test_sqllog.c" source file in

** the canonical SQLite source tree.</dd>

**

** [[SQLITE_CONFIG_MMAP_SIZE]]

** <dt>SQLITE_CONFIG_MMAP_SIZE

** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values

** that are the default mmap size limit (the default setting for

** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.

** ^The default setting can be overridden by each database connection using

** either

 the [PRAGMA mmap_size] command, or by using the

** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size

** will be silently truncated if necessary so that it does not exceed the

** compile-time maximum mmap size set by the

** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^

** ^If either argument to this option is negative, then that argument is

** changed to its compile-time default.

**

** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]

** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE

** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is

** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
**
 bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
**
 [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that

its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is
 never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain.
**
****
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
**   May you do good and not evil.
**   May you find forgiveness for yourself and forgive others.
**   May you share freely, never taking more than you give.
**
****
**
** This file
 contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.

```
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done.  The default
** implementation uses Posix Advisory Locks.  Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division.  PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT.  New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**   *  General-purpose declarations and utility functions.
**   *  Unique file ID logic used by VxWorks.
**   *  Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory
 Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
**   *  sqlite3_file methods not associated with locking.
**   *  Definitions of sqlite3_io_methods objects for all locking
**      methods plus "finder" functions for each locking method.
**   *  sqlite3_vfs method implementations.
**   *  Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   *  Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
```

Found
 in path(s):
* /opt/cola/permits/1460468423_1667577396.9698634/0/sqlite-amalgamation-3390400-1-zip/sqlite-amalgamation-3390400/sqlite3.c

1.13 direct3d 10.0.17763.2989

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1.14 direct3d 10.0.17763.2931

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1.15 newtonsoft-json 13.0.3
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1.16 sqlite 3.43.2

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1.17 .net 6.0.0

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.13, October 13th, 2022

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John R. Hauser
2018 January 20

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```xml
<Project Sdk="Microsoft.Build.NoTargets">

 <UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />

 <Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
  <PropertyGroup>
   <TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
  </PropertyGroup>

  <!--
   Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
   its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
   in the dotnet home directory.
  -->
  <ItemGroup>
   <TpnRepo Include="dotnet/runtime" />
   <TpnRepo Include="dotnet/aspnetcore" />
   <TpnRepo Include="dotnet/installer" />
   <TpnRepo Include="dotnet/roslyn-analyzers" />
   <TpnRepo Include="dotnet/templating" />
   <TpnRepo Include="dotnet/winforms" />
   <TpnRepo Include="dotnet/wpf" />

   <!--
     Additional repos that should be included but don't have any
third-party-notices files:
      dotnet/efcore
      dotnet/emsdk
      dotnet/extensions
      dotnet/icu
      dotnet/sdk
      dotnet/windowsdesktop
   -->

   <TpnRepo Condition="'%(TpnRepo.Branch)' == ''" Branch="main" />

   <PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
   <PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
```

```
  <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
  <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
  <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
</ItemGroup>

<RegenerateThirdPartyNotices
 TpnFile="$(TpnFile)"
 PotentialTpnPaths="@(PotentialTpnPath)"
 TpnRepos="@(TpnRepo)" />

<Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>

</Project>
```

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https://github.com/madler/zlib
https://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.13, October 13th, 2022

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By Sean Eron Anderson
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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
   <!-- Needed for CMakeProjectReference -->
   <RequiresProcessIsolation>true</RequiresProcessIsolation>
   <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
   <Compile Include="Program.cs" />
   <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
   <Compile Include="../../ServerContracts/Server.Contracts.cs" />
   <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
   <CMakeProjectReference Include="../../NativeServer/CMakeLists.txt" />
   <ProjectReference Include="$(TestLibraryProjectPath)" />
 </ItemGroup>
</Project>
```

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Mesa 3-D graphics library
Version: 7.0

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jar/bayern/steinbrecher/jzlib/GZIPHeader.java
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jar/bayern/steinbrecher/jzlib/GZIPInputStream.java
* /opt/cola/permits/1892522327_1706083831.677597/0/jzlib-1-1-4-sources-4-
jar/bayern/steinbrecher/jzlib/DeflaterOutputStream.java

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* /opt/cola/permits/1892522327_1706083831.677597/0/jzlib-1-1-4-sources-4-
jar/bayern/steinbrecher/jzlib/Inflate.java
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jar/bayern/steinbrecher/jzlib/ZStream.java
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jar/bayern/steinbrecher/jzlib/InfCodes.java

* /opt/cola/permits/1892522327_1706083831.677597/0/jzlib-1-1-4-sources-4-
jar/bayern/steinbrecher/jzlib/ZStreamException.java

* /opt/cola/permits/1892522327_1706083831.677597/0/jzlib-1-1-4-sources-4-
jar/bayern/steinbrecher/jzlib/StaticTree.java

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1.21 zlib 1.3

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and Parent component details for Windows 2019
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(FYDIBOHF23SPDL__substg1.0_0076001F*N__substg1.0_0077001F*37R__substg1.0_0078001F*S__substg1.0_
007D001F*68%4$T)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-

MMALAYAN<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.pReceived:

from CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17)

by DM4PR11MB5407.namprd11.prod.outlook.com with HTTPS; Tue, 20 Aug 2024

12:38:29 +0000

Authentication-Results: dkim=none (message not signed)

header.d=none;dmarc=none action=none header.from=cisco.com;

Received: from SA2PR11MB4793.namprd11.prod.outlook.com (2603:10b6:806:fa::8)

by CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17) with

Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.7875.19; Tue, 20 Aug

2024 12:38:28
 +0000

Received: from SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef]) by SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef%4]) with mapi id 15.20.7875.019; Tue, 20 Aug 2024

12:38:28 +0000

Content-Type: application/ms-tnef; name="winmail.dat"

Content-Transfer-Encoding: binary

From: "Aman Kothari (amakotha)" <amakotha@cisco.com>

To: "Marimuthu Malayandi (mmalayan)" <mmalayan@cisco.com>

CC: "Salil G K (sagk)" <sagk@cisco.com>

Subject: License URLs and Parent component details for Windows 2019 LTSC image

Thread-Topic: License URLs and Parent component details for Windows 2019 LTSC

image

Thread-Index: AQHa8v020JWnR34fHE2Oj3tu5q9IEw==

Date: Tue, 20 Aug 2024 12:38:27 +0000

Message-ID:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

Accept-Language: en-US

Content-Language: en-IN

X-MS-Has-Attach: yes

X-MS-Exchange-Organization-SCL: 1

X-MS-TNEF-Correlator:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

MIME-Version:
 1.0

X-MS-Exchange-Organization-MessageDirectionality: Originating

X-MS-Exchange-Organization-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-Organization-AuthAs: Internal

X-MS-Exchange-Organization-AuthMechanism: 04

X-MS-Exchange-Organization-Network-Message-Id:

ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-PublicTrafficType: Email

X-MS-TrafficTypeDiagnostic:

SA2PR11MB4793:EE_|CY8PR11MB7747:EE_|DM4PR11MB5407:EE_

Return-Path: amakotha@cisco.com

X-MS-Exchange-Organization-ExpirationStartTime: 20 Aug 2024 12:38:28.5883

(UTC)

X-MS-Exchange-Organization-ExpirationStartTimeReason: OriginalSubmit

X-MS-Exchange-Organization-ExpirationInterval: 1:00:00:00.0000000

X-MS-Exchange-Organization-ExpirationIntervalReason: OriginalSubmit

X-MS-Office365-Filtering-Correlation-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-AtpMessageProperties: SL

X-M365-Tenant-Cisco-ID: d8eb5f98-55ca-42f7-92f6-452cfa7add59

X-Microsoft-Antispam:
 BCL:0;ARA:13230040|366016|41050700001;

X-Forefront-Antispam-Report:

CIP:255.255.255.255;CTRY:;LANG:en;SCL:1;SRV:;IPV:NLI;SFV:NSPM;H:SA2PR11MB4793.namprd11.prod.o
utlook.com;PTR:;CAT:NONE;SFS:(13230040)(366016)(41050700001);DIR:INT;

X-MS-Exchange-CrossTenant-OriginalArrivalTime: 20 Aug 2024 12:38:27.9860

(UTC)

X-MS-Exchange-CrossTenant-FromEntityHeader: Hosted

X-MS-Exchange-CrossTenant-Id: 5ae1af62-9505-4097-a69a-c1553ef7840e

X-MS-Exchange-CrossTenant-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-Network-Message-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-CrossTenant-MailboxType: HOSTED

X-MS-Exchange-CrossTenant-UserPrincipalName:
3w+lEr5Syz6Ul7XhnjV+ziQoyeAButBZPWvDHcUEHStczQepJ216vYEgy1ezPTqd4EYOSjEcvIT2xgXlBIYKgA
==

X-MS-Exchange-Transport-CrossTenantHeadersStamped: CY8PR11MB7747

X-MS-Exchange-Transport-EndToEndLatency: 00:00:02.0031318

X-MS-Exchange-Processed-By-BccFoldering:
 15.20.7875.019

X-Microsoft-Antispam-Mailbox-Delivery:

 ucf:0;jmr:0;auth:0;dest:I;ENG:(910001)(944506478)(944626604)(920097)(425001)(930097)(140003);

X-Microsoft-Antispam-Message-Info:

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5GCmlLHcQ==

__substg1.0_007F0102*WQ__substg1.0_0C190102*5=Y__substg1.0_0C1A001F*\.__substg1.0_0C1D0102*:<]rod
.outlook.com>@B+//o=ExchangeLabs/ou=Exchange
 Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f1485893feee6a76ad1ba6-
amakothaAman Kothari (amakotha)EX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
AMAKOTHA__substg1.0_0C1E001F*`__substg1.0_0C1F001F*;?a__substg1.0_0C2D0102*e__substg1.0_0C2E01
02*>@fEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-AMAKOTHALX
LX
Salil G K
(sagk)__substg1.0_0E02001F*__substg1.0_0E03001F*1Qg"__substg1.0_0E04001F*h>__substg1.0_0E05001F*B
Di
Marimuthu Malayandi (mmalayan)InboxLicense URLs and Parent component details for Windows 2019 LTSC
image)EUzgbOSIq:(Zi%:(Zi%__substg1.0_0E1D001F*j__substg1.0_0E4C0102*CGm__substg1.0_0E4D0102*n__
substg1.0_0E4E0102*FHo__substg1.0_0E580102*p__substg1.0_0E590102*EMq__substg1.0_0F030102*r__subst
g1.0_1000001F*JLs:(Zi%:(ZiAG~M{nHHi
 Marimuthu,

As per our discussion over Webex, please find herewith links to Licenses, Third Party notices and Image details for Windows 2019 LTSC image:

https://hub.docker.com/r/microsoft/windows-servercore

https://3rdpartysource.microsoft.com/

https://www.microsoft.com/en-us/legal/third-party-notices

https://github.com/microsoft/containerregistry/tree/main/legal

Have also attached image depicting parent component.

This is in reference to -

SBOM: https://corona.cisco.com/releases/331413/images/1186257

TPSC scan: https://tpscompliance.cisco.com/compliance/product-releases/product/1343902673/release/2143298352/commercial-bom

Please let know if any other details are required.

Thanks,

Aman

bLZFu*
rcpg1252Chtml11bid0
'ch
set0 PVUUQW2U3FYkcu ;B7
134R`cP dL364 *\9 < x:o="Ipn:hesL-m

`so-]m

e!"w /!?# d"m#@tp://U#.$'.!/!/04/ (m"&Gw*`.w3.g/TR/REC-40">cAead+k

-}6__substg1.0_10090102*__substg1.0_1035001F*KO__substg1.0_120B0102* __substg1.0_300B0102*NP<

 lna#@G at"0 t#@M$6 W% 15 (" qPum)+ /s0tyle4//!-B-

/* F! Diti */

@-fne

0{95$ ly:"C0Pb!0h"`9

n$`pe-1:p023=06==a`}8{9:A0$`</=310pCV>7qSG5r7

p.M!PNl, liFZ}PvFX?*:0cmA?#z"0yB.00J.:A3",sqKrAm!P-Gg0p#nd1SxO1N|?pP#!`ngPg"0EN-

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w0&;xk}%+|@G1@`#@r+{! [6},pfFg4~85A<zxS@OTH&i;mu;u,5,o^pu@w?5&<

(

8w^/A U aG.u8avWebPFPjQDE12#P;{C 1 L"FThi2P

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?//?O_!

,-#?O1OO&'5)*,0.//?@aS0@Ocx`ppZ`jj1PX!_1P./?OI?JOK_15689:/;?<O=_>o?@W?BC[`r^Qn"-

OPQ/R?SOT_UoV\XYZ[\]nOoSSBOM:

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 Fr?GAaF F

`quFH_ohpks,Awn_obOc_doeghWij0/vSg5p/dy"74}<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2P

R11MB4793.namprd11.prod.outlook.com>bLTqGo09

js

+QWY 13579;=GIKSU]'?"B@Q?*%)-ACE2[:B/Marimuthu Malayandi

(mmalayan)__substg1.0_30140102*__substg1.0_36770102*IYJ__substg1.0_3FFA001F*<__substg1.0_3FFB0102*

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(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-

MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

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(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-MMALAYANAman

Kothari (amakotha)Aman Kothari

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1.0_4034001F*R__substg1.0_4035001F*Z\R-MMALAYAN8357352A9AC74291872DEE4575F68898-

MMALAYANAman

 Kothari (amakotha)Marimuthu Malayandi

(mmalayan)amakotha@cisco.comamakotha@cisco.commmalayan@cisco.com__substg1.0_4038001F*.__substg1.0

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001F*A$__substg1.0_5D0A001F*$__substg1.0_5D0B001F*bd$mmalayan@cisco.comamakotha@cisco.commmal

ayan@cisco.combZ@U>sip:amakotha@cisco.comp;I%xOM%Op;I%xOM%OXxOt__substg1.0_5D160102*__subs

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 }

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(Build 7875.0), Stage=H4;UP=1__substg1.0_8016001F*
__substg1.0_8017001F*iyb__substg1.0_8018001F*J__substg1.0_8019001F*rt&0;DP=1;QT=9;CPBT=2001:420:5
448:1301:c5f:d8ba:9966:de692603:10b6:806:fa::8SA2PR11MB4793.namprd11.prod.outlook.com04BCAT=NotSur
eDueToNoApplicableRul__substg1.0_801A001F*N__substg1.0_801E001F*sw__substg1.0_801F001F*__substg1.
0_8020001F*vx

 !"#$%&'()*+,-
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 @A\d"   P=@$@$@$@$@$@$@$@$@$@$@E"py$@$@$@$@$@$@$@$@$@$@$@A   E)
$@$@$@$@$@$@$@$@$@$@$@$PP(H$@$@$@$@$@$@$@$@$@$@x   @ @A\d"
P=@$@$@$@$@$@$@$@$@$@$@E"py$@$@$@$@$@$@$@$@$@$@$@A   E)
$@$@$@$@$@$@$@$@$@$@$@$PP(H$@$@$@$@$@$@$@$@$@$@x   @ @A\d"
P=@$@$@$@$@$@$@$@$@$@$@E"py$@$@$@$@$@$@$@$@$@$@$@A   E)
$@$@$@$@$@$@$@$@$@$@$@$PP(H$@$@$@$@$@$@$@$@$@$@%A9G'r03_e'>
(!xRdH:(eJ=/szWCK%d2WVF@fdA#n,Z($@$@$@$@$@$@$@$@Ab
Y;%k)eIdre)Q>Ed}[t\l<<%%$!$
51C'kV8BB|rYlSV*Uce dddg<()))n`<;HHHHHH R"`e%s{zqy@B!%NC){uMFJ DI(]I*IJ|\~ay^yiv/0hwZ>
*Upw3i'|2P4gywe0
(VX!#GV@7n,_|tM6l2w^}U[cK   @4;,
yq`Z\rPq+?N;V~:`6gYvlR[Ct2RLTTI=O*&[0^'\szJ_^RSSLpA,GP
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\P+`_zzRh$pc<C]_SN}alG*2Wp}7#id2d{~D0 ~qiRc
gCI$@$@$@$Pd PdI@zRJiSX/b<}Qrecb~AmV w}'|$&&F]6B&X{=>jVyff<wb)R8Y@LSFMrI $V1kWYjRmyV
@$vU
otDS& &@A /G$f#-[~AHUVb@8
 pKMeA\tE0C4(
0saVZ$E/"Vw'F V a.|aJ>
w^'5,-K+?!$.[2Js!.1CG)_:sh/7\;G pQ<O8 mV+?}W 4TRW{

$Gp=;G]^
| yb@-K.k
g}&H=b#%`U@(1<jsN+0adYtqH6yA:(GNp%{E|!K
e<Cg! @9N?jw"# "
QH
.=h
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6aT|ytNG<;D;8+YgTuSJe%2yRfMg1I # /6U=z3@"F=x)IvDupTz)Ws@T1 lm(d# *FR.K$#p'Ju4K_WOH

Y6\z(%`RSSN`{!dOE'{e}FX~Z$)

0obJ2$"^x i#On:g4b9 3e`!eG# (|(k @8\Y

vZmB?{Gpm(Jt@hr32j Q+T O+A<^U6a=8(p[2>

*1 KPF$@$PP(\%0091KLpi~x;M;4*aAFFu?`v8-*HkOfiw~Dfj#WAWWa3 ~oA0

7 +cP[79U-,# Hyfqc9Oc-k!i_O#3//f|3[o@p

kUF$@$P0@^- ;wl82 #pzg+f]wu#-sU2|p{L}>s4igbc.6FoV(H}Z |^5o[:/_.[n

4cGu!6jI_MN;SC[v}GH[of|S7f3\hktG^Hol4

;L[R"?^=Q#>S_B?U ={ov9c}x!pU&>bD]}1Vs{~$wolf\5jgaq;SU[onw+Bgh5Klew

,

k[gxSXGS $XqY+X+pOo{(3lp^+)Ns~:`OdPs5Sz iJ-J4\5s!)WL<wi[<v9{eIJwV

p@X\,5mu{m0tdgI~}nO-T

:4S7;r q

)&L4p6J^>k{14

 !)f @HB p&93N;MwjGH/D@s1

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fFb3fbh)3#/$of]{2\#G/,+Wt|A n=4h P:{ 1$EQA uoN<x{O>1k8xp?\pVS8RRR7vZ=AxpuwW^ipx2Ew_8Vu!#! ;
Kxmu=y

l1cX/#<b}L;cg?<w9U_?8#//GDTS~gy~<7xi+N$ z

qd"^h})6O?qy%[N4Bx;e\{+K5/-C! rcrd=r3[*,? r(6?O2KU

D&Y/;(8FVx\i9u>m!1YtAv

 (f}7G6mnt@F0:

]p,_F

_-W% JxQ=q7 ERJ:'w[BGNcQlmscZ`Cq,3%J50#!8aq6]?X9U]7sc0-

V22846,pO>p^P}K]}qM-wCkBG{NpW<p1S}xFxV /;!]v198wa5]`sgL+LX`J.y5?>CTuq^fm:6diVxt)1='e;a$>.-

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dWm\CIHBI$@G9M<L)YdP;_~O=&g;V 'T%gU(c u+,<3N}19>>>^!0LNVWm~fw1cO$Vh{@lsl:CHN8

9evfO<9!ALef9+KXuBn{O$|~GwgCa)SBB/Vff

s} Xn

!L_|>za1#tmvi}ei,?OO4*2sHf[<{&~AVJJZj~>Emer/.P\,eR^N.--UhM\q@=eHH)%7]\Nl> W]v-

+WUkUon]K*QnAG!XYRVU! ekyeWZN$@$)

q$@1GPpf`E*Vh9MNjUSH70U~[3u28W!7frh35(q38B!

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)B';p~LI>fsl ,>!jVL@i}-vfo8h%nTVl?ff$xMv[)IeeG

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<Z,\;8{B

803B;!At\ $ERZ@H8Bm>6;N<DkP|ya %V-`Yge}Fh N>3M3QcB;x|60K@T"yj9(HgH`MC\>38/f#b%O^VxXw

~N[q{pGOk]G=^ Lb+nA@pC^_tEo,7mBxM$/(+c4Wwm <{HH

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r~+8MJ$~ *LzLnQK(&G)qYRrFp7u|nI)_\F$!Xr%; _R`Oh%6Vz97MDDWZ<}SEkqR!uT

Ww_UOj%Z]symB@jcb9D=RZ5[.yLOVA-

UI[+mmSx~}]$,8D+e}\r9&imH+Yn\1IN8O8lVVgrI$fn)33~Uk/HfdWG0[Sd1]\?y0g[kPe{dsz$Tuk'0~sg?n/mIH1}

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lEvdGw=E]ZN:GhLJ]x6%hEn379loY]^E*$O gZ5/mA$Xk%dn)]*eY^Ju7[RJ oy3}wH$@%`r;WD

p~eLJ$<.tr7bga1cb}f"?3D]-A1BN&S8!mQ:?6mj(,]SX +C8Uy5nX0Woz*

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VV"&~S)QsTd=jUjTKlM{a{HcV9#mwj}~&9SQ"6R*$[mVvU7m,ANWrJ[[wSh$@$@'@A

 @0 ec.A.N0%leK%Mh)N339DGx7f;0

*

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S^Vip0olZS5NZ=h^\mY!L`tF8+dP=lB^ Y'DU$?(U*cjKPJ1tOd^0>R*T J&{Ko 6eNY

,~J?] }.9hyywfla+~ Y2[%+a=+|E, @_$@$s0+s7o uLBSqX>}EcvYIKutep*8ap}X[

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t#WY3s~ 2rL:E

5hD:X^yrgK2Y~m 0 dU

V' X&*p>:AUO'7|c%16

8p$-^1j3+VHXA:-g]Cq,t=@G

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$rIS"eiZyi;JJOoGr:J$cU)_^C$[f`Xp ;Wx}Ug%?2^

8qzrRSJ7sq@ol.S*$@$@PH

SN9E;Z8 yn6I@p<gwH"{&_X#W3x=p (B8($-;g|e$dB Hfln5 %$$${a>o=BB /-/IZm.~*aCc>|110*8rtu__

u{)|*)fV,dg^&;UW%z9umEzD"`L<\FUpuzvcliX"*e(Tb\;zv_wuUF>L:kvstrqg79*;FzahvGSIir5h+P6gH;$[YG~\7W

^JCCoQ$r{pWybdjQjeEK4m@psH1TI,vmzA)[Qp6 A ~q1xV% J*Iztyt+.0i

?Z`c)A^iiiDooowxGJAPp@9#

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L]vVp)))sYIM}O2E6G

G-`_!|}gTnZB2l!Q+xomN<Z|'C^*_'}*/]PafYNisvY+'uW!6|Yva]S

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i[]VU+/U}? g/6MH

Y]&VVI/M'kC^%Uy;=6p]>kbM]k-8U6n,;w(7\=0h-2i@3'4

   P (L/^,pzOquUVYdppk%

B PH9nsAnAi$=4+0h>1D$SFhP_pOuST)

!9{]y|,o#l[x!:A0J&l7ZG;Va<+r"5z;w+P)AQuo&GRQa`i6d%*x:1ty\xU$CT.M;w#fy n +'2tm3Jifx>N_s$yt]

7>IgyiJx<

K? *D!+2v|t6ER:

[O/{d) 7\:_5+#Kf1mSQ,VlQ!f--|%D4;RoAHpy9VYtx:EK!'dVTBnh_"[H`u=mMqr%YUROh6d KR9HH"#@A 2n<H

 'Mr~:G>`6%

2ipd"Lna,C<;hpye-[466%KUYz_~ep

Rj a" T lEr~D| ^wy|G!D8rkHZY

rSHw}goqpB !s(Z`wBuj +^ziZ)YEA

+r"]|"&%{i~C[~(:\SAn]zsAtQp"lNVY*pBCKfTc*Qp//M1#?z]qXOT'gHA9|)<R@

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I[y2 rsm iC# #f/uA]IuO#

6g2!LH^D6x^xn8RC)t>t(9cP{Wt M}

`FI/]h8d `rC9yR"y]ko-[6L@hAKr`$}v:EZ!L/o]}w1R/bb_8N:C c0

YwJ5sO;3UN|J

'{=r>aV_urSs

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^7U5oIJ*u=]VJZl1:YnXN/NJYbUc~]{*Kqd)&y'6fOJY5ZLd[KciU.5dhmbj9%]{ujWKH$ d?a

XL$@{mBlx!E#Lj_lg9=+!Q,oF? O8Q[XKTX&CP]o/v.s"<:Pu~J+

O$.B"EmGyT?6p{uB=9-[9I'L`#i|=Fa"W~Dkva;/A

Dm1*AWZ^bLS9Vm!Xw

$zq1VIeG'q!|BNIaNOww%V(H]%`z(S&Z/M@d@H!+SxzzxxuBmyPUGE@r`Tp|cv=$o %CZ`n7>b|@$_t}zxS

*]j^91ElU9BLu3g |fQW>rwhZqn,kv|C8!TU F$@$?i @Agv~(<f:}S1{4{$s>|xP,wn[nq~O9

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L)+Lz{Gsj23 >Z;[qmXyYBe{$@E]gY1rCOy^ m7_SPdMD# =%coH D@(

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Gu%u(+`bZ 8%`\:"q|%T/13g"S
,An?+G?c
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/$Ge?AnXIG<!Z)2
^5(D`nX   Eb(3<@e$@$@$@$@$@$@$@$@$p(S"   ?(:$@$@$@$@$@$@$@$@$@$@$P P('
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1CV*US^jT^]j%mq$$@$@$@$@$@$@$@$PP(d%[n*.Nk&k-
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3!8@BuYA-N8N3.'4?l$@$@$@$@$@$@$@T8 KH

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h|GENkq?r~s-)+ FUTnIaCh`?#

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*^X'MNtc=58^g8_Z"??yd]v{"EN4t

Zc"#zK.6l}Eo]LUlYZHC%K0'Y$cc<

.g8y7xlsD3<xP-)PnSa+g^gT_jU

7sy:"}{#`?Cdzk1^u BxMx-m:k08.<L-[j?P}C/a, -=TVM{uV6bs;~n+vdn0%N:nAT17eLl08"30?a0&0a_010

aL`0`ca0/a~0&0a_010 aL`0OLLdR"G ad@d!2a;%s;@w+wy}3eliJ4|Wm$gd'uS'Pv2P4|H/H||waF

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77P777%:

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1.24 c-ares 1.10.1

1.24.1 Available under license :

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1.25 zlib 1.3.101.76

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1.26 curl 7.79.1-DEV

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1.27 sql-server 4.0.17763.1

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More information: http://google-opensource.blogspot.jp/2011/04/introducing-cityhash.html

By Geoff Pike and Jyrki Alakuijala, Software Engineering Team, Google

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1.29 curl 8.7.1

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1.30 7zip 21.07

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Igor Pavlov

1.31 sevenzipextractor 1.0.16

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1.32 tcpdump 10.0.20348.2527

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member

of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes

3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes
3.3.0	3.2	2012	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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The Unicode Standard, Unicode Character Database, Version 10.0.0

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The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
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Ext headers   GL/glext.h   Khronos
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****

----
include/GL/gl.h :

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conveying of source, or (2) access to copy the
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alternative is allowed only occasionally and noncommercially,
and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
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Corresponding Source.  Regardless of what server hosts the
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e) Convey the object code using peer-to-peer transmission, provided

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Mesa 3-D Graphics Library v21.0.3

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```
Component   Location   License

Main Mesa code   src/mesa/   MIT
Device drivers   src/mesa/drivers/*   MIT, generally

Gallium code   src/gallium/   MIT

Ext headers   GL/glext.h   Khronos
                  GL/glxext.h   Khronos
                  GL/wglext.h   Khronos
                  KHR/khrplatform.h   Khronos
```

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*


----
include/GL/gl.h :


Mesa 3-D
 graphics library

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----
include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h :

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## libpng v1.6.40

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# 1.38 driver install frameworks api (difxapi) 2.1

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attach,authentication-resultsNx-ms-office365-filtering-correlation-id4x-ms-traffictypediagnostic6x-forefront-
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authsource>OriginalInferenceClassificationHGriffinInferenceClassificationResult:InferenceClassificationReason2Cl
assificationDiagnostics2ConversationContributions,ConversationWasFocused4TriageHeuristicsFeatureSetBGriffin
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(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYAN<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.pReceived:
from CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17)

by DM4PR11MB5407.namprd11.prod.outlook.com with HTTPS; Tue, 20 Aug 2024

12:38:29 +0000

Authentication-Results: dkim=none (message not signed)

header.d=none;dmarc=none action=none header.from=cisco.com;

Received: from SA2PR11MB4793.namprd11.prod.outlook.com (2603:10b6:806:fa::8)

by CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17) with

Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.7875.19; Tue, 20 Aug

2024 12:38:28
 +0000

Received: from SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef]) by SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef%4]) with mapi id 15.20.7875.019; Tue, 20 Aug 2024

12:38:28 +0000

Content-Type: application/ms-tnef; name="winmail.dat"

Content-Transfer-Encoding: binary

From: "Aman Kothari (amakotha)" <amakotha@cisco.com>

To: "Marimuthu Malayandi (mmalayan)" <mmalayan@cisco.com>

CC: "Salil G K (sagk)" <sagk@cisco.com>

Subject: License URLs and Parent component details for Windows 2019 LTSC image

Thread-Topic: License URLs and Parent component details for Windows 2019 LTSC

image

Thread-Index: AQHa8v020JWnR34fHE2Oj3tu5q9IEw==

Date: Tue, 20 Aug 2024 12:38:27 +0000

Message-ID:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

Accept-Language: en-US

Content-Language: en-IN

X-MS-Has-Attach: yes

X-MS-Exchange-Organization-SCL: 1

X-MS-TNEF-Correlator:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

MIME-Version:
 1.0

X-MS-Exchange-Organization-MessageDirectionality: Originating

X-MS-Exchange-Organization-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-Organization-AuthAs: Internal

X-MS-Exchange-Organization-AuthMechanism: 04

X-MS-Exchange-Organization-Network-Message-Id:

ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-PublicTrafficType: Email

X-MS-TrafficTypeDiagnostic:

SA2PR11MB4793:EE_|CY8PR11MB7747:EE_|DM4PR11MB5407:EE_

Return-Path: amakotha@cisco.com

X-MS-Exchange-Organization-ExpirationStartTime: 20 Aug 2024 12:38:28.5883

(UTC)

X-MS-Exchange-Organization-ExpirationStartTimeReason: OriginalSubmit

X-MS-Exchange-Organization-ExpirationInterval: 1:00:00:00.0000000

X-MS-Exchange-Organization-ExpirationIntervalReason: OriginalSubmit

X-MS-Office365-Filtering-Correlation-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-AtpMessageProperties: SL

X-M365-Tenant-Cisco-ID: d8eb5f98-55ca-42f7-92f6-452cfa7add59

X-Microsoft-Antispam:
 BCL:0;ARA:13230040|366016|41050700001;

X-Forefront-Antispam-Report:

CIP:255.255.255.255;CTRY:;LANG:en;SCL:1;SRV:;IPV:NLI;SFV:NSPM;H:SA2PR11MB4793.namprd11.prod.o
utlook.com;PTR:;CAT:NONE;SFS:(13230040)(366016)(41050700001);DIR:INT;

X-MS-Exchange-CrossTenant-OriginalArrivalTime: 20 Aug 2024 12:38:27.9860

(UTC)

X-MS-Exchange-CrossTenant-FromEntityHeader: Hosted

X-MS-Exchange-CrossTenant-Id: 5ae1af62-9505-4097-a69a-c1553ef7840e

X-MS-Exchange-CrossTenant-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-Network-Message-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-CrossTenant-MailboxType: HOSTED

X-MS-Exchange-CrossTenant-UserPrincipalName:
3w+lEr5Syz6Ul7XhnjV+ziQoyeAButBZPWvDHcUEHStczQepJ216vYEgy1ezPTqd4EYOSjEcvIT2xgXlBIYKgA
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X-MS-Exchange-Transport-CrossTenantHeadersStamped: CY8PR11MB7747

X-MS-Exchange-Transport-EndToEndLatency: 00:00:02.0031318

X-MS-Exchange-Processed-By-BccFoldering:
 15.20.7875.019

X-Microsoft-Antispam-Mailbox-Delivery:

 ucf:0;jmr:0;auth:0;dest:I;ENG:(910001)(944506478)(944626604)(920097)(425001)(930097)(140003);

X-Microsoft-Antispam-Message-Info:

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.outlook.com>@B+//o=ExchangeLabs/ou=Exchange
 Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f1485893feee6a76ad1ba6-
amakothaAman Kothari (amakotha)EX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
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02*>@fEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-AMAKOTHALX
LX
Salil G K
(sagk)__substg1.0_0E02001F*__substg1.0_0E03001F*1Qg"__substg1.0_0E04001F*h>__substg1.0_0E05001F*B
Di
Marimuthu Malayandi (mmalayan)InboxLicense URLs and Parent component details for Windows 2019 LTSC
image)EUzgbOSIq:(Zi%:(Zi%__substg1.0_0E1D001F*j__substg1.0_0E4C0102*CGm__substg1.0_0E4D0102*n__
substg1.0_0E4E0102*FHo__substg1.0_0E580102*p__substg1.0_0E590102*EMq__substg1.0_0F030102*r__subst
g1.0_1000001F*JLs:(Zi%:(ZiAG~M{nHHi
 Marimuthu,

As per our discussion over Webex, please find herewith links to Licenses, Third Party notices and Image details for
Windows 2019 LTSC image:

https://hub.docker.com/r/microsoft/windows-servercore

https://3rdpartysource.microsoft.com/

https://www.microsoft.com/en-us/legal/third-party-notices

https://github.com/microsoft/containerregistry/tree/main/legal

Have also attached image depicting parent component.

This is in reference to -

SBOM: https://corona.cisco.com/releases/331413/images/1186257

TPSC scan: https://tpscompliance.cisco.com/compliance/product-releases/product/1343902673/release/2143298352/commercial-bom

Please let know if any other details are required.

Thanks,

Aman

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-}6__substg1.0_10090102*__substg1.0_1035001F*KO__substg1.0_120B0102* __substg1.0_300B0102*NP<

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w0&;xk}%+|@G1@`#@r+{! [6},pfFg4~85A<zxS@OTH&i;mu;u,5,o^pu@w?5&<

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,-#?O1OO&'5)*,0.//?@aS0@Ocx`ppZ`jj1PX!_1P./?OI?JOK_15689:/;?<O=_>o?@W?BC[ `r^Qn"-

OPQ/R?SOT_UoV\XYZ[\]nOoSSBOM:

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b@xy~/?O?/?OVPqeH@kwg`4py

 Fr?GAaF F

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R11MB4793.namprd11.prod.outlook.com>bLTqGo09

js

+QWY 13579;=GIKSU]'?"B@Q?*%)-ACE2[:B/Marimuthu Malayandi

(mmalayan)__substg1.0_30140102*__substg1.0_36770102*IYJ__substg1.0_3FFA001F*<__substg1.0_3FFB0102*

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MMALAYANAman

 Kothari (amakotha)Marimuthu Malayandi
(mmalayan)amakotha@cisco.comamakotha@cisco.commmalayan@cisco.com__substg1.0_4038001F*.__substg1.0
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001F*A$__substg1.0_5D0A001F*$__substg1.0_5D0B001F*bd$mmalayan@cisco.comamakotha@cisco.commmal
ayan@cisco.combZ@U>sip:amakotha@cisco.comp;I%xOM%Op;I%xOM%OXxOt__substg1.0_5D160102*__subs
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(Build 7875.0), Stage=H4;UP=1__substg1.0_8016001F*
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0_8020001F*vx

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https://hub.docker.com/r/microsoft/windows-servercore https://hub.docker.com/r/microsoft/windows-servercore
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lEvdGw=E]ZN:GhLJ]x6%hEn379loY]^E*$O gZ5/mA$Xk%dn)]*eY^Ju7[RJ oy3}wH$@%`r;WD

p~eLJ$<.tr7bga1cb}f"?3D]-A1BN&S8!mQ:?6mj(,]SX +C8Uy5nX0Woz*

8uvGAtr!$N^r'n6_bSM pVg}|uy0}$'

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+jEd8Gdm'K^X

kt[n3c%?2T\5ygEISv$CF|vJTy,1 Udz

2ix<Dp05"1s:e#nuAu"^$cWwL=J2,c#8dVKJG{+

VV"&~S)QsTd=jUjTKlM{a{HcV9#mwj}~&9SQ"6R*$[mVvU7m,ANWrJ[[wSh$@$@'@A

 @0 ec.A.N0%leK%Mh)N339DGx7f;0

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fxl3d91s|/;em,Usq__I.Vaf^]XcF6BU!WV:$C_W9-vYZjH`Y>gv[,;P^h(^]Y

S^Vip0olZS5NZ=h^\mY!L`tF8+dP=lB^ Y'DU$?(U*cjKPJ1tOd^0>R*T J&{Ko 6eNY

,~J?] }.9hyywfla+~ Y2[%+a=+|E, @_$@$s0+s7o uLBSqX>}EcvYIKutep*8ap}X[

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;%D;qA+6'X)HK9;.#U8oPa.?=kd,V;>!o:%^ X%Hpc9Xw_05J,I@[7 uAYu

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$rIS"eiZyi;JJOoGr:J$cU)_^C$[f`Xp ;Wx}Ug%?2^

8qzrRSJ7sq@ol.S*$@$@PH

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u{)|*)fV,dg^&;UW%z9umEzD"`L<\FUpuzvcliX"*e(Tb\;zv_wuUF>L:kvstrqg79*;FzahvGSIir5h+P6gH;$[YG~\7W

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  P (L/^,pzOquUVYdppk%

B PH9nsAnAi$=4+0h>1D$SFhP_pOuST)

!9{]y|,o#l[x!:A0J&l7ZG;Va<+r"5z;w+P)AQuo&GRQa`i6d%*x:1ty\xU$CT.M;w#fy n +'2tm3Jifx>N_s$yt]

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I[y2 rsm iC# #f/uA]IuO#

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^xyv~_*;\rCd7j1x+K;]%sC[GUB1 +& p /pG$@$e]Z-/

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z ygAakyK7Lh;X:$Z83+]UTf0c.Ix8nvgQm\+2fvI+GD)(s~@cWe

$paUzy 78?~>XkWc0`&n'_Lp ,))ZkjbvUJZZ y,{\h/8qFRsU1LDb?q6)__)VqK$A

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r.ZUpUT;vt9Zb!19PGA3^~C>14>*3fp.Ua :z)>jNf

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7$@$fGb1/b&N%J<q|)M~$6?u;

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9j*)VX:>-(*

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&w)9%4AmKN?t3gN>.7xcSN(vD/\~mnk.q/,7tq6{UNu:F;{vdYAQ/F:CcPKe{6HQsL:}tq+_ `8
"%\bgbY%ew{,'{
6>8
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g:tampVC tx/#
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!L=Z h([t5>a7 ` @_,X UFXmip
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xBp3us43 `(M('E7@JK/+l[(m! `dr #f[A0Xe:916eM'sK_A#1g`Xl#uGwax'rJxkWNom8}$@$@$@$@$@$@$p>pi+5
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j%*$/un^[|r-x:)0#g@B,z3zjor091;
y|0D0(C=$2x%p`<`T1M; rB6g11# bXz={CrO$@$@$@$@$@$@;g
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83
GcX&{`($@$@$@$@$@$@$@
 #Jg1q W%\ $
@;J?f#W7aW"QF^BP9@R^sa &*`yg$0@[o0C-?)k_
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HQ)$@$@$@$@$@$@$@'Ag3IF24a6N
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N(Z>}b)[Kie]pB8::ZL|??6l mu'1 ,hB4i>xky
uky/Em{O>qk}unAofb8BM`2o{]GSC~m{R| y!!0 48sM6PI81dP9,@{Nkxq
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{\`!aun*^}J}$<Th($@$@$@$@$@$@$@$@$@$KTB #gJ*Oc@Pd!l@@v,>uJA%-
J2dgHLW3'0Ac@@:vd.)X;+SN0   0J `ZHHHHHHHHHHHL8IW(@IA^   (Gh(G7)!
"@@Ie$@$@$@$@$@$@$@$@$@$@$@$P PnB$@$@$@$@$@$@$@$@$@$@$%E *}V$+}`R~quYZ:
{"A>m`$@$@$@$@$@$@$@$@$P^ ArFefvyq~+X+HW6ddr6;VN:@eW6(e-=eHHHHHHHHH@!HJNlI *I@

`oPC}zMOV%P "M6I    (J -Ofcx<rC FW`poB ~k`G`53 ,V#HpHHH4   7@q({OCYrPRN P\t
3GpNb9!0Ac@v2g8a*}!&g+*^SAY0   @Y`IHHHHHHHHHH
 PJ   %>&   R"@@)f3$@$@$@$@$@$@$Ft*@IDAT$@$@$@$@$Ph(KlHHHHHHHHHHHJ
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NW*Kt'Ks0w3xI:%++;_`gITYnfM)zs
:"}9y2{whLf,ZV O@o7x%5A!   D
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PZ;vL6o,|[>#=[r+VwY]g_}|(ZtlJc/P[-ChR?XF\XPb0>{+l
pIt_s !NVTZj?s.3= O#^qNWS~T#
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U~ |ie^^~;%SJ'RN"#&uV~^"|J2-3NPMw:*'%bHy$t)okG+YsUrkdr Mur|"[d2;/:^/M;du{!9|$A*U
hy};+dX,P?:H7z-jzB?W(s/+WukWV?F*hs@KqZUuN.^ia{OY%9?fS_y569f#@?v
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Vu{IF3~Ucx}z^MY>@>gc7>6Z-R}L}oP!/Hc[v{]&
  (^4/OF$P \RR.]>+ygedYzo6^BxRhuRJ$~F'EP-*HzC2"SiiI2WQdRJJUINa1
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Jip;x\|]$a~Q,2U%vra7G!2<~qj^vv{([}Q_ks\&uxhlC>W>XKF
96\[2QrrlSV,wHPpeA}@B?^,_Q9K)+]VA@pNxR^~c}q(w?Ir+_r/~"*'N&)U]p~Uca9Q}|<{29[ezcpBavYKz
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%`Rl*($*FW{QlsH^}`5B'2"AZQYX+m0@Ky^V[l.I2[W{gn1(,*'~kKzvJgeiy>LsK|fP5xa{IkfKUw+]C5iV~w~_gE
Y,*-Rm;Flt{5;C 4HJFZ+djq,P
[lE?^>:W"$Nr2/cJd]`%?%.B()#>R9IVV^y^^ cIg"qU7,(pKwK~\IrG'a
qCEJIlPXkP\axl.:>^>>i=!}j7+'^qE8^wn-
DWrniPgN}rAQ|M!2[L|[]v\g4WL<e\aze;?S|x+B?]U+)_#<PF^:+Ae$},wYskg9Q
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 m# @URtIYB03P9#%W-FpR>4>Kt@5Pc^~OcR;GnzrN}Rg2$o)UAvEV-uKiefd%*Nu-)#b)5b3R!|TiWiB-
}l)%CRV(&}N{)I_5}vA7=tizkh /~6[RJ/^DJXf
7+J)}>Gyx/Vs.)G_'e|{^&R~kuGZzu9ro,7`B!eTR~D^\\ yb>;:~OJ,zdHdXx7;kPqCO:@$R2gE5Y~2f1Ik\+1
-2zgJ_H'Ly>3!nr`yX*P
Z@".!D>}zpg t{Wp+M(obCA2Q/?V}#W>hc}.\nBH5$'R p_k2 #u&/B)on82[|6kBMU{+ r7Fa*|Q_g+AMHPZ3:K>^
b!WdWREC5Dn+Cri"W4c5z&|(6GcXVAc,<?\^ls)#]UMzF)MOXd5aKrcB\o2$tt\S;Am=9^}]3gY:<7:OZy9TkJd|Ep
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-y(w~KW,'N 3#v82F6NOpv(.Hc K}#z/W~jA<alI!]Wkq+}WcS' LH : NIi& 0L(QD2dUUw[3wt^B
m$@m@6@@']D.@ @h9m2@ @ @@ `9b@ @ @h}js@ PC
@ @ @h*M%Fy#8@ @ @.*> @ @ vF@;;a4 @ @ P Pc@ @ @@;#A0@ @ @J @ @ @ N @ @ TB@% @ @
`hg'B @ @*!Aj@ @ @hg0Fs!@ @ @ P 5 @ @ 3  @ @ J`@
 @ @\@ @ @@%0TB} @ @ @vvh. @ @ @*> @ @ vF@;;a4 @ @ P Pc@ @ @@;#A0@ @ @J @ @ @ N @ @
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@ @*> @ @ vF@;;a4 @ @ P Pc@ @ @@;#A0@ @ @J @ @ @ N @ @ TB@% @ @ `hg'B @ @*!Aj@ @
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XM5@ @ @@
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'Tr97N<)
2eut]ZjUm[-"^Z&O,=|wo~tYEC;wn3?CqY>\TM=4iSe?P @\,Br[l8x'5"31$3cr
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8VYnX1+~)yJz;Hmw>(cueaE0^/BCJa)hBK"""Te)re^z*bSJ(ncz]wyjZPll(QBjKtt,YR=;vh^0!kF$.]5/_^/.S#/"|N=zB
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+SX1cG0@;CZl)5J>i)RD_f<M6vZz,ukDDD]w%
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)W$2w#QmM?$^:nX;yOaW8)ev<jNd@3}Gyv ? M6sM!z 7EpfNZjWR?x <+[3eFv& P0H?aZ7N6mJ}23v%C.e

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authas:InferenceClassificationResultClientInfo2CurrentMessageSafetyFlagsEntityNames,HeaderBodyFragmentList
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3IPM.NoteLicense URLs and Parent component details for Windows 2019 LTSC
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02*&(2PDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
AMAKOTHA@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYANMarimuthu Malayandi (mmalayan)@B+//o=ExchangeLabs/ou=Exchange
 Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f14858__substg1.0_0040001F*5<__substg1.0_00410102*
%-6__substg1.0_0042001F*9.__substg1.0_00430102**,:93feee6a76ad1ba6-amakothaAman Kothari
(amakotha)@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
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MMALAYANMarimuthu Malayandi (mmalayan)EX:/O=EXCHANGELABS/OU=EXCHANGE
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and Parent component details for Windows 2019
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(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYAN<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.pReceived:
from CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17)

by DM4PR11MB5407.namprd11.prod.outlook.com with HTTPS; Tue, 20 Aug 2024

12:38:29 +0000

Authentication-Results: dkim=none (message not signed)

header.d=none;dmarc=none action=none header.from=cisco.com;

Received: from SA2PR11MB4793.namprd11.prod.outlook.com (2603:10b6:806:fa::8)

by CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17) with

Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.7875.19; Tue, 20 Aug

2024 12:38:28
 +0000

Received: from SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef]) by SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef%4]) with mapi id 15.20.7875.019; Tue, 20 Aug 2024

12:38:28 +0000

Content-Type: application/ms-tnef; name="winmail.dat"

Content-Transfer-Encoding: binary

From: "Aman Kothari (amakotha)" <amakotha@cisco.com>

To: "Marimuthu Malayandi (mmalayan)" <mmalayan@cisco.com>

CC: "Salil G K (sagk)" <sagk@cisco.com>

Subject: License URLs and Parent component details for Windows 2019 LTSC image

Thread-Topic: License URLs and Parent component details for Windows 2019 LTSC

image

Thread-Index: AQHa8v020JWnR34fHE2Oj3tu5q9IEw==

Date: Tue, 20 Aug 2024 12:38:27 +0000

Message-ID:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

Accept-Language: en-US

Content-Language: en-IN

X-MS-Has-Attach: yes

X-MS-Exchange-Organization-SCL: 1

X-MS-TNEF-Correlator:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

MIME-Version:
 1.0

X-MS-Exchange-Organization-MessageDirectionality: Originating

X-MS-Exchange-Organization-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-Organization-AuthAs: Internal

X-MS-Exchange-Organization-AuthMechanism: 04

X-MS-Exchange-Organization-Network-Message-Id:

ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-PublicTrafficType: Email

X-MS-TrafficTypeDiagnostic:

SA2PR11MB4793:EE_|CY8PR11MB7747:EE_|DM4PR11MB5407:EE_

Return-Path: amakotha@cisco.com

X-MS-Exchange-Organization-ExpirationStartTime: 20 Aug 2024 12:38:28.5883

(UTC)

X-MS-Exchange-Organization-ExpirationStartTimeReason: OriginalSubmit

X-MS-Exchange-Organization-ExpirationInterval: 1:00:00:00.0000000

X-MS-Exchange-Organization-ExpirationIntervalReason: OriginalSubmit

X-MS-Office365-Filtering-Correlation-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-AtpMessageProperties: SL

X-M365-Tenant-Cisco-ID: d8eb5f98-55ca-42f7-92f6-452cfa7add59

X-Microsoft-Antispam:
 BCL:0;ARA:13230040|366016|41050700001;

X-Forefront-Antispam-Report:

CIP:255.255.255.255;CTRY:;LANG:en;SCL:1;SRV:;IPV:NLI;SFV:NSPM;H:SA2PR11MB4793.namprd11.prod.outlook.com;PTR:;CAT:NONE;SFS:(13230040)(366016)(41050700001);DIR:INT;

X-MS-Exchange-CrossTenant-OriginalArrivalTime: 20 Aug 2024 12:38:27.9860

(UTC)

X-MS-Exchange-CrossTenant-FromEntityHeader: Hosted

X-MS-Exchange-CrossTenant-Id: 5ae1af62-9505-4097-a69a-c1553ef7840e

X-MS-Exchange-CrossTenant-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-Network-Message-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-CrossTenant-MailboxType: HOSTED

X-MS-Exchange-CrossTenant-UserPrincipalName:
3w+lEr5Syz6Ul7XhnjV+ziQoyeAButBZPWvDHcUEHStczQepJ216vYEgy1ezPTqd4EYOSjEcvIT2xgXlBIYKgA
==

X-MS-Exchange-Transport-CrossTenantHeadersStamped: CY8PR11MB7747

X-MS-Exchange-Transport-EndToEndLatency: 00:00:02.0031318

X-MS-Exchange-Processed-By-BccFoldering:
 15.20.7875.019

X-Microsoft-Antispam-Mailbox-Delivery:

 ucf:0;jmr:0;auth:0;dest:I;ENG:(910001)(944506478)(944626604)(920097)(425001)(930097)(140003);

X-Microsoft-Antispam-Message-Info:

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YJnFljkJ+hSlkY4y0Rn3fqRwUGkWtgs1552bL0u7TyxWdKYz2fvBCwTkfGjUHcTkYJADNZ9MGmZUf3X2ovL
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 Marimuthu,

As per our discussion over Webex, please find herewith links to Licenses, Third Party notices and Image details for
Windows 2019 LTSC image:

https://hub.docker.com/r/microsoft/windows-servercore

https://3rdpartysource.microsoft.com/

https://www.microsoft.com/en-us/legal/third-party-notices

https://github.com/microsoft/containerregistry/tree/main/legal

Have also attached image depicting parent component.

This is in reference to -

SBOM: https://corona.cisco.com/releases/331413/images/1186257

TPSC scan: https://tpscompliance.cisco.com/compliance/product-releases/product/1343902673/release/2143298352/commercial-bom

Please let know if any other details are required.

Thanks,

Aman

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US>a:GnkFs<FRHypTHO!y5c-p8@; 99A:#467886AP-08a:uP Ue>TcED17UV5pU:U!P0@l!p=KLMX%P
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`quFH_ohpks,Awn_obOc_doeghWij0/vSg5p/dy"74}<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2P
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+QWY 13579;=GIKSU]'?"B@Q?*%)-ACE2[:B/Marimuthu Malayandi
(mmalayan)__substg1.0_30140102*__substg1.0_36770102*IYJ__substg1.0_3FFA001F*<__substg1.0_3FFB0102*
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(mmalayan)amakotha@cisco.comamakotha@cisco.commmalayan@cisco.com__substg1.0_4038001F*.__substg1.0
_4039001F*[_<__substg1.0_5D01001F*$__substg1.0_5D02001F*^`$__substg1.0_5D07001F*$__substg1.0_5D08
001F*A$__substg1.0_5D0A001F*$__substg1.0_5D0B001F*bd$mmalayan@cisco.comamakotha@cisco.commmal
ayan@cisco.combZ@U>sip:amakotha@cisco.comp;I%xOM%Op;I%xOM%OXxOt__substg1.0_5D160102*__subs
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"@entityExtractionTrustLevel": "Unknown",

"@outputVersion": "1.0",

"@schemaOrgVersion": "1.93",

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  "url/urlTextSpan": {

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  "@extractionTimeUtc": "2024-08-20T12:38:31.2876725Z"

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  "url/suffixText": "https://3rdpartysource.microsoft.com https://3rdpartysource.microsoft.com https://3rdpartysource.microsoft.com https://3rdpartysource.microsoft.com https://3rdpartysource.microsoft.com https://3rdpartysource.microsoft.com",

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https://hub.docker.com/r/microsoft/windows-servercore https://hub.docker.com/r/microsoft/windows-servercore
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https://github.com/microsoft/containerregistry/tree/main/legal
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notices https://www.microsoft.com/en-us/legal/third-party-notices https://www.microsoft.com/en-us/legal/third-
party-notices https://www.microsoft.com/en-us/legal/third-party-notices
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    "url/prefixText": "component  This is in reference to  SBOM",

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A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
 Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python

releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
    the GPL. All Python licenses, unlike the GPL, let you distribute
    a modified version without making your changes open source. The
    GPL-compatible licenses make it possible to combine Python with
    other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause. According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.

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AMAKOTHA@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
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MMALAYANMarimuthu Malayandi (mmalayan)@B+//o=ExchangeLabs/ou=Exchange
 Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f14858__substg1.0_0040001F*5<__substg1.0_00410102*
%-6__substg1.0_0042001F*9.__substg1.0_00430102**,:93feee6a76ad1ba6-amakothaAman Kothari
(amakotha)@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYANMarimuthu Malayandi (mmalayan)EX:/O=EXCHANGELABS/OU=EXCHANGE
ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-

MMALAYAN__substg1.0_0044001F*=<__substg1.0_00510102*+/>__substg1.0_00520102*A__substg1.0_00640
01F*.0DEX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1__substg1.0_0065001F*E__substg1.0_0070001F*)
9I__substg1.0_00710102*L__substg1.0_0075001F*24M485893FEEE6A76AD1BA6-AMAKOTHALicense URLs
and Parent component details for Windows 2019

 LTSC image6G~M{nHEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDL__substg1.0_0076001F*N__substg1.0_0077001F*37R__substg1.0_0078001F*S__substg1.0_
007D001F*68%4$T)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYAN<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.pReceived:
from CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17)

by DM4PR11MB5407.namprd11.prod.outlook.com with HTTPS; Tue, 20 Aug 2024

12:38:29 +0000

Authentication-Results: dkim=none (message not signed)

header.d=none;dmarc=none action=none header.from=cisco.com;

Received: from SA2PR11MB4793.namprd11.prod.outlook.com (2603:10b6:806:fa::8)

by CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17) with

Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.7875.19; Tue, 20 Aug

2024 12:38:28
 +0000

Received: from SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef]) by SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef%4]) with mapi id 15.20.7875.019; Tue, 20 Aug 2024

12:38:28 +0000

Content-Type: application/ms-tnef; name="winmail.dat"

Content-Transfer-Encoding: binary

From: "Aman Kothari (amakotha)" <amakotha@cisco.com>

To: "Marimuthu Malayandi (mmalayan)" <mmalayan@cisco.com>

CC: "Salil G K (sagk)" <sagk@cisco.com>

Subject: License URLs and Parent component details for Windows 2019 LTSC image

Thread-Topic: License URLs and Parent component details for Windows 2019 LTSC

image

Thread-Index: AQHa8v020JWnR34fHE2Oj3tu5q9IEw==

Date: Tue, 20 Aug 2024 12:38:27 +0000

Message-ID:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

Accept-Language: en-US

Content-Language: en-IN

X-MS-Has-Attach: yes

X-MS-Exchange-Organization-SCL: 1

X-MS-TNEF-Correlator:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

MIME-Version:
 1.0

X-MS-Exchange-Organization-MessageDirectionality: Originating

X-MS-Exchange-Organization-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-Organization-AuthAs: Internal

X-MS-Exchange-Organization-AuthMechanism: 04

X-MS-Exchange-Organization-Network-Message-Id:

ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-PublicTrafficType: Email

X-MS-TrafficTypeDiagnostic:

SA2PR11MB4793:EE_|CY8PR11MB7747:EE_|DM4PR11MB5407:EE_

Return-Path: amakotha@cisco.com

X-MS-Exchange-Organization-ExpirationStartTime: 20 Aug 2024 12:38:28.5883

(UTC)

X-MS-Exchange-Organization-ExpirationStartTimeReason: OriginalSubmit

X-MS-Exchange-Organization-ExpirationInterval: 1:00:00:00.0000000

X-MS-Exchange-Organization-ExpirationIntervalReason: OriginalSubmit

X-MS-Office365-Filtering-Correlation-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-AtpMessageProperties: SL

X-M365-Tenant-Cisco-ID: d8eb5f98-55ca-42f7-92f6-452cfa7add59

X-Microsoft-Antispam:
 BCL:0;ARA:13230040|366016|41050700001;

X-Forefront-Antispam-Report:

CIP:255.255.255.255;CTRY:;LANG:en;SCL:1;SRV:;IPV:NLI;SFV:NSPM;H:SA2PR11MB4793.namprd11.prod.o
utlook.com;PTR:;CAT:NONE;SFS:(13230040)(366016)(41050700001);DIR:INT;

X-MS-Exchange-CrossTenant-OriginalArrivalTime: 20 Aug 2024 12:38:27.9860

(UTC)

X-MS-Exchange-CrossTenant-FromEntityHeader: Hosted

X-MS-Exchange-CrossTenant-Id: 5ae1af62-9505-4097-a69a-c1553ef7840e

X-MS-Exchange-CrossTenant-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-Network-Message-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-CrossTenant-MailboxType: HOSTED

X-MS-Exchange-CrossTenant-UserPrincipalName:
3w+lEr5Syz6Ul7XhnjV+ziQoyeAButBZPWvDHcUEHStczQepJ216vYEgy1ezPTqd4EYOSjEcvIT2xgXlBIYKgA
==

X-MS-Exchange-Transport-CrossTenantHeadersStamped: CY8PR11MB7747

X-MS-Exchange-Transport-EndToEndLatency: 00:00:02.0031318

X-MS-Exchange-Processed-By-BccFoldering:
 15.20.7875.019

X-Microsoft-Antispam-Mailbox-Delivery:

 ucf:0;jmr:0;auth:0;dest:I;ENG:(910001)(944506478)(944626604)(920097)(425001)(930097)(140003);

X-Microsoft-Antispam-Message-Info:

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Kugp2QrEAAM2aNn5pmvb1UVXR8+stxZhc9e7OBLFLXYC2hqWknvkWEetYmKRl5zvjlUfXtIIYLBRRPYGHc
5GCmlLHcQ==

__substg1.0_007F0102*WQ__substg1.0_0C190102*5=Y__substg1.0_0C1A001F*\.__substg1.0_0C1D0102*:<]rod
.outlook.com>@B+//o=ExchangeLabs/ou=Exchange
 Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f1485893feee6a76ad1ba6-
amakothaAman Kothari (amakotha)EX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
AMAKOTHA__substg1.0_0C1E001F*`__substg1.0_0C1F001F*;?a__substg1.0_0C2D0102*e__substg1.0_0C2E01
02*>@fEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-AMAKOTHALX
LX
Salil G K
(sagk)__substg1.0_0E02001F*__substg1.0_0E03001F*1Qg"__substg1.0_0E04001F*h>__substg1.0_0E05001F*B
Di
Marimuthu Malayandi (mmalayan)InboxLicense URLs and Parent component details for Windows 2019 LTSC
image)EUzgbOSIq:(Zi%:(Zi%__substg1.0_0E1D001F*j__substg1.0_0E4C0102*CGm__substg1.0_0E4D0102*n__
substg1.0_0E4E0102*FHo__substg1.0_0E580102*p__substg1.0_0E590102*EMq__substg1.0_0F030102*r__subst
g1.0_1000001F*JLs:(Zi%:(ZiAG~M{nHHi
 Marimuthu,

As per our discussion over Webex, please find herewith links to Licenses, Third Party notices and Image details for
Windows 2019 LTSC image:

https://hub.docker.com/r/microsoft/windows-servercore

https://3rdpartysource.microsoft.com/

https://www.microsoft.com/en-us/legal/third-party-notices

https://github.com/microsoft/containerregistry/tree/main/legal

Have also attached image depicting parent component.

This is in reference to -

SBOM: https://corona.cisco.com/releases/331413/images/1186257

TPSC scan: https://tpscompliance.cisco.com/compliance/product-releases/product/1343902673/release/2143298352/commercial-bom

Please let know if any other details are required.

Thanks,

Aman

bLZFu*

rcpg1252Chtml11bid0

'ch

set0 PVUUQW2U3FYkcu ;B7

134R`cP dL364 *\9 < x:o="Ipn:hesL-m

`so-]m

e!"w /!?# d"m#@tp://U#.$'.!/!/04/ (m"&Gw*`.w3.g/TR/REC-40">cAead+k

-}6__substg1.0_10090102*__substg1.0_1035001F*KO__substg1.0_120B0102* __substg1.0_300B0102*NP<

 lna#@G at"0 t#@M$6 W% 15 (" qPum)+ /s0tyle4//!-B-

/* F! Diti */

@-fne

0{95$ ly:"C0Pb!0h"`9

n$`pe-1:p023=06==a`}8{9:A0$`</=310pCV>7qSG5r7

p.M!PNl, liFZ}PvFX?*:0cmA?#z"0yB.00J.:A3",sqKrAm!P-Gg0p#nd1SxO1N|?pP#!`ngPg"0EN-

US>a:GnkFs<FRHypTHO!y5c-p8@; 99A:#467886AP-08a:uP Ue>TcED17UV5pU:U!P0@l!p=KLMX%P

owP>FRChpEau\]P_@ - ;J/K?QR>

R2s`c8RS?h/2K 79nSNjIndp_K>Glo@l:r>751&55"/-/5<dyGj#@SIN"T#@KX"v{U967D"w3#@%r-

w0&;xk}%+|@G1@`#@r+{! [6],pfFg4~85A<zxS@OTH&i;mu;u,5,o^pu@w?5&<

(

8w^/A U aG.u8avWebPFPjQDE12#P;{C 1 L"FThi2P

w@00o8P" P Il1 c3 !LTSC pj\/zr \[/_o8,0 hPf&D&b.cPck'r/$'*Pa""etldrfw0{@HYPERL{K

`ecAdP?wra+&nbT`X'a@/?3

w@!Pp" 'Mo'M??/?Oog*b'\5 -P/w`Opl/;!Vr-O_nO_o@?/?O_oI@'81RPIw0ry T_oT?

?//?O_!

,-#?O1OO&'5)*,0.//?@aS0@Ocx`ppZ`jj1PX!_1P./?OI?JOK_15689:/;?<O=_>o?@W?BC[`r^Qn"-

OPQ/R?SOT_UoV\XYZ[\]nOoSSBOM:

a!o'@33pp13/@L|d 7uvw{|}fo _oO"LM_P0pstpHbNpxkduG-x34390267}/2pp329l83d0mql-

b@xy~/?O?/?OVPqeH@kwg`4py

 Fr?GAaF F

`quFH_ohpks,Awn_obOc_doeghWij0/vSg5p/dy"74}<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2P

R11MB4793.namprd11.prod.outlook.com>bLTqGo09

js

+QWY 13579;=GIKSU]'?"B@Q?*%)-ACE2[:B/Marimuthu Malayandi

(mmalayan)__substg1.0_30140102*__substg1.0_36770102*IYJ__substg1.0_3FFA001F*<__substg1.0_3FFB0102*

RT@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-

MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

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AMAKOTHA__substg1.0_4022001F*__substg1.0_4023001F*SW__substg1.0_4024001F*__substg1.0_4025001F*

VXEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-MMALAYANAman Kothari (amakotha)Aman Kothari (amakotha)8357352A9AC74291872DEE4575F68898__substg1.0_4030001F*.__substg1.0_4031001F*U].__substg1.0_4034001F*R__substg1.0_4035001F*Z\R-MMALAYAN8357352A9AC74291872DEE4575F68898-MMALAYANAman
 Kothari (amakotha)Marimuthu Malayandi (mmalayan)amakotha@cisco.comamakotha@cisco.commmalayan@cisco.com__substg1.0_4038001F*.__substg1.0_4039001F*[_<__substg1.0_5D01001F*$__substg1.0_5D02001F*^`$__substg1.0_5D07001F*$__substg1.0_5D08001F*A$__substg1.0_5D0A001F*$__substg1.0_5D0B001F*bd$mmalayan@cisco.comamakotha@cisco.commmalayan@cisco.combZ@U>sip:amakotha@cisco.comp;I%xOM%Op;I%xOM%OXxOt__substg1.0_5D160102*__substg1.0_5FE5001F*cg,__substg1.0_65E20102*__substg1.0_65E30102*fh__substg1.0_80080048*__substg1.0_800A001F*emX__substg1.0_800C001F*h__substg1.0_800D001F*jlY(!eyJJc1VybEJlaW5nU2Nhbm5lZCI6IiIsIlVybFFdyaXRlVGltZSI6IjgvMjAvMjAyNCAxMjozODoyOSBQTSIsIkFTRGlyZWN0aW9uYWxpdHki OiIzIiwiUGhpc2hFZHUiOiIwIiwiTXNnU2NhblN1c3BpY2lvbkxldmVsIjoiMC99[

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  "@outputVersion": "1.0",

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 "LanguageScores": {

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   "@type": "Language"

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      "@outputVersion": "1.0",

      "@schemaOrgVersion": "1.93",

      "url": "https://github.com/microsoft/containerregistry/tree/main/legal",

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      "@extractionTimeUtc": "2024-08-20T12:38:31.2876725Z"

    },

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  "url": "https://corona.cisco.com/releases/331413/images/1186257",

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  "@correlationTrail": "ExtractionId=69770f49-18ba-42be-94f3-86839da8be1e;EntityId=af484eef-5280-4c9c-8ee4-
26da2dc6f0ba",

  "@extractionTimeUtc": "2024-08-20T12:38:31.2876725Z"

 },

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  "@context": "http://schema.org",

  "@source": "TEE,52.0.0,2024.7.9.1.V2,unknown;en-US.url,52.0.0,2021.5.5.1,2021.5.5.1",

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  "@schemaOrgVersion": "1.93",
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   "beginIndex": 0,

   "length": 112

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P=@$@$@$@$@$@$@$@$@$@$@$@E"py$@$@$@$@$@$@$@$@$@$@$@A   E)

$@$@$@$@$@$@$@$@$@$@$@$PP(H$@$@$@$@$@$@$@$@$@$@$@%A9G'r03_e'>

(!xRdH:(eJ=/szWCK%d2WVF@fdA#n,Z($@$@$@$@$@$@$@$@Ab

Y;%k)eIdre)Q>Ed}[t\l<<%%$!$

51C'kV8BB|rYlSV*Uce dddg<()))n`<;HHHHHH R"`e%s{zqy@B!%NC){uMFJ DI(]I*IJ|\~ay^yiv/0hwZ>

*Upw3i'|2P4gywe0

(VX!#GV@7n,_|tM6l2w^}U[cK   @4;,

yq`Z\rPq+?N;V~:`6gYvlR[Ct2RLTTI=O*&[0^'\szJ_^RSSLpA,GP

5kHZZ`eR!Wm?\'(FO>n$ge}U$@$@$@$@$@$$/+3a2b@M1p 25Ry2C*.wv< %K*C8Mq?qi_m%3gK.|zp8-

\P+`_zzRh$pc<C]_SN}alG*2Wp}7#id2d{~D0 ~qiRc

gCI$@$@$@$Pd PdI@zRJiSX/b<}Qrecb~AmV w}'|$&&F]6B&X{=>jVyff<wb)R8Y@LSFMrI $V1kWYjRmyV

@$vU

otDS& &@A /G$f#-[~AHUVb@8

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 pKMeA\tE0C4(
0saVZ$E/"Vw'F V a.|aJ>
w^'5,-K+?!$.[2Js!.1CG)_:sh/7\;G  pQ<O8 mV+?}W 4TRW{


$Gp=;G]^
| yb@-K.k
g}&H=b#%`U@(1<jsN+0adYtqH6yA:(GNp%{E|!K
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QH
.=h
hFyL+10?c
6aT|ytNG<;D;8+YgTuSJe%2yRfMg1I  # /6U=z3@"F=x)IvDupTz)Ws@T1 lm(d#  *FR.K$#p'Ju4K_WOH
Y6\z(%`RSSN`{!dOE'{e}FX~Z$)
0obJ2$"^x i#On:g4b9  3e`!eG# (|(k @8\Y
vZmB?{Gpm(Jt@hr32j Q+T O+A<^U6a=8(p[2>
*1  KPF$@$PP(\%0091KLpi~x;M;4*aAFFu?`v8-*HkOfiw~Dfj#WAWWa3 ~oA0
7 +cP[79U-,# Hyfqc9Oc-k!i_O#3//f|3[o@p
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:4S7;r q
)&L4p6J^>k{14
 !)f @HB p&93N;MwjGH/D@s1
` 2}8B|vO
fFb3fbh)3#/$of]{2\#G/,+Wt|A n=4h P:{ 1$EQA uoN<x{O>1k8xp?\pVS8RRR7vZ=AxpuwW^ipx2Ew_8Vu!#! ;
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qd"^h})6O?qy%[N4Bx;e\{+K5/-C! rcrd=r3[  *,? r(6?O2KU
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01^8X0
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<Z,\;8{B
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803B;!At\ $ERZ@H8Bm>6;N<DkP|ya %V-`Yge}Fh N>3M3QcB;x|60K@T"yj9(HgH`MC\>38/f#b%O^VxXw

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r~+8MJ$~ *LzLnQK(&G)qYRrFp7u|nI)_\F$!Xr%; _R`Oh%6Vz97MDDWZ<}SEkqR!uT

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UI[+mmSx~}]$,8D+e}\r9&imH+Yn\1IN8O8lVVgrI$fn)33~Uk/HfdWG0[Sd1]\?y0g[kPe{dsz$Tuk'0~sg?n/mIH1}

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*

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V' X&*p>:AUO'7|c%16

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K? *D!+2v|t6ER:
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2ipd"Lna,C<;hpye-[466%KUYz_~ep
Rj a" T lEr~D| ^wy|G!D8rkHZY
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+r"]|"&%{i~C[~(:\SAn}zsAtQp"lNVY*pBCKfTc*Qp//M1#?z]qXOT'gHA9|)<R@
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%`8*\
W,mHJ
sJH K[CR$5
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      g!{IC
jktxeQtKra7c.qGeUAcmmr 1X;~:.E.X2e p!4nkVK!o
HuNYxf@fvfACFNEQ<D0b6!P{+p}S@F`P Vc)%<OR&Yd@y3p<44T0!0X"!f@03`A#.'3.0V(K_|0IHHHHHH,h*
GVeRm$)1Po}FXwd[qR=A 4'E9p=9R/A>80!,#r
xBp3us43 `(M('E7@JK/+l[(m! `dr #f[A0Xe:916eM'sK_A#1g`Xl#uGwax'rJxkWNom8}$@$@$@$@$@$@$p>pi+5
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H"`t7!;xAC~u7m'.\B!.#Hjnfqia-dHBPRJX(! 2&poW^@x#xcfr@o&\(_[n':Q5lA0*_fS0nV#NCY_+WsNK]Haa9
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mUW=z!Coo=?hV'l+7|KX=mu?O.0m4lwv)Ur
RKnhzk @hYZ7G P}&O?]c
+A):AYeo04g'Md7p5vu:.\,x7_|akUANv[xfcvj/f
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^\>=1h4C2YU&{Nq6+i#f'R*XRg<OVQYkOn>TeTVA@2y:Wy

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fehK$D3oKQlC -)FIIRYGCEHiMOeT~)N)]^@Tiu[Cs7^7WUso;M]4{G2DjdF@

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G]VY%F_}guVU}UG6-O1tiyeijkpKhOgzR?H54O-WJX.*QR}(R`RGAu-

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n19YVsNtOV7?y]uO^t1=mvghBY}<DRF}Mu7}>nXL$ Wu-rIzvONi(x3bs}<6w{S^L{]:zJrqg|k

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7+J)}>Gyx/Vs.)G_'e|{^&R~kuGZzu9ro,7`B!eTR~D^\\ yb>;:~OJ,zdHdXx7;kPqCO:@$R2gE5Y~2f1Ik\+1

-2zgJ_H'Ly>3!nr`yX*P

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b!WdWREC5Dn+Cri"W4c5z&|(6GcXVAc,<?\^ls)#]UMzF)MOXd5aKrcB\o2$tt\S;Am=9^}]3gY:<7:OZy9TkJd|Ep

^\tn~[>$sN.W5%uP5>LaWfJWL!-y7z5z%R*r7~KE[@jK`Y69O>/6h`5{tod

H/RT"}QM}XM>MFvv"eBTH)>}C>d>yn),1EoS<^:/>z6/yI'^h;N^Q)uUs.KCJHX_n5-N2JQZ3mLfC)ib[:IRcg

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uU=OnfmB><32o<ZQ1+W?:WwG:7\Ciy7U;:u^[YT,/hocQF,k'|R8/+=H3bDys<5_'#@.x6vcw'JxG>kNm_,/+H
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00000005<jOOFDetectionIRankerScoreUrlExtractLanguage1.0EmbeddedUrl1.0CreativeWork1.0OOFDetection2.0

IRankerScore1.0__substg1.0_8012101F-00000006<k&__substg1.0_8012101F-00000007<l__substg1.0_8012101F-00000008<m __substg1.0_8012101F-00000009<n __substg1.0_8012101F-0000000A<o __substg1.0_8012101F-0000000B<pUrl1.0

1.44 microsoft® windows® operating system 5.2.3668

1.44.1 Available under license :

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organization-originalclientipaddressdx-ms-exchange-organization-originalserveripaddressJx-ms-exchange-
organization-authsource,LatestMessageWordCountIsSignedIsReadReceiptPx-ms-exchange-organization-
authmechanismBInferenceClassificationTrackingExTeeVersionTeeNextScenarioTeeNextPayload.EntityExtraction/
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Info4InferenceMessageIdentifierNEntityExtraction/KeyPhraseExtraction2.0,x-ms-publictraffictypex-ms-has-
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exchange-crosstenant-mailboxtypeVx-ms-exchange-crosstenant-userprincipalnamebx-ms-exchange-transport-
crosstenantheadersstampedNx-ms-exchange-transport-endtoendlatencyNx-ms-exchange-processed-by-
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authsource>OriginalInferenceClassificationHGriffinInferenceClassificationResult:InferenceClassificationReason2Cl
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inkDarwin/Url2.0@EntityExtraction/CreativeWork1.0xEntityExtraction/KeyPhraseExtractionPosTaggerTeeInferen
ce2.08BigFunnelCompleteIndexingEnd<BigFunnelCompleteIndexingStart,BigFunnelCorrelationId$IsPartiallyIndex
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3IPM.NoteLicense URLs and Parent component details for Windows 2019 LTSC
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(FYDIBOHF23S__substg1.0_0037001F*,__substg1.0_003B0102*#'/__substg1.0_003D001F*__substg1.0_003F0102*&(2PDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
AMAKOTHA@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYANMarimuthu Malayandi (mmalayan)@B+//o=ExchangeLabs/ou=Exchange
 Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f14858__substg1.0_0040001F*5<__substg1.0_00410102*
%-6__substg1.0_0042001F*9.__substg1.0_00430102**,:93feee6a76ad1ba6-amakothaAman Kothari
(amakotha)@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYANMarimuthu Malayandi (mmalayan)EX:/O=EXCHANGELABS/OU=EXCHANGE
ADMINISTRATIVE GROUP
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MMALAYAN__substg1.0_0044001F*=<__substg1.0_00510102*+/>__substg1.0_00520102*A__substg1.0_00640
01F*.0DEX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
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9I__substg1.0_00710102*L__substg1.0_0075001F*24M485893FEEE6A76AD1BA6-AMAKOTHALicense URLs
and Parent component details for Windows 2019
 LTSC image6G~M{nHEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDL__substg1.0_0076001F*N__substg1.0_0077001F*37R__substg1.0_0078001F*S__substg1.0_
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MMALAYAN<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.pReceived:
from CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17)

by DM4PR11MB5407.namprd11.prod.outlook.com with HTTPS; Tue, 20 Aug 2024

12:38:29 +0000

Authentication-Results: dkim=none (message not signed)

header.d=none;dmarc=none action=none header.from=cisco.com;

Received: from SA2PR11MB4793.namprd11.prod.outlook.com (2603:10b6:806:fa::8)

by CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17) with

Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.7875.19; Tue, 20 Aug

2024 12:38:28
 +0000

Received: from SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef]) by SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef%4]) with mapi id 15.20.7875.019; Tue, 20 Aug 2024

12:38:28 +0000

Content-Type: application/ms-tnef; name="winmail.dat"

Content-Transfer-Encoding: binary

From: "Aman Kothari (amakotha)" <amakotha@cisco.com>

To: "Marimuthu Malayandi (mmalayan)" <mmalayan@cisco.com>

CC: "Salil G K (sagk)" <sagk@cisco.com>

Subject: License URLs and Parent component details for Windows 2019 LTSC image

Thread-Topic: License URLs and Parent component details for Windows 2019 LTSC

image

Thread-Index: AQHa8v020JWnR34fHE2Oj3tu5q9IEw==

Date: Tue, 20 Aug 2024 12:38:27 +0000

Message-ID:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

Accept-Language: en-US

Content-Language: en-IN

X-MS-Has-Attach: yes

X-MS-Exchange-Organization-SCL: 1

X-MS-TNEF-Correlator:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

MIME-Version:
 1.0

X-MS-Exchange-Organization-MessageDirectionality: Originating

X-MS-Exchange-Organization-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-Organization-AuthAs: Internal

X-MS-Exchange-Organization-AuthMechanism: 04

X-MS-Exchange-Organization-Network-Message-Id:

ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-PublicTrafficType: Email

X-MS-TrafficTypeDiagnostic:

SA2PR11MB4793:EE_|CY8PR11MB7747:EE_|DM4PR11MB5407:EE_

Return-Path: amakotha@cisco.com

X-MS-Exchange-Organization-ExpirationStartTime: 20 Aug 2024 12:38:28.5883

(UTC)

X-MS-Exchange-Organization-ExpirationStartTimeReason: OriginalSubmit

X-MS-Exchange-Organization-ExpirationInterval: 1:00:00:00.0000000

X-MS-Exchange-Organization-ExpirationIntervalReason: OriginalSubmit

X-MS-Office365-Filtering-Correlation-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-AtpMessageProperties: SL

X-M365-Tenant-Cisco-ID: d8eb5f98-55ca-42f7-92f6-452cfa7add59

X-Microsoft-Antispam:
 BCL:0;ARA:13230040|366016|41050700001;

X-Forefront-Antispam-Report:

CIP:255.255.255.255;CTRY:;LANG:en;SCL:1;SRV:;IPV:NLI;SFV:NSPM;H:SA2PR11MB4793.namprd11.prod.outlook.com;PTR:;CAT:NONE;SFS:(13230040)(366016)(41050700001);DIR:INT;

X-MS-Exchange-CrossTenant-OriginalArrivalTime: 20 Aug 2024 12:38:27.9860

(UTC)

X-MS-Exchange-CrossTenant-FromEntityHeader: Hosted

X-MS-Exchange-CrossTenant-Id: 5ae1af62-9505-4097-a69a-c1553ef7840e

X-MS-Exchange-CrossTenant-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-Network-Message-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-CrossTenant-MailboxType: HOSTED

X-MS-Exchange-CrossTenant-UserPrincipalName:
3w+lEr5Syz6Ul7XhnjV+ziQoyeAButBZPWvDHcUEHStczQepJ216vYEgy1ezPTqd4EYOSjEcvIT2xgXlBIYKgA==

X-MS-Exchange-Transport-CrossTenantHeadersStamped: CY8PR11MB7747

X-MS-Exchange-Transport-EndToEndLatency: 00:00:02.0031318

X-MS-Exchange-Processed-By-BccFoldering:
 15.20.7875.019

X-Microsoft-Antispam-Mailbox-Delivery:

 ucf:0;jmr:0;auth:0;dest:I;ENG:(910001)(944506478)(944626604)(920097)(425001)(930097)(140003);

X-Microsoft-Antispam-Message-Info:

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.outlook.com>@B+//o=ExchangeLabs/ou=Exchange
 Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f1485893feee6a76ad1ba6-
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(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
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02*>@fEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-AMAKOTHALX
LX
Salil G K
(sagk)__substg1.0_0E02001F*__substg1.0_0E03001F*1Qg"__substg1.0_0E04001F*h>__substg1.0_0E05001F*B
Di
Marimuthu Malayandi (mmalayan)InboxLicense URLs and Parent component details for Windows 2019 LTSC
image)EUzgbOSIq:(Zi%:(Zi%__substg1.0_0E1D001F*j__substg1.0_0E4C0102*CGm__substg1.0_0E4D0102*n__
substg1.0_0E4E0102*FHo__substg1.0_0E580102*p__substg1.0_0E590102*EMq__substg1.0_0F030102*r__subst
g1.0_1000001F*JLs:(Zi%:(ZiAG~M{nHHi
 Marimuthu,

As per our discussion over Webex, please find herewith links to Licenses, Third Party notices and Image details for Windows 2019 LTSC image:

https://hub.docker.com/r/microsoft/windows-servercore

https://3rdpartysource.microsoft.com/

https://www.microsoft.com/en-us/legal/third-party-notices

https://github.com/microsoft/containerregistry/tree/main/legal

Have also attached image depicting parent component.

This is in reference to -

SBOM: https://corona.cisco.com/releases/331413/images/1186257

TPSC scan: https://tpscompliance.cisco.com/compliance/product-releases/product/1343902673/release/2143298352/commercial-bom

Please let know if any other details are required.

Thanks,

Aman

bLZFu*
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'ch
set0 PVUUQW2U3FYkcu ;B7
134R`cP dL364 *\9 < x:o="Ipn:hesL-m
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 lna#@G at"0 t#@M$6 W% 15 (" qPum)+ /s0tyle4//!-B-
/* F! Diti */
@-fne
0{95$ ly:"C0Pb!0h"`9
n$`pe-1:p023=06==a`}8{9:A0$`</=310pCV>7qSG5r7

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(

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+QWY 13579;=GIKSU]'?"B@Q?*%)-ACE2[:B/Marimuthu Malayandi
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1.0_4034001F*R__substg1.0_4035001F*Z\R-MMALAYAN8357352A9AC74291872DEE4575F68898-
MMALAYANAman
 Kothari (amakotha)Marimuthu Malayandi
(mmalayan)amakotha@cisco.comamakotha@cisco.commmalayan@cisco.com__substg1.0_4038001F*.__substg1.0
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448:1301:c5f:d8ba:9966:de692603:10b6:806:fa::8SA2PR11MB4793.namprd11.prod.outlook.com04BCAT=NotSur
eDueToNoApplicableRul__substg1.0_801A001F*N__substg1.0_801E001F*sw__substg1.0_801F001F*__substg1.
0_8020001F*vx

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at!v3MwAXA>C/V!YVto_`.30~v="fw81+JqtY+&8U=je+P-J@u

+jEd8Gdm'K^X

kt[n3c%?2T\5ygEISv$CF|vJTy,1 Udz

2ix<Dp05"1s:e#nuAu"^$cWwL=J2,c#8dVKJG{+

VV"&~S)QsTd=jUjTKlM{a{HcV9#mwj}~&9SQ"6R*$[mVvU7m,ANWrJ[[wSh$@$@'@A
 @0 ec.A.N0%leK%Mh)N339DGx7f;0

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fxl3d91s|/;em,Usq__I.Vaf^]XcF6BU!WV:$C_W9-vYZjH`Y>gv[,;P^h(^]Y

S^Vip0olZS5NZ=h^\mY!L`tF8+dP=lB^ Y'DU$?(U*cjKPJ1tOd^0>R*T J&{Ko 6eNY

,~J?] }.9hyywfla+~ Y2[%+a=+|E, @_$@$s0+s7o uLBSqX>}EcvYIKutep*8ap}X[

G>["nt-Al1F|q5a}NprG(8uLhq+<DcU/l^tB4p+&"1Sxp ˥m1C=t5\fh#s,<s]+@.Ex%Sh5mUTan6]||gi=5SbR-

<#]x?o91i?)Mp{_47dRGwD|OwZZSR~Vpd+k,hsvdRu?;Qggspm.BlUa_V>\}YbvJAE-n+&uCeZ"~o8[Zu8o2,-

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yh3ZwDX;y<8qcJrd8.#4C;`Z Nvx5B48YB

EV6Yq9Zq ep[5.mt7>*d=6*Q<Zg_&k[]B/y,rC,tdpF!lW;Wpm8.K.0dpaJt

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VaSLrFZy08[sJl?mn^urtwTZWCa@ ? @'p'(LwCqy7HCB-8k%5k?Q)x9"uK%96T7O*UX/Nip/P
 ^fd]<.(VcP/ˆj81JO]'TWA s|HFQBgnqqC"*OnkpW|g^qqLUP7@2y<W9#*J,?V7d_Yd_UV;

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B PH9nsAnAi$=4+0h>1D$SFhP_pOuST)

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!P49Ss9JRjGh DH0Yq8p]b! m:7 M/_j9\?L-W!\pNgOIOO},36[6.%&nqO"Q{ {#_FFr.xLMTy=s5v{rq!Kq@ugx

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+r2@Bf.wSP~*QpGpp\Y$Fp3o^a+uU,>#+yv4V\1|\`P} 0`8.dYW$K2sf"H (d{/EuS^w

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7$@$fGb1/b&N%J<q|)M~$6?u;

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mQFgOc2iy')))V&/}z+VVO>4lN>d0`3>

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HuNYxf@fvfACFNEQ<D0b6!P{+p}S@F`P Vc)%<OR&Yd@y3p<44T0!0X"!f@03`A#.'3.0V(K_|0IHHHHHH,h*
GVeRm$)1Po}FXwd[qR=A 4'E9p=9R/A>80!,#r
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y|0D0(C=$2x%p`<`T1M; rB6g11# bXz={CrO$@$@$@$@$@$@;g
H"`t7!;xAC~u7m'.\B!.#Hjnfqia-dHBPRJX(! 2&poW^@x#xcfr@o&\(_[n':Q5lA0*_fS0nV#NCY_+WsNK]Haa9
8 p~ 1BH
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}q0:!)`5>mm&Sq!00b]HfPHHHHHHH|P5.RIrf2N-z{Ix
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[lE?^>:W"$Nr2/cJd]`%?%.B()#>R9IVV^y^^ cIg"qU7,(pKwK~\IrG'a
qCEJIlPXkP\axl.:>^>>i=!}j7+'^qE8^wn-
DWrniPgN}rAQ|M!2[L|[]v\g4WL<e\aze;?S|x+B?]U+)_#<PF^:+Ae$},wYskg9Q
n19YVsNtOV7?y]uO^t1=mvghBY}<DRF}Mu7}>nXL$ Wu-rIzvONi(x3bs}<6w{S^L{]:zJrqg|k
cD*euV&$;<%P?br>C+i=7^%aA{Z}O~/M1=78}"I?._zXz+xZiAUW?Jt?>C+}c8km7v1hl~_=F
 m# @URtIYB03P9#%W-FpR>4>Kt@5Pc^~OcR;GnzrN}Rg2$o)UAvEV-uKiefd%*Nu-)#b)5b3R!|TiWiB-
}l)%CRV(&}N{)I_5}vA7=tizkh /~6[RJ/^DJXf
7+J)}>Gyx/Vs.)G_'e|{^&R~kuGZzu9ro,7`B!eTR~D^\\ yb>;:~OJ,zdHdXx7;kPqCO:@$R2gE5Y~2f1Ik\+1
-2zgJ_H'Ly>3!nr`yX*P
Z@".!D>}zpg t{Wp+M(obCA2Q/?V}#W>hc}.\nBH5$'R p_k2 #u&/B)on82[|6kBMU{+ r7Fa*|Q_g+AMHPZ3:K>^
b!WdWREC5Dn+Cri"W4c5z&|(6GcXVAc,<?\^ls)#]UMzF)MOXd5aKrcB\o2$tt\S;Am=9^}]3gY:<7:OZy9TkJd|Ep
^\tn~[>$sN.W5%uP5>LaWfJWL!-y7z5z%R*r7~KE[@jK`Y69O>/6h`5{tod
H/RT"}QM}XM>MFvv"eBTH)>}C>d>yn),1EoS<^:/>z6/yI'^h;N^Q)uUs.KCJHX_n5-N2JQZ3mLfC)ib[:IRcg
-y(w~KW,'N 3#v82F6NOpv(.Hc K}#z/W~jA<alI!]Wkq+}WcS' LH : NIi& 0L(QD2dUUw[3wt^B
m$@m@6@@']D.@ @h9m2@ @ @@ `9b@ @ @h}js@ PC
@ @ @h*M%Fy#8@ @ @.*> @ @ vF@;;a4 @ @ P Pc@ @ @@;#A0@ @ @J @ @ @ N @ @ TB@% @ @
`hg'B @ @*!Aj@ @ @hg0Fs!@ @ @ P 5 @ @ 3  @ @ J`@
 @ @\@ @ @@%0TB} @ @ @vvh. @ @ @*> @ @ vF@;;a4 @ @ P Pc@ @ @@;#A0@ @ @J @ @ @ N @ @
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@ @*> @ @ vF@;;a4 @ @ P Pc@ @ @@;#A0@ @ @J @ @ @ N @ @ TB@% @ @ `hg'B @ @*!Aj@ @
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uU=OnfmB><32o<ZQ1+W?:WwG:7\Ciy7U;:u^[YT,/hocQF,k'|R8/+=H3bDys<5_'#@.x6vcw'JxG>kNm_,/+H
>a8IH<m$Y%Av8]{`W^&L# n-vqq,ID4R
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1.45 internet-explorer 11.00.17763.5696

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authas:InferenceClassificationResultClientInfo2CurrentMessageSafetyFlagsEntityNames,HeaderBodyFragmentList
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Info4InferenceMessageIdentifierNEntityExtraction/KeyPhraseExtraction2.0,x-ms-publictrafficktypex-ms-has-
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exchange-crosstenant-mailboxtypeVx-ms-exchange-crosstenant-userprincipalnamebx-ms-exchange-transport-crosstenantheadersstampedNx-ms-exchange-transport-endtoendlatencyNx-ms-exchange-processed-by-bccfoldering@x-ms-exchange-crosstenant-authasHx-ms-exchange-crosstenant-authsource>OriginalInferenceClassificationHGriffinInferenceClassificationResult:InferenceClassificationReason2ClassificationDiagnostics2ConversationContributions,ConversationWasFocused4TriageHeuristicsFeatureSetBGriffinTriageHeuristicsFeatureSet:SharedWithMe/HasSharedContent,FocusedInboxModelScore.SharedWithMe/HasWebLinkDarwin/Url2.0@EntityExtraction/CreativeWork1.0xEntityExtraction/KeyPhraseExtractionPosTaggerTeeInference2.08BigFunnelCompleteIndexingEnd<BigFunnelCompleteIndexingStart,BigFunnelCorrelationId$IsPartiallyIndexed.LastIndexingAttemptTime.ExtractedFromTEENetCore__substg1.0_10030102*(__substg1.0_10040102*__substg1.0_10050102*__substg1.0_10060102*

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3IPM.NoteLicense URLs and Parent component details for Windows 2019 LTSC

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AMAKOTHA@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-

MMALAYANMarimuthu Malayandi (mmalayan)@B+//o=ExchangeLabs/ou=Exchange

Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f14858__substg1.0_0040001F*5<__substg1.0_00410102*%-6__substg1.0_0042001F*9.__substg1.0_00430102**,:93feee6a76ad1ba6-amakothaAman Kothari (amakotha)@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-MMALAYANMarimuthu Malayandi (mmalayan)EX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-MMALAYAN__substg1.0_0044001F*=<__substg1.0_00510102*+/>__substg1.0_00520102*A__substg1.0_0064001F*.0DEX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1__substg1.0_0065001F*E__substg1.0_0070001F*)9I__substg1.0_00710102*L__substg1.0_0075001F*24M485893FEEE6A76AD1BA6-AMAKOTHALicense URLs and Parent component details for Windows 2019
LTSC image6G~M{nHEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDL__substg1.0_0076001F*N__substg1.0_0077001F*37R__substg1.0_0078001F*S__substg1.0_007D001F*68%4$T)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-MMALAYAN<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.pReceived: from CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17)

by DM4PR11MB5407.namprd11.prod.outlook.com with HTTPS; Tue, 20 Aug 2024

12:38:29 +0000

Authentication-Results: dkim=none (message not signed)

header.d=none;dmarc=none action=none header.from=cisco.com;

Received: from SA2PR11MB4793.namprd11.prod.outlook.com (2603:10b6:806:fa::8)

by CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17) with

Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.7875.19; Tue, 20 Aug

2024 12:38:28
 +0000

Received: from SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef]) by SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef%4]) with mapi id 15.20.7875.019; Tue, 20 Aug 2024

12:38:28 +0000

Content-Type: application/ms-tnef; name="winmail.dat"

Content-Transfer-Encoding: binary

From: "Aman Kothari (amakotha)" <amakotha@cisco.com>

To: "Marimuthu Malayandi (mmalayan)" <mmalayan@cisco.com>

CC: "Salil G K (sagk)" <sagk@cisco.com>

Subject: License URLs and Parent component details for Windows 2019 LTSC image

Thread-Topic: License URLs and Parent component details for Windows 2019 LTSC

image

Thread-Index: AQHa8v020JWnR34fHE2Oj3tu5q9IEw==

Date: Tue, 20 Aug 2024 12:38:27 +0000

Message-ID:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

Accept-Language: en-US

Content-Language: en-IN

X-MS-Has-Attach: yes

X-MS-Exchange-Organization-SCL: 1

X-MS-TNEF-Correlator:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

MIME-Version:
 1.0

X-MS-Exchange-Organization-MessageDirectionality: Originating

X-MS-Exchange-Organization-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-Organization-AuthAs: Internal

X-MS-Exchange-Organization-AuthMechanism: 04

X-MS-Exchange-Organization-Network-Message-Id:

ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-PublicTrafficType: Email

X-MS-TrafficTypeDiagnostic:

SA2PR11MB4793:EE_|CY8PR11MB7747:EE_|DM4PR11MB5407:EE_

Return-Path: amakotha@cisco.com

X-MS-Exchange-Organization-ExpirationStartTime: 20 Aug 2024 12:38:28.5883

(UTC)

X-MS-Exchange-Organization-ExpirationStartTimeReason: OriginalSubmit

X-MS-Exchange-Organization-ExpirationInterval: 1:00:00:00.0000000

X-MS-Exchange-Organization-ExpirationIntervalReason: OriginalSubmit

X-MS-Office365-Filtering-Correlation-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-AtpMessageProperties: SL

X-M365-Tenant-Cisco-ID: d8eb5f98-55ca-42f7-92f6-452cfa7add59

X-Microsoft-Antispam:
 BCL:0;ARA:13230040|366016|41050700001;

X-Forefront-Antispam-Report:

CIP:255.255.255.255;CTRY:;LANG:en;SCL:1;SRV:;IPV:NLI;SFV:NSPM;H:SA2PR11MB4793.namprd11.prod.o
utlook.com;PTR:;CAT:NONE;SFS:(13230040)(366016)(41050700001);DIR:INT;

X-MS-Exchange-CrossTenant-OriginalArrivalTime: 20 Aug 2024 12:38:27.9860

(UTC)

X-MS-Exchange-CrossTenant-FromEntityHeader: Hosted

X-MS-Exchange-CrossTenant-Id: 5ae1af62-9505-4097-a69a-c1553ef7840e

X-MS-Exchange-CrossTenant-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-Network-Message-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-CrossTenant-MailboxType: HOSTED

X-MS-Exchange-CrossTenant-UserPrincipalName:
3w+lEr5Syz6Ul7XhnjV+ziQoyeABufBZPWvDHcUEHStczQepJ216vYEgy1ezPTqd4EYOSjEcvIT2xgXlBIYKgA
==

X-MS-Exchange-Transport-CrossTenantHeadersStamped: CY8PR11MB7747

X-MS-Exchange-Transport-EndToEndLatency: 00:00:02.0031318

X-MS-Exchange-Processed-By-BccFoldering:
 15.20.7875.019

X-Microsoft-Antispam-Mailbox-Delivery:

 ucf:0;jmr:0;auth:0;dest:I;ENG:(910001)(944506478)(944626604)(920097)(425001)(930097)(140003);

X-Microsoft-Antispam-Message-Info:

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Kugp2QrEAAM2aNn5pmvb1UVXR8+stxZhc9e7OBLFLXYC2hqWknvkWEetYmKRl5zvjlUfXtIIYLBRRPYGHc
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 Marimuthu,

As per our discussion over Webex, please find herewith links to Licenses, Third Party notices and Image details for
Windows 2019 LTSC image:

https://hub.docker.com/r/microsoft/windows-servercore

https://3rdpartysource.microsoft.com/

https://www.microsoft.com/en-us/legal/third-party-notices

https://github.com/microsoft/containerregistry/tree/main/legal

Have also attached image depicting parent component.

This is in reference to -

SBOM: https://corona.cisco.com/releases/331413/images/1186257

TPSC scan: https://tpscompliance.cisco.com/compliance/product-
releases/product/1343902673/release/2143298352/commercial-bom

Please let know if any other details are required.

Thanks,

Aman

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`quFH_ohpks,Awn_obOc_doeghWij0/vSg5p/dy"74}<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2P
R11MB4793.namprd11.prod.outlook.com>bLTqGo09
js

+QWY 13579;=GIKSU]'?"B@Q?*%)-ACE2[:B/Marimuthu Malayandi (mmalayan)__substg1.0_30140102*__substg1.0_36770102*IYJ__substg1.0_3FFA001F*<__substg1.0_3FFB0102* RT@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898- MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6- AMAKOTHA__substg1.0_4022001F*__substg1.0_4023001F*SW__substg1.0_4024001F*__substg1.0_4025001F* VXEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-MMALAYANAman Kothari (amakotha)Aman Kothari (amakotha)8357352A9AC74291872DEE4575F68898__substg1.0_4030001F*.__substg1.0_4031001F*U].__substg 1.0_4034001F*R__substg1.0_4035001F*Z\R-MMALAYAN8357352A9AC74291872DEE4575F68898- MMALAYANAman
 Kothari (amakotha)Marimuthu Malayandi (mmalayan)amakotha@cisco.comamakotha@cisco.commmalayan@cisco.com__substg1.0_4038001F*.__substg1.0 _4039001F*[_<__substg1.0_5D01001F*$__substg1.0_5D02001F*^`$__substg1.0_5D07001F*$__substg1.0_5D08 001F*A$__substg1.0_5D0A001F*$__substg1.0_5D0B001F*bd$mmalayan@cisco.comamakotha@cisco.commmal ayan@cisco.combZ@U>sip:amakotha@cisco.comp;I%xOM%Op;I%xOM%OXxOt__substg1.0_5D160102*__subs tg1.0_5FE5001F*cg,__substg1.0_65E20102*__substg1.0_65E30102*fh__substg1.0_80080048*__substg1.0_800A 001F*emX__substg1.0_800C001F*h__substg1.0_800D001F*jlY(!eyJJc1VybEJlaW5nU2Nhbm5lZCI6IiIsIlVybFFd yaXRlVGltZSI6IjgvMjAvMjAyNCAxMjozODoyOSBQTSIsIkFTRGlyZWN0aW9uYWxpdHkiOiIzIiwiUGhpc2hF ZHUiOiIwIiwiTXNnU2NhblN1c3BpY2lvbkxldmVsIjoiMCJ9[

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^xyv~_*;\rCd7j1x+K;]%sC[GUB1 +& p /pG$@$e]Z-/

euc9&T~@8DB:p1uIL1wmbc2}-8oVyp]v%UPAN=T9affw?2:/o%D%?G6;~"27x/ C{ 6G>\yQqh

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 5~uE 8CYQn,qn3g]tfb}cQP;^,_=c e81LcL+g;;?j1<m<8

!P49Ss9JRjGh DH0Yq8p]b! m:7 M/_j9\?L-W!\pNgOIOO},36[6.%&nqO"Q{ {#_FFr.xLMTy=s5v{rq!Kq@ugx

L)+Lz{Gsj23 >Z;[qmXyYBe{$@E]gY1rCOy^ m7_SPdMD# =%coH D@(

z ygAakyK7Lh;X:$Z83+]UTf0c.Ix8nvgQm\+2fvI+GD}(s~@cWe

$paUzy 78?~>XkWc0`&n'_Lp ,))ZkjbvUJZZ y,{\h/8qFRsU1LDb?q6)__)VqK$A

pGPL88Ge"9'^+6ch)w3~];X s+g[YcvH&mjw:${X#(0#THK^ gs\gF|7*NvM$@$;\!;~<H

r.ZUpUT;vt9Zb!19PGA3^~C>14>*3fp.Ua :z)>jNf

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+r2@Bf.wSP~*QpGpp\Y$Fp3o^a+uU,>#+yv4V\1|\`P} 0`8.dYW$K2sf"H (d{/EuS^w

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7$@$fGb1/b&N%J<q|)M~$6?u;
EU9B#%Kgu=Xu?o@?Sg}(@^_mUV$3eKs0e9RJ(7={t222'K2e$!!A6m*zG>kN3:1j3fSNxE[7]Ke|Pvm]'Nd"
mQFgOc2iy')))V&/}z+VVO>4lN>d0`3>
@W7xCpp<\=4kQ:ukg|RuSSSs~Z K/MGRF
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&w)9%4AmKN?t3gN>.7xcSN(vD/\~mnk.q/,7tq6{UNu:F;{vdYAQ/F:CcPKe{6HQsL:}tq+_`8
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{P7/r}//=m{9g4h,J[PB{<n"YfZ08 Y)wj7%UpP*0$ha0${uFPJZG}$|=am\0e0F*1w^8p
%=$&&FG(~<3xL]XANE@9h!RJ^-r
    g!{IC
jktxeQtKra7c.qGeUAcmmr 1X;~:.E.X2e p!4nkVK!o
HuNYxf@fvfACFNEQ<D0b6!P{+p}S@F`P Vc)%<OR&Yd@y3p<44T0!0X"!f@03`A#.'3.0V(K_|0IHHHHHH,h*
GVeRm$)1Po}FXwd[qR=A 4'E9p=9R/A>80!,#r
xBp3us43 `(M('E7@JK/+l[(m! `dr #f[A0Xe:916eM'sK_A#1g`Xl#uGwax'rJxkWNom8}$@$@$@$@$@$@$p>pi+5
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y|0D0(C=$2x%p`<`T1M; rB6g11# bXz={CrO$@$@$@$@$@$@;g
H"`t7!;xAC~u7m'.\B!.#Hjnfqia-dHBPRJX(! 2&poW^@x#xcfr@o&\(_[n':Q5lA0*_fS0nV#NCY_+WsNK]Haa9
8 p~ 1BH
fxC:F8(6b_|LizmqS~GInW9 LvRCJ^xAL p':b P~#|`o~>%3fn-ku_aqeJfcpA8?$uM[NsZZPFNe!f&X
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N(Z>}b)[Kie]pB8::ZL|??6l mu'1 ,hB4i>xky
uky/Em{O>qk}unAofb8BM`2o{]GSC~m{R| y!!0 48sM6PI81dP9,@{Nkxq
\%8w @A
E5P_veyk3gbC}-P>kD/oO?
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x?\(-3&B8YF wsX9-(ol\kfU[ZEt'8"dh0 L F={o)_
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wU0b}5E|rCa`FA}R|fFmV?G87|WP%Bh4PZ$p`dgB8%/Xg"O?TI}Fbf$xA1a@"n;/G{.>^p~E~WO$EhzJ?HCNll6=
dnrHHHHHHHB JLr~EV`/W_s='&y.$/7,[%,<r<3^5aDJ*>=+JW_}Utn7U0+PC-S7!T0|]?yRS%-~0G(P Wp>QXZJ
}q0:!)`5>mm&Sq!00b]HfPHHHHHHH|P5.RIrf2N-z{Ix
w;=3Ycd$rY6B*IhQZQj/@<x(0sN9pG%Q>:wFFitE~o[6<x7#:!%!{xpi}a(@H+Dl`6I]"R    `+rHH$jQ
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#0SY4m)fX?   TH4T" s?aHHHHHHHQcPJp8)BPY]"$ {@ $aUjDdf`ORHT
JXDI$@$@$@$@$@$@$@$@$P1 A @)jL %)I9zU0TDb$
{\`!aun*^}J}$<Th($@$@$@$@$@$@$@$@$@$KTB #gJ*Oc@Pd!l@@v,>uJA%-
J2dgHLW3'0Ac@@:vd.)X;+SN0   0J `ZHHHHHHHHHHHL8IW(@IA^   (Gh(G7]!
"@@Ie$@$@$@$@$@$@$@$@$@$@$@$P PnB$@$@$@$@$@$@$@$@$@$@%E *}V$+}`R~quYZ:
{"A>m`$@$@$@$@$@$@$@$@$P^ ArFefvyq~+X+HW6ddr6;VN:@eW6(e-=eHHHHHHHHH@!HJNlI *I@

`oPC}zMOV%P "M6I    (J -Ofcx<rC FW`poB ~k`G`53 ,V#HpHHH4   7@q({OCYrPRN P\t
3GpNb9!0Ac@v2g8a*}!&g+*^SAY0   @Y`IHHHHHHHHHH
 PJ   %>&   R"@@)f3$@$@$@$@$@$@Ft*@IDAT$@$@$@$@$Ph(KlHHHHHHHHHHHJ
    @YA,m   (%4h6C$@$@$@$@$@$@$@$@$@$@@eIIHHHHHHHHHHH PJ   %>&
R"@@)f3$@$@$@$@$@$@$@$@$@$@$@$Ph(KlHHHHHHHHHHHJ
    @YA,m   (%4h6C$@$@$@$@$@$@$@$@$@$@$@$eI ,g$@$@$P K]2%"4PMHHHHHHH
Dba (j%z"&3S{+eGOC7~=e`#%~*[
tI:uJU N
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w7Q   @&@@? F!?SJ;+M}'ZS$wL.Y7]'OI ;CF.?fhUk{+%&Kzk(A2%HF- XUke_ri##I4S~]/Z<%"<gy,0}\Yr8yR
ThYoM*   @YA'(29t[N{;?P)J[65-[)}2<x_~Zk_$dKRbS
NW*Kt'Ks0w3xI:%++;_`gITYnfM)zs
:"}9y2{whLf,ZV O@o7x%5A!   D
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PZ;vL6o,|[>#=[r+VwY]g_}|(ZtlJc/P[-ChR?XF\XPb0>{+l
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{ymJN6MCaoC!Ct;k/gb6*2'B)6lR)+jdtV({Az(c\-fz>j=TuBNU0Eamq\?[fI^iK   {b)
(vkvyo!}^8qhROC2n8aJ?Oy,]&vVP2@_SdTT<jvl.NVWE.0W<Ki8H$}$k"^K*+CUVnKOgU[2=hV/Dz 7TkReOo-
U~ |ie^^~;%SJ'RN"#&uV~^"|J2-3NPMw:*'%bHy$t)okG+YsUrkdr Mur|"[d2;/:^/M;du{!9|$A*U
hy};+dX,P?:H7z-jzB?W(s/+WukWV?F*hs@KqZUuN.^ia{OY%9?fS_y569f#@?v
v(u.YllO$z2Sx;VLN>P85K/51>FOH/}z&Xc,Hm=<*tRSrMg!>>rAVr'JyYYd1IW
Vu{IF3~Ucx}z^MY>@>gc7>6Z-R}L}oP!/Hc[v{]&
  (^4/OF$P \RR.]>+ygedYzo6^BxRhuRJ$~F'EP-*HzC2"SiiI2WQdRJJUINa1
{8^g*Hv\"O=6)>sT2Z1[j\XjS'db2*Gjl)soTy(Yk4e >
]m#*U*>Z(N<~BQ.:7I?~B@Ocs 6vg[.}yN~x#6/8fNt|>1FS

Jip;x\|]$a~Q,2U%vra7G!2<~qj^vv{([}Q_ks\&uxhlC>W>XKF
96\[2QrrlSV,wHPpeA}@B?^,_Q9K)+]VA@pNxR^~c}q(w?Ir+_r/~"*'N&)U]p~Uca9Q}|<{29[ezcpBavYKz
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KPRne[q.c@!rMJrX)Q&rkGk(/mN6\]m"K6iEk/}y\v5B=^6Q>2.rR P:U LQv*2#uyX<)cv)n2`Dq5[d5aTdu4k8PM|zt
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9<>@aV<0M;mh\&|Iy@A^2/YN-J{\9^@_dVYU6o%-5:eO)!Q
~xwppW-8Gclv)j,]AXOWwnfnx&~6W[u5&0aU\nmVw:24L!j%wVgcGLfOVD$]~}gW0cwiJArbYD|-IHHHH
5
xw=ZOHHiBV;6n6ydui&iGNoKq2O\?~2KL<C.(SSjeI_;f]zss7"/>RddCQ[[cM9:(c{H%eTS!Z=_=.{fH}7sS=HuO{
U]#of.:#Os_|BvxKIr AxKPWF
>)`$.*PQ2:DWHzNJ0{R_FiD.urRFvHduS5|E/
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a:rZyV3<B3=pPe(mBySn`*$YRB7?N|:U?Z^~c=05*r~SS{7B77-pi+T+0Rzv@`:v#]&'<Q-Ey:4k
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>*J$@$@$@$@$P\%' p=zSjc_,$F0K*;v:tPTXv+I.J $&0g(oJz@Ss2T~'ItlJ2Z<2`-{EJ+PWUBZ1nc]#fkXblm1PGU
YWs-ucBUayU0x}b!F,^m\uo^{U1Z2U!:On]]Q GdHE}PZ#Od`uG((!69u<ho7Q8(wi`/_U(m'{Wu-Ve)V)9rb!
v+`A{o!k*OPDG|>z}S Ka$!'>fk~7KxXT.4lPQ:G(PBG0nj0e`~m=WN2P?S#   (Ay+X5 $8p+I7o
x<h dΓ`<xl(]AjdWra oI&<Oe73ty#Oh61oR3-
GHWx0?.E9tk6{xn[|1tAf2U>U,oNS.][4kv;=L^FGhU[bc9N5m&$x*b0;x{Ktg#k==$8G)3i1u(e)B9Iznxi':.$FtlcV,r~
y? ^v 9mt(b&/ga5tP{'i{w)O(<!!vsNUKe,E'<74<8d&IFHpBfo] Kd?'#NDj*rq=;:PKzOf
m<ru9)GxB$@$@$@$@$P^nlH@(^Z
&~-[T|nvYtiA&W\!y9=*/ =BtR'6cUum5TXc\%fwy(_7WJGaWVeLye @3.v#_[Y=r12zU-F7mUV__bctRD*
G]1Mx#ERnT,YV.tJ~XKjj+Qy'ty(dTnr;zY'N&f7}wc \0
[])(f;:f2UU7r?XR1_VCn'Td*xOxB1~%0OGcDRd< 8$l6-O8gx~I]NaHLC!
(76B$@%O}gIT$y_h{1y9z\QrX[#I&<Py*maeRCbTd=^1|ILIi0wzA2xyC%uYT1,I]o=S>G]LrC_swX6]^Sp]'O${v
R=Uo@?Bv^qQ+eam'WWRrsH]RMyD8G'<Bv:%
 P527GsdP>>K_wg?T.f\8!"V5/oUr>oF%a6#-0QY!   !@@pf+$@jE(>>^>} d>9q
D&07]
iQy$X>co
S}x2xX\f<}[5yri2{Y>MdyaduB Wb8BU2y
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~O'$5(SS,Vrs~Y3   #@@fK$@@tt6$'{z(!lk7C_"eA\;2d2!_3CX-k>/qA`s{g*sscZ} +#o&/g!L(3JMW=19y5
b4ytW0rkB`ZN<)P?$[>tnQ*-S]';R#BB/1U
f
dYHN s;De-DFFHrrXg/Si_]x.U((#fB 1hVc&?K3o6SSF
BV Px0eh/e{wy5B$@$@$@$@$Pz)=lH [u/Zv%4win dYHQUrKRdnNt_.=n-SE~<16Q{u\M;3Mf.s

*HNSL=7u8%iT3X%wum{]2d^zzze8 Vt &7PDS+[1xPCbscc;.&`7nPGe1+".

:mP!b[zDLUgerJ$ddV_?_s.Q5u@eG_s@>Z&<-<qjo

Yvni>   '@@#f$@O>B3 t[r.o^{MRRRT\r58/FXZi5cV'%gWs\><E~]*B^#W+G;flwPA#"W&Ip,2 r\{+)/

~A9pLyqj>\/.S/y3q5*_A=BuZy-

BlR!OdEnfNm<\:5kBcfcf5O+ji?4J9<{~Bv'u&R]o?wS,[[UcV*oW/Eq0}<RFec/d$U(-

$k0D%S9JA;k6ly%u]\KWvy2Y`*w<O9+;;{&    (a40`VO$Pzue)rUWo;sg5j!l$-

nSC+="fJ(Q(@}.hXIR39I>Nn}#c0_H<SOKr?[pCQQN^<{{GkI.%_/f*T}Dx~(2_ ts]c2kKjvP@BUc1{?L&\#GS{g

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7s`.w^I4]CT I]{yK)>_z3e0',[AA,/UkISgt\eTnXK _#v@y

c|)U[]]"]7ca]^Ei]f9cRop_g1`Kho{Ms'%)#{#$[#!O}Nq}Y8q[5o16one<6PyC>{mR 0~!V)$@$@$@$@$@H

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t%X@8iV_oyQ1T1?j

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#oW}FRJXBi5ko}Y)?4M3|Ux0@0Ka}*\qPXH.W&ZN)NQ(cVht3`A]> kD!*AqLz'(1(u1*F=-

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7_uq8b^2_})hRBp@_5Pr8yR++GBfs.PBrT]gjvDB!4U37?c#820j`?z2${T5DWSIV5eH8cU!asaD1xe2-

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/ @ @:0@sw{Zt4Z.h/zY6oBi::x/46.#8Xxoh5wnu.\bE3^]Fm-(@
@s[{.w)[mz,mL:Cwi:J,G=jhS&_,La%am{KYAJ}N6}&u,OC?4Uw\r-O>> @ @k38y:?^[gLK:LLLTj\sJrA{
mx^VnY7'Eewn6|^Q!?tfy=>?G>CL?C+ @ @`F3bZgyDYQU7a,nT0/|/<o
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 @ @M@@`nnVI{c=v)Wzs*zlS_$Mmnsrc&=S,||OKFN+iw[`~Z7q7/|yX9I'4lpeo=[~T|y?% 'PJ@fN~6t}'}u-
uOovaYgU<o[|4d29tvn--[GY<zGn= @ @@
vYE:|\sUCxFySZ2`zky;YvmHtT/3wu&Ib:o6myTZ+u9&6)9udCh_|X9_3|&'w'okL7)@%\2%IQR=rm2yt:k^)u8;
wN;mr\~%[mxp+g]^W63nt[2:U|nIvr-g[tnMys'< S>% @
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9I__substg1.0_00710102*L__substg1.0_0075001F*24M485893FEEE6A76AD1BA6-AMAKOTHALicense URLs

and Parent component details for Windows 2019

 LTSC image6G~M{nHEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDL__substg1.0_0076001F*N__substg1.0_0077001F*37R__substg1.0_0078001F*S__substg1.0_007D001F*68%4$T)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-

MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-

MMALAYAN<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.pReceived:

from CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17)

by DM4PR11MB5407.namprd11.prod.outlook.com with HTTPS; Tue, 20 Aug 2024

12:38:29 +0000

Authentication-Results: dkim=none (message not signed)

header.d=none;dmarc=none action=none header.from=cisco.com;

Received: from SA2PR11MB4793.namprd11.prod.outlook.com (2603:10b6:806:fa::8)

by CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17) with

Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.7875.19; Tue, 20 Aug

2024 12:38:28
 +0000

Received: from SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef]) by SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef%4]) with mapi id 15.20.7875.019; Tue, 20 Aug 2024

12:38:28 +0000

Content-Type: application/ms-tnef; name="winmail.dat"

Content-Transfer-Encoding: binary

From: "Aman Kothari (amakotha)" <amakotha@cisco.com>

To: "Marimuthu Malayandi (mmalayan)" <mmalayan@cisco.com>

CC: "Salil G K (sagk)" <sagk@cisco.com>

Subject: License URLs and Parent component details for Windows 2019 LTSC image

Thread-Topic: License URLs and Parent component details for Windows 2019 LTSC

image

Thread-Index: AQHa8v020JWnR34fHE2Oj3tu5q9IEw==

Date: Tue, 20 Aug 2024 12:38:27 +0000

Message-ID:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

Accept-Language: en-US

Content-Language: en-IN

X-MS-Has-Attach: yes

X-MS-Exchange-Organization-SCL: 1

X-MS-TNEF-Correlator:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

MIME-Version:
 1.0

X-MS-Exchange-Organization-MessageDirectionality: Originating

X-MS-Exchange-Organization-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-Organization-AuthAs: Internal

X-MS-Exchange-Organization-AuthMechanism: 04

X-MS-Exchange-Organization-Network-Message-Id:

ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-PublicTrafficType: Email

X-MS-TrafficTypeDiagnostic:

SA2PR11MB4793:EE_|CY8PR11MB7747:EE_|DM4PR11MB5407:EE_

Return-Path: amakotha@cisco.com

X-MS-Exchange-Organization-ExpirationStartTime: 20 Aug 2024 12:38:28.5883

(UTC)

X-MS-Exchange-Organization-ExpirationStartTimeReason: OriginalSubmit

X-MS-Exchange-Organization-ExpirationInterval: 1:00:00:00.0000000

X-MS-Exchange-Organization-ExpirationIntervalReason: OriginalSubmit

X-MS-Office365-Filtering-Correlation-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-AtpMessageProperties: SL

X-M365-Tenant-Cisco-ID: d8eb5f98-55ca-42f7-92f6-452cfa7add59

X-Microsoft-Antispam:
 BCL:0;ARA:13230040|366016|41050700001;

X-Forefront-Antispam-Report:

CIP:255.255.255.255;CTRY:;LANG:en;SCL:1;SRV:;IPV:NLI;SFV:NSPM;H:SA2PR11MB4793.namprd11.prod.o
utlook.com;PTR:;CAT:NONE;SFS:(13230040)(366016)(41050700001);DIR:INT;

X-MS-Exchange-CrossTenant-OriginalArrivalTime: 20 Aug 2024 12:38:27.9860

(UTC)

X-MS-Exchange-CrossTenant-FromEntityHeader: Hosted

X-MS-Exchange-CrossTenant-Id: 5ae1af62-9505-4097-a69a-c1553ef7840e

X-MS-Exchange-CrossTenant-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-Network-Message-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-CrossTenant-MailboxType: HOSTED

X-MS-Exchange-CrossTenant-UserPrincipalName:
3w+lEr5Syz6Ul7XhnjV+ziQoyeAButBZPWvDHcUEHStczQepJ216vYEgy1ezPTqd4EYOSjEcvIT2xgXlBIYKgA
==

X-MS-Exchange-Transport-CrossTenantHeadersStamped: CY8PR11MB7747

X-MS-Exchange-Transport-EndToEndLatency: 00:00:02.0031318

X-MS-Exchange-Processed-By-BccFoldering:
 15.20.7875.019

X-Microsoft-Antispam-Mailbox-Delivery:

 ucf:0;jmr:0;auth:0;dest:I;ENG:(910001)(944506478)(944626604)(920097)(425001)(930097)(140003);

X-Microsoft-Antispam-Message-Info:

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gOIOofPOdIja1q77FBx7qq8Y0sX4RYZBvBrmIeR56lXesU7kmBlGa/eHcSgqNhg9hKaZXVZC3Grl9u4Fp4Bm0M
Kugp2QrEAAM2aNn5pmvb1UVXR8+stxZhc9e7OBLFLXYC2hqWknvkWEetYmKRl5zvjlUfXtIIYLBRRPYGHc
5GCmlLHcQ==

__substg1.0_007F0102*WQ__substg1.0_0C190102*5=Y__substg1.0_0C1A001F*\.__substg1.0_0C1D0102*:<]rod
.outlook.com>@B+//o=ExchangeLabs/ou=Exchange
 Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f1485893feee6a76ad1ba6-
amakothaAman Kothari (amakotha)EX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
AMAKOTHA__substg1.0_0C1E001F*`__substg1.0_0C1F001F*;?a__substg1.0_0C2D0102*e__substg1.0_0C2E01
02*>@fEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-AMAKOTHALX
LX
Salil G K
(sagk)__substg1.0_0E02001F*__substg1.0_0E03001F*1Qg"__substg1.0_0E04001F*h>__substg1.0_0E05001F*B
Di
Marimuthu Malayandi (mmalayan)InboxLicense URLs and Parent component details for Windows 2019 LTSC
image)EUzgbOSIq:(Zi%:(Zi%__substg1.0_0E1D001F*j__substg1.0_0E4C0102*CGm__substg1.0_0E4D0102*n__
substg1.0_0E4E0102*FHo__substg1.0_0E580102*p__substg1.0_0E590102*EMq__substg1.0_0F030102*r__subst
g1.0_1000001F*JLs:(Zi%:(ZiAG~M{nHHi
 Marimuthu,

As per our discussion over Webex, please find herewith links to Licenses, Third Party notices and Image details for Windows 2019 LTSC image:

https://hub.docker.com/r/microsoft/windows-servercore

https://3rdpartysource.microsoft.com/

https://www.microsoft.com/en-us/legal/third-party-notices

https://github.com/microsoft/containerregistry/tree/main/legal

Have also attached image depicting parent component.

This is in reference to -

SBOM: https://corona.cisco.com/releases/331413/images/1186257

TPSC scan: https://tpscompliance.cisco.com/compliance/product-releases/product/1343902673/release/2143298352/commercial-bom

Please let know if any other details are required.

Thanks,

Aman

bLZFu*
rcpg1252Chtml11bid0
'ch
set0 PVUUQW2U3FYkcu ;B7
134R`cP dL364 *\9 < x:o="Ipn:hesL-m
`so-]m
e!"w /!?# d"m#@tp://U#.$'.!/!/04/ (m"&Gw*`.w3.g/TR/REC-40">cAead+k
-}6__substg1.0_10090102*__substg1.0_1035001F*KO__substg1.0_120B0102* __substg1.0_300B0102*NP<

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lna#@G at"0 t#@M$6 W% 15 (" qPum)+ /s0tyle4//!-B-

/* F! Diti */

@-fne

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n$`pe-1:p023=06==a`}8{9:A0$`</=310pCV>7qSG5r7

p.M!PNl, liFZ}PvFX?*:0cmA?#z"0yB.00J.:A3",sqKrAm!P-Gg0p#nd1SxO1N|?pP#!`ngPg"0EN-
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owP>FRChpEau\]P_@ - ;J/K?QR>

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w0&;xk}%+|@G1@`#@r+{! [6],pfFg4~85A<zxS@OTH&i;mu;u,5,o^pu@w?5&<

(

8w^/A U aG.u8avWebPFPjQDE12#P;{C 1 L"FThi2P

w@00o8P" P Il1 c3 !LTSC pj\/zr \[/_o8,0 hPf&D&b.cPck'r/$'*Pa""etldrfw0{@HYPERL{K
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w@!Pp" 'Mo'M??/?Oog*b'\5 -P/w`Opl/;!Vr-O_nO_o@?/?O_oI@'81RPIw0ry T_oT?

?//?O_!

,-#?O1OO&'5)*,0.//?@aS0@Ocx`ppZ`jj1PX!_1P./?OI?JOK_15689:/;?<O=_>o?@W?BC[`r^Qn"-
OPQ/R?SOT_UoV\XYZ[\]nOoSSBOM:

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b@xy~/?O?/?OVPqeH@kwg`4py

 Fr?GAaF F

`quFH_ohpks,Awn_obOc_doeghWij0/vSg5p/dy"74}<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2P
R11MB4793.namprd11.prod.outlook.com>bLTqGo09

js

+QWY 13579;=GIKSU]'?"B@Q?*%)-ACE2[:B/Marimuthu Malayandi
(mmalayan)__substg1.0_30140102*__substg1.0_36770102*IYJ__substg1.0_3FFA001F*<__substg1.0_3FFB0102*
RT@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
AMAKOTHA__substg1.0_4022001F*__substg1.0_4023001F*SW__substg1.0_4024001F*__substg1.0_4025001F*
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(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-MMALAYANAman
Kothari (amakotha)Aman Kothari
(amakotha)8357352A9AC74291872DEE4575F68898__substg1.0_4030001F*.__substg1.0_4031001F*U].__substg
1.0_4034001F*R__substg1.0_4035001F*Z\R-MMALAYAN8357352A9AC74291872DEE4575F68898-
MMALAYANAman
 Kothari (amakotha)Marimuthu Malayandi
(mmalayan)amakotha@cisco.comamakotha@cisco.commmalayan@cisco.com__substg1.0_4038001F*.__substg1.0
_4039001F*[_<__substg1.0_5D01001F*$__substg1.0_5D02001F*^`$__substg1.0_5D07001F*$__substg1.0_5D08
001F*A$__substg1.0_5D0A001F*$__substg1.0_5D0B001F*bd$mmalayan@cisco.comamakotha@cisco.commmal
ayan@cisco.combZ@U>sip:amakotha@cisco.comp;I%xOM%Op;I%xOM%OXxOt__substg1.0_5D160102*__subs
tg1.0_5FE5001F*cg,__substg1.0_65E20102*__substg1.0_65E30102*fh__substg1.0_80080048*__substg1.0_800A
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yaXRlVGltZSI6IjgvMjAvMjAyNCAxMjozODoyOSBQTSIsIkFTRGlyZWN0aW9uYWxpdHkiOiIzIiwiUGhpc2hF
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  "@type": "ExtractLanguage",

  "@context": "http://schema.microsoft.com",

  "@outputVersion": "1.0",

  "@source": "Bling",

  "BlingDetectorType": "ExternalWithHints",

  "TextLength": 700,

"LanguageScores": {

  "English": 98.21429

},

  "Language": {

   "Locale": "en-US",

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   "BestGuessLanguage": "en",

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  }

}

]InternalClient=OutlookService;MacOutlook/16.88.24081116 (ARM64 Mac OS X 14.6.1 (Build 23G93));[

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  "@context": "http://schema.org",

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  "@entityExtractionTrustLevel": "Unknown",
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  "length": 53

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{

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"@schemaOrgVersion": "1.93",

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  "beginIndex": 0,

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```json
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    "@correlationTrail": "ExtractionId=69770f49-18ba-42be-94f3-86839da8be1e;EntityId=a462621e-0c87-40d4-b609-0240ea9df4be",

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  {

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    "@schemaOrgVersion": "1.93",

    "url": "https://www.microsoft.com/en-us/legal/third-party-notices",

    "url/urlTextSpan": {

      "@type": "TextSpan",

      "beginIndex": 0,

      "length": 57

    },

    "@EntityId": "c5c5602a-d6cb-4f8e-ae60-893ce3f4b49e",

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    "@extractionTimeUtc": "2024-08-20T12:38:31.2876725Z"

  },

  {
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"@entityExtractionTrustLevel": "Unknown",

"@outputVersion": "1.0",

"@schemaOrgVersion": "1.93",

"url": "https://github.com/microsoft/containerregistry/tree/main/legal",

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  "beginIndex": 0,

  "length": 62

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"@EntityId": "13565f67-aa5b-4875-b270-a914e1e2f098",

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  "@extractionTimeUtc": "2024-08-20T12:38:31.2876725Z"

},

{

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},

{

"@type": "ContactPoint",

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"@schemaOrgVersion": "1.93",

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"@type": "TextSpan",

"beginIndex": 0,

"length": 112

},

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"@extractionTimeUtc": "2024-08-20T12:38:31.2876725Z"

}

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7b6ee6af4813;IDXHEAD=01DAF2FD36;IDXCOUNT=1];TFR=ThreadForkingIsDisabled;Version=Version 15.20
(Build 7875.0), Stage=H4;UP=1__substg1.0_8016001F*
__substg1.0_8017001F*iyb__substg1.0_8018001F*J__substg1.0_8019001F*rt&0;DP=1;QT=9;CPBT=2001:420:5
448:1301:c5f:d8ba:9966:de692603:10b6:806:fa::8SA2PR11MB4793.namprd11.prod.outlook.com04BCAT=NotSur
eDueToNoApplicableRul__substg1.0_801A001F*N__substg1.0_801E001F*sw__substg1.0_801F001F*__substg1.
0_8020001F*vx

!"#$%&'()*+,-
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https://corona.cisco.com/releases/331413/images/1186257 TPSC scan",

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gCI$@$@$@$Pd PdI@zRJiSX/b<}Qrecb~AmV w}'|$&&F]6B&X{=>jVyff<wb)R8Y@LSFMrI $V1kWYjRmyV
@$vU
otDS& &@A /G$f#-[~AHUVb@8
 pKMeA\tE0C4(
0saVZ$E/"Vw'F V a.|aJ>
w^'5,-K+?!$.[2Js!.1CG)_:sh/7\;G pQ<O8 mV+?}W 4TRW{

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| yb@-K.k
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e<Cg! @9N?jw"# "
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6aT|ytNG<;D;8+YgTuSJe%2yRfMg1I # /6U=z3@"F=x)IvDupTz)Ws@T1 lm(d# *FR.K$#p'Ju4K_WOH
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7 +cP[79U-,# Hyfqc9Oc-k!i_O#3//f|3[o@p

kUF$@$P0@^- ;wl82 #pzg+f]wu#-sU2|p{L}>s4igbc.6FoV(H}Z |^5o[:/_.[n

4cGu!6jI_MN;SC[v}GH[of|S7f3\hktG^Hol4

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UI[+mmSx~}]$,8D+e}\r9&imH+Yn\1IN8O8lVVgrI$fn)33~Uk/HfdWG0[Sd1]\?y0g[kPe{dsz$Tuk'0~sg?n/mIH1}

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!P49Ss9JRjGh DH0Yq8p]b! m:7 M/_j9\?L-W!\pNgOIOO},36[6.%&nqO"Q{ {#_FFr.xLMTy=s5v{rq!Kq@ugx

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mQFgOc2iy')))V&/}z+VVO>4lN>d0`3>

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IRankerScore1.0__substg1.0_8012101F-00000006<k&__substg1.0_8012101F-00000007<l__substg1.0_8012101F-
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# 1.47 microsoft malware protection 1.1.16330.1

## 1.47.1 Available under license :

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MsgData@AntispamSafelinksIsIntraOrgEmailFEntityExtraction/ExtractLanguage1.0>EntityExtraction/EmbeddedU

rl1.0Bx-ms-exchange-organization-

authas:InferenceClassificationResultClientInfo2CurrentMessageSafetyFlagsEntityNames,HeaderBodyFragmentList

HasQuotedText&IsQuotedTextChangedacceptlanguage6ConversationIndexTrackingExdx-ms-exchange-

organization-originalclientipaddressdx-ms-exchange-organization-originalserveripaddressJx-ms-exchange-

organization-authsource,LatestMessageWordCountIsSignedIsReadReceiptPx-ms-exchange-organization-

authmechanismBInferenceClassificationTrackingExTeeVersionTeeNextScenarioTeeNextPayload.EntityExtraction/Url1.0JX-Microsoft-Antispam-Mailbox-DeliveryBX-Microsoft-Antispam-Message-Info4InferenceMessageIdentifierNEntityExtraction/KeyPhraseExtraction2.0,x-ms-publictraffictypex-ms-has-attach,authentication-resultsNx-ms-office365-filtering-correlation-id4x-ms-traffictypediagnostic6x-forefront-antispam-report(x-microsoft-antispamXx-ms-exchange-crosstenant-network-message-idZx-ms-exchange-crosstenant-originalarrivaltimeTx-ms-exchange-crosstenant-fromentityheader8x-ms-exchange-crosstenant-idJx-ms-exchange-crosstenant-mailboxtypeVx-ms-exchange-crosstenant-userprincipalnamebx-ms-exchange-transport-crosstenantheadersstampedNx-ms-exchange-transport-endtoendlatencyNx-ms-exchange-processed-by-bccfoldering@x-ms-exchange-crosstenant-authasHx-ms-exchange-crosstenant-authsource>OriginalInferenceClassificationHGriffinInferenceClassificationResult:InferenceClassificationReason2ClassificationDiagnostics2ConversationContributions,ConversationWasFocused4TriageHeuristicsFeatureSetBGriffinTriageHeuristicsFeatureSet:SharedWithMe/HasSharedContent,FocusedInboxModelScore.SharedWithMe/HasWebLinkDarwin/Url2.0@EntityExtraction/CreativeWork1.0xEntityExtraction/KeyPhraseExtractionPosTaggerTeeInference2.08BigFunnelCompleteIndexingEnd<BigFunnelCompleteIndexingStart,BigFunnelCorrelationId$IsPartiallyIndexed.LastIndexingAttemptTime.ExtractedFromTEENetCore__substg1.0_10030102*(__substg1.0_10040102*__substg1.0_10050102*__substg1.0_10060102*

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3IPM.NoteLicense URLs and Parent component details for Windows 2019 LTSC imageEX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

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02*&(2PDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
AMAKOTHA@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYANMarimuthu Malayandi (mmalayan)@B+//o=ExchangeLabs/ou=Exchange
 Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f14858__substg1.0_0040001F*5<__substg1.0_00410102*
%-6__substg1.0_0042001F*9.__substg1.0_00430102**,:93feee6a76ad1ba6-amakothaAman Kothari
(amakotha)@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
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MMALAYANMarimuthu Malayandi (mmalayan)EX:/O=EXCHANGELABS/OU=EXCHANGE
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and Parent component details for Windows 2019
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(FYDIBOHF23SPDL__substg1.0_0076001F*N__substg1.0_0077001F*37R__substg1.0_0078001F*S__substg1.0_
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MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYAN<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.pReceived:
from CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17)

by DM4PR11MB5407.namprd11.prod.outlook.com with HTTPS; Tue, 20 Aug 2024

12:38:29 +0000

Authentication-Results: dkim=none (message not signed)

header.d=none;dmarc=none action=none header.from=cisco.com;

Received: from SA2PR11MB4793.namprd11.prod.outlook.com (2603:10b6:806:fa::8)

by CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17) with

Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.7875.19; Tue, 20 Aug

2024 12:38:28
 +0000

Received: from SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef]) by SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef%4]) with mapi id 15.20.7875.019; Tue, 20 Aug 2024

12:38:28 +0000

Content-Type: application/ms-tnef; name="winmail.dat"

Content-Transfer-Encoding: binary

From: "Aman Kothari (amakotha)" <amakotha@cisco.com>

To: "Marimuthu Malayandi (mmalayan)" <mmalayan@cisco.com>

CC: "Salil G K (sagk)" <sagk@cisco.com>

Subject: License URLs and Parent component details for Windows 2019 LTSC image

Thread-Topic: License URLs and Parent component details for Windows 2019 LTSC

image

Thread-Index: AQHa8v020JWnR34fHE2Oj3tu5q9IEw==

Date: Tue, 20 Aug 2024 12:38:27 +0000

Message-ID:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

Accept-Language: en-US

Content-Language: en-IN

X-MS-Has-Attach: yes

X-MS-Exchange-Organization-SCL: 1

X-MS-TNEF-Correlator:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

MIME-Version:
 1.0

X-MS-Exchange-Organization-MessageDirectionality: Originating

X-MS-Exchange-Organization-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-Organization-AuthAs: Internal

X-MS-Exchange-Organization-AuthMechanism: 04

X-MS-Exchange-Organization-Network-Message-Id:

ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-PublicTrafficType: Email

X-MS-TrafficTypeDiagnostic:

SA2PR11MB4793:EE_|CY8PR11MB7747:EE_|DM4PR11MB5407:EE_

Return-Path: amakotha@cisco.com

X-MS-Exchange-Organization-ExpirationStartTime: 20 Aug 2024 12:38:28.5883

(UTC)

X-MS-Exchange-Organization-ExpirationStartTimeReason: OriginalSubmit

X-MS-Exchange-Organization-ExpirationInterval: 1:00:00:00.0000000

X-MS-Exchange-Organization-ExpirationIntervalReason: OriginalSubmit

X-MS-Office365-Filtering-Correlation-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-AtpMessageProperties: SL

X-M365-Tenant-Cisco-ID: d8eb5f98-55ca-42f7-92f6-452cfa7add59

X-Microsoft-Antispam:
 BCL:0;ARA:13230040|366016|41050700001;

X-Forefront-Antispam-Report:

CIP:255.255.255.255;CTRY:;LANG:en;SCL:1;SRV:;IPV:NLI;SFV:NSPM;H:SA2PR11MB4793.namprd11.prod.o
utlook.com;PTR:;CAT:NONE;SFS:(13230040)(366016)(41050700001);DIR:INT;

X-MS-Exchange-CrossTenant-OriginalArrivalTime: 20 Aug 2024 12:38:27.9860

(UTC)

X-MS-Exchange-CrossTenant-FromEntityHeader: Hosted

X-MS-Exchange-CrossTenant-Id: 5ae1af62-9505-4097-a69a-c1553ef7840e

X-MS-Exchange-CrossTenant-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-Network-Message-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-CrossTenant-MailboxType: HOSTED

X-MS-Exchange-CrossTenant-UserPrincipalName:
3w+lEr5Syz6Ul7XhnjV+ziQoyeAButBZPWvDHcUEHStczQepJ216vYEgy1ezPTqd4EYOSjEcvIT2xgXlBIYKgA
==

X-MS-Exchange-Transport-CrossTenantHeadersStamped: CY8PR11MB7747

X-MS-Exchange-Transport-EndToEndLatency: 00:00:02.0031318

X-MS-Exchange-Processed-By-BccFoldering:
 15.20.7875.019

X-Microsoft-Antispam-Mailbox-Delivery:

 ucf:0;jmr:0;auth:0;dest:I;ENG:(910001)(944506478)(944626604)(920097)(425001)(930097)(140003);

X-Microsoft-Antispam-Message-Info:

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YJnFljkJ+hSlkY4y0Rn3fqRwUGkWtgs1552bL0u7TyxWdKYz2fvBCwTkfGjUHcTkYJADNZ9MGmZUf3X2ovL
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GfgL4yZbDwgjYDnkA0kK271yHAHUFqSqrIWVm2TUTQpAIxHAzOmntq10Z2XTD0sP2eUsDXoliSeBx3ZTnF
hccFvXbdz6wVb0lIPJoTj+hvODA6H+5w/5lkeHyjDH8rLrkYzgMlhc4z0IRHKF3JYRj4G1q/mtp7NiOCefO0EhaR
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gOIOofPOdIja1q77FBx7qq8Y0sX4RYZBvBrmIeR56lXesU7kmBlGa/eHcSgqNhg9hKaZXVZC3Grl9u4Fp4Bm0M
Kugp2QrEAAM2aNn5pmvb1UVXR8+stxZhc9e7OBLFLXYC2hqWknvkWEetYmKRl5zvjlUfXtIIYLBRRPYGHc
5GCmlLHcQ==

__substg1.0_007F0102*WQ__substg1.0_0C190102*5=Y__substg1.0_0C1A001F*\.__substg1.0_0C1D0102*:<]rod
.outlook.com>@B+//o=ExchangeLabs/ou=Exchange
 Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f1485893feee6a76ad1ba6-
amakothaAman Kothari (amakotha)EX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
AMAKOTHA__substg1.0_0C1E001F*`__substg1.0_0C1F001F*;?a__substg1.0_0C2D0102*e__substg1.0_0C2E01
02*>@fEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-AMAKOTHALX
LX

Salil G K (sagk)__substg1.0_0E02001F*__substg1.0_0E03001F*1Qg"__substg1.0_0E04001F*h>__substg1.0_0E05001F*B Di

Marimuthu Malayandi (mmalayan)InboxLicense URLs and Parent component details for Windows 2019 LTSC image)EUzgbOSIq:(Zi%:(Zi%__substg1.0_0E1D001F*j__substg1.0_0E4C0102*CGm__substg1.0_0E4D0102*n__substg1.0_0E4E0102*FHo__substg1.0_0E580102*p__substg1.0_0E590102*EMq__substg1.0_0F030102*r__substg1.0_1000001F*JLs:(Zi%:(ZiAG~M{nHHi

Marimuthu,

As per our discussion over Webex, please find herewith links to Licenses, Third Party notices and Image details for Windows 2019 LTSC image:

https://hub.docker.com/r/microsoft/windows-servercore

https://3rdpartysource.microsoft.com/

https://www.microsoft.com/en-us/legal/third-party-notices

https://github.com/microsoft/containerregistry/tree/main/legal

Have also attached image depicting parent component.

This is in reference to -

SBOM: https://corona.cisco.com/releases/331413/images/1186257

TPSC scan: https://tpscompliance.cisco.com/compliance/product-releases/product/1343902673/release/2143298352/commercial-bom

Please let know if any other details are required.

Thanks,

Aman

bLZFu*
rcpg1252Chtml11bid0
'ch
set0 PVUUQW2U3FYkcu ;B7
134R`cP dL364 *\9 < x:o="Ipn:hesL-m
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-}6__substg1.0_10090102*__substg1.0_1035001F*KO__substg1.0_120B0102* __substg1.0_300B0102*NP<
 lna#@G at"0 t#@M$6 W% 15 ("  qPum)+ /s0tyle4//!-B-
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0{95$ ly:"C0Pb!0h"`9
n$`pe-1:p023=06==a`}8{9:A0$`</=310pCV>7qSG5r7
p.M!PNl, liFZ}PvFX?*:0cmA?#z"0yB.00J.:A3",sqKrAm!P-Gg0p#nd1SxO1N|?pP#!`ngPg"0EN-
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w0&;xk}%+|@G1@`#@r+{! [6],pfFg4~85A<zxS@OTH&i;mu;u,5,o^pu@w?5&<
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R11MB4793.namprd11.prod.outlook.com>bLTqGo09

js

+QWY 13579;=GIKSU]'?"B@Q?*%)-ACE2[:B/Marimuthu Malayandi
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1.0_4034001F*R__substg1.0_4035001F*Z\R-MMALAYAN8357352A9AC74291872DEE4575F68898-
MMALAYANAman
 Kothari (amakotha)Marimuthu Malayandi
(mmalayan)amakotha@cisco.comamakotha@cisco.commmalayan@cisco.com__substg1.0_4038001F*.__substg1.0
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  "English": 98.21429

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"@entityExtractionTrustLevel": "Unknown",

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      "@entityExtractionTrustLevel": "Unknown",

      "@outputVersion": "1.0",

      "@schemaOrgVersion": "1.93",

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        "length": 55

      },

      "@EntityId": "af484eef-5280-4c9c-8ee4-26da2dc6f0ba",

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    },
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  "@entityExtractionTrustLevel": "Unknown",

   "@outputVersion": "1.0",

  "@schemaOrgVersion": "1.93",

  "url": "https://tpscompliance.cisco.com/compliance/product-
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  "url/urlTextSpan": {

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  "@correlationTrail": "ExtractionId=69770f49-18ba-42be-94f3-86839da8be1e;EntityId=54072ad6-cc59-45e3-
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  "@extractionTimeUtc": "2024-08-20T12:38:31.2876725Z"

}
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7b6ee6af4813;IDXHEAD=01DAF2FD36;IDXCOUNT=1];TFR=ThreadForkingIsDisabled;Version=Version 15.20
(Build 7875.0), Stage=H4;UP=1__substg1.0_8016001F*
__substg1.0_8017001F*iyb__substg1.0_8018001F*J__substg1.0_8019001F*rt&0;DP=1;QT=9;CPBT=2001:420:5
448:1301:c5f:d8ba:9966:de692603:10b6:806:fa::8SA2PR11MB4793.namprd11.prod.outlook.com04BCAT=NotSur
eDueToNoApplicableRul__substg1.0_801A001F*N__substg1.0_801E001F*sw__substg1.0_801F001F*__substg1.
0_8020001F*vx

 !"#$%&'()*+,-
23579:;<=?AEHIORTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz|}~e;DNRT=Microsoft.Exchange.FocusedInbo
x.Models.Heuristics.DoNotReplyFeaturizer+DoNotReplyTypes;SCAT=SameOrganization;RFV=1032232302:-

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 "@outputVersion": "1.0",

  "@schemaOrgVersion": "1.93",

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  "url/prefixText": "notices and Image details for Windows 2019 LTSC image",

  "url/suffixText": "https://3rdpartysource.microsoft.com https://3rdpartysource.microsoft.com https://3rdpartysource.microsoft.com https://3rdpartysource.microsoft.com https://3rdpartysource.microsoft.com https://3rdpartysource.microsoft.com",

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https://hub.docker.com/r/microsoft/windows-servercore https://hub.docker.com/r/microsoft/windows-servercore
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    "url/prefixText": "component  This is in reference to  SBOM",

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,~J?] }.9hyywfla+~ Y2[%+a=+|E, @_$@$s0+s7o uLBSqX>}EcvYIKutep*8ap}X[

G>["nt-Al1F|q5a}NprG(8uLhq+<DcU/l^tB4p+&"1Sxp Г`m1C=t5\fh#s,<s]+@.Ex%Sh5mUTan6]|]gi=5SbR-

<#]x?o91i?)Mp{_47dRGwD|OwZZSR~Vpd+k,hsvdRu?;Qggspm.BlUa_V>\}YbvJAE-n+&uCeZ"~o8[Zu8o2,-
]Ib|DV(}PFN9v}

2EgCV7imPK?\fJ)r\1UUv|' @d# @~so .D6.49mkWw8^MfjuRi48Lua!Uq:'?#tur'# ;uA0=CVgeM[oY 1k1p
!p>];F:[p8eBLE= Jf@Yf[

yh3ZwDX;y<8qcJrd8.#4C;`Z Nvx5B48YB

EV6Yq9Zq ep[5.mt7>*d=6*Q<Zg_&k[]B/y,rC,tdpF!lW;Wpm8.K.0dpaJt

t#WY3s~ 2rL:E

5hD:X^yrgK2Y~m 0 dU

V' X&*p>:AUO'7|c%16

8p$-^1j3+VHXA:-g]Cq,t=@G

:axUP3V '"/XXq#nnPXmk9:s

}`NKrw(ae.=3AV3C{6B}6q2bL

;%D;qA+6'X)HK9;.#U8oPa.?=kd,V;>!o:%^ X%Hpc9Xw_05J,I@[7 uAYu

 uj r[Cr#ZR 8g4/#enae~o.5s

VaSLrFZy08[sJl?mn^urtwTZWCa@ ? @'p'(LwCqy7HCB-8k%5k?Q)x9"uK%96T7O*UX/Nip/P

 ^fd]<.(VcP/ˆj81JO]'TWA s|HFQBgnqqC"*OnkpW|g^qqLUP7@2y<W9#*J,?V7d_Yd_UV;

$rIS"eiZyi;JJOoGr:J$cU)_^C$[fˋXp ;Wx}Ug%?2^

8qzrRSJ7sq@ol.S*$@$@PH

SN9E;Z8 yn6I@p<gwH"{&_X#W3x=p (B8($-;g|e$dB Hfln5 %$$${a>o=BB /-/IZm.~*aCc>|110*8rtu__

u{)|*)fV,dg^&;UW%z9umEzD"`L<\FUpuzvcliX"*e(Tb\;zv_wuUF>L:kvstrqg79*;FzahvGSIir5h+P6gH;$[YG~\7W

^JCCoQ$r{pWybdjQjeEK4m@psH1TI,vmzA)[Qp6 A ~q1xV% J*Iztyt+.0i

?Z`c)A^iiiDooowxGJAPp@9#

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u#i03;RfztyAGKNKSx"v}XBf[P/XruY=g?jWU7/3PR.1QK

| @xwk @L=@IDAT^fNHep06kL~ ;d*iIGp~vyZ?0+QFr+>83 XY8.SN2vX|K,*4`@!CX/$qE\z8MA@\z

WPpmG+rDb>c\<wku Vt+a5[1hG`y'|AW`RxhB>?xq{=Vw[^1X4HUcnCx5B'haDNA19guo

<XN:va<.boUcg6h{eaLis\,!y{d;KrmLyKyIh}\~~_,n,g|N!LI'eRikv5LPB21;?'*HnmVwj~

i[]VU+/U}? g/6MH

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  P (L/^,pzOquUVYdppk%

B PH9nsAnAi$=4+0h>1D$SFhP_pOuST)

!9{]y|,o#l[x!:A0J&l7ZG;Va<+r"5z;w+P)AQuo&GRQa`i6d%*x:1ty\xU$CT.M;w#fy n +'2tm3Jifx>N_s$yt]

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+r"]|"&%{i~C[~(:\SAn}zsAtQp"lNVY*pBCKfTc*Qp//M1#?z]qXOT'gHA9|)<R@

?NM?KJ{6HJFK"`TQBV.XU_Yc5(n;9=3xS?Hw<PR v`S $'6_vyGEVZMWF~yV~ f[I1[!cO~&D.'?xOS5+@mZ

I[y2 rsm iC# #f/uA]IuO#

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$zq1VIeG'q!|BNIaNOww%V(H]%`z(S&Z/M@d@H!+SxzzxxuBmyPUGE@r`Tp|cv=$o %CZ`n7>b|@$_t}zxS

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:3wE> eX503?/gQ]}\nWX2E39@?+<y6}>$Eo[za!

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^xyv~_*;\rCd7j1x+K;]%sC[GUB1 +& p /pG$@$e]Z-/

euc9&T~@8DB:p1uIL1wmbc2}-8oVyp]v%UPAN=T9affw?2:/o%D%?G6;~"27x/ C{ 6G>\yQqh

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 5~uE 8CYQn,qn3g]tfb}cQP;^,_=c e81LcL+g;;?j1<m<8

!P49Ss9JRjGh DH0Yq8p]b! m:7 M/_j9\?L-W!\pNgOIOO},36[6.%&nqO"Q{ {#_FFr.xLMTy=s5v{rq!Kq@ugx

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z ygAakyK7Lh;X:$Z83+]UTf0c.Ix8nvgQm\+2fvI+GD}(s~@cWe

$paUzy 78?~>XkWc0`&n'_Lp ,))ZkjbvUJZZ y,{\h/8qFRsU1LDb?q6)__)VqK$A

pGPL88Ge"9'^+6ch)w3~];X s+g[YcvH&mjw:${X#(0#THK^ gs\gF|7*NvM$@$;\!;~<H

r.ZUpUT;vt9Zb!19PGA3^~C>14>*3fp.Ua :z)>jNf

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+r2@Bf.wSP~*QpGpp\Y$Fp3o^a+uU,>#+yv4V\1|\`P} 0`8.dYW$K2sf"H (d{/EuS^w

P"7k+e$j(%SRG;]]#++?;6h`8eR$-4E*mT0a$ oHp"a/a7n~#1Nw8,Z(w]>F[$lI|onJS4~GN

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1CV*US^jT^]j%mq$$@$@$@$@$@$@$@$PP(d%[n*.Nk&k-
ZHuXH$@$@$@$@$@$@$@$@$UXH{[NrI9CjQq$@$@$@$@$@$@$@$@$P8 P(&c+W#Fq/l>oF-[f0
7$@$fGb1/b&N%J<q|)M~$6?u;
EU9B#%Kgu=Xu?o@?Sg}(@^_mUV$3eKs0e9RJ(7={t222'K2e$!!A6m*zG>kN3:1j3fSNxE[7]Ke|Pvm]'Nd"
mQFgOc2iy')))V&/}z+VVO>4lN>d0`3>
@W7xCpp<\=4kQ:ukg|RuSSSs~Z K/MGRF
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9j*)VX:>-(*
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mqF]l?2i$;w.>SO=%wqGP9

&w)9%4AmKN?t3gN>.7xcSN(vD/\~mnk.q/,7tq6{UNu:F;{vdYAQ/F:CcPKe{6HQsL:}tq+_ `8
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6>8
usx-,#   "P HHL|{W_}t~%`5k3sL1;<\<xNUrK1 YCEoZ]we9J!tV8r'<"O>}
g:tampVC tx/#
fIY3fnu
4vXkE`;}Pxqn]+NW`f1->H .92+}n}kA
!L=Z h([t5>a7 ` @_,X UFXmip
3!8@BuYA-N8N3.'4?l$@$@$@$@$@$@$@$T8 KH
8
s6;dbG7Bg'00!a<m[[N^8868:1N}[wqV[pb'-08C6j9bGiYjF8 8Nb'7BAXaf7b%M4^@~^JmBI#B T "*bA(bu(
{P7/r}//=m{9g4h,J[PB{<n"YfZ08 Y)wj7%UpP*0$ha0${uFPJZG}$|=am\0e0F*1w^8p
%=$&&FG(~<3xL]XANE@9h!RJ^-r
    g!{IC
jktxeQtKra7c.qGeUAcmmr 1X;~:.E.X2e p!4nkVK!o
HuNYxf@fvfACFNEQ<D0b6!P{+p}S@F`P Vc)%<OR&Yd@y3p<44T0!0X"!f@03`A#.'3.0V(K_|0IHHHHHH,h*
GVeRm$)1Po}FXwd[qR=A 4'E9p=9R/A>80!,#r
xBp3us43 `(M('E7@JK/+l[(m! `dr #f[A0Xe:916eM'sK_A#1g`Xl#uGwax'rJxkWNom8}$@$@$@$@$@$@$p>pi+5
T[.?x# r
O~" @!3JN2U%r {AeS3d
[lq
j%*$/un^[|r-x:)0#g@B,z3zjor091;
y|0D0(C=$2x%p`<`T1M; rB6g11# bXz={CrO$@$@$@$@$@$@;g
H"`t7!;xAC~u7m'.\B!.#Hjnfqia-dHBPRJX(! 2&poW^@x#xcfr@o&\(_[n':Q5lA0*_fS0nV#NCY_+WsNK]Haa9
8 p~ 1BH
fxC:F8(6b_|LizmqS~GInW9 LvRCJ^xAL p':b P~#|`o~>%3fn-ku_aqeJfcpA8?$uM[NsZZPFNe!f&X
83
GcX&{`($@$@$@$@$@$@$@
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@;J?f#W7aW"QF^BP9@R^sa &*`yg$0@[o0C-?)k_
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HQ)$@$@$@$@$@$@$@'Ag3IF24a6N
YSP1e?K(IM"o)0YFw
Iux^'XaM4I0b&*6e^2fGz6Ei=5=aLD^F0[$ aj^!F|LX6I|a1!*<yqtE9g,$@$@$@$@$@$@$@A F,A$pu/
N(Z>}b)[Kie]pB8::ZL|??6l mu'1 ,hB4i>xky
uky/Em{O>qk}unAofb8BM`2o{]GSC~m{R| y!!0 48sM6PI81dP9,@{Nkxq
\%8w @A
E5P_veyk3gbC}-P>kD/oO?
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x?\(-3&B8YF wsX9-(ol\kfU[ZEt'8"dh0 L F={o)_
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,kN{=]$6^^uNh1bf$HHHHHHH /2 sUQe%2M!9RaAP"&;>tPeqC
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}q0:!)`5>mm&Sq!00b]HfPHHHHHHH|P5.RIrf2N-z{Ix
w;=3Ycd$rY6B*IhQZQj/@<x(0sN9pG%Q>:wFFitE~o[6<x7#:!%!{xpi}a(@H+Dl`6I]"R     `+rHH$jQ
w|Axke!<O[*@%|4lP)IA|
#0SY4m)fX?   TH4T" s?aHHHHHHHQcPJp8)BPY]"$ {@ $aUjDdf`ORHT
JXDI$@$@$@$@$@$@$@$@$P1 A @)jL %)I9zU0TDb$
{\`!aun*^}J}$<Th($@$@$@$@$@$@$@$@$@KTB #gJ*Oc@Pd!l@@v,>uJA%-
J2dgHLW3'0Ac@@:vd.)X;+SN0   0J `ZHHHHHHHHHHHL8IW(@IA^   (Gh(G7]!
"@@Ie$@$@$@$@$@$@$@$@$@$@$P PnB$@$@$@$@$@$@$@$@$@$@%E *}V$+}`R~quYZ:
{"A>m`$@$@$@$@$@$@$@$@$P^ ArFefvyq~+X+HW6ddr6;VN:@eW6(e-=eHHHHHHHHH@!HJNlI *I@

`oPC}zMOV%P "M6I     (J -Ofcx<rC FW`poB ~k`G`53 ,V#HpHHH4   7@q({OCYrPRN P\t
3GpNb9!0Ac@v2g8a*}!&g+*^SAY0   @Y`IHHHHHHHHHH
 PJ   %>&   R"@@)f3$@$@$@$@$@$@Ft*@IDAT$@$@$@$@$Ph(KlHHHHHHHHHHHHJ
     @YA,m   (%4h6C$@$@$@$@$@$@$@$@$@$@$@eIIHHHHHHHHHHH PJ   %>&
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     @YA,m   (%4h6C$@$@$@$@$@$@$@$@$@$@$@eI ,g$@$@$P K]2%"4PMHHHHHHH
Dba (j%z"&3S{+eGOC7~=e`#%~*[
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w7Q   @&@@? F!?SJ;+M}'ZS$wL.Y7]'OI ;CF.?fhUk{+%&Kzk(A2%HF- XUke_ri##I4S~]/Z<%"<gy,0}\Yr8yR
ThYoM*   @YA'(29t[N{;?P)J[65-[)}2<x_~Zk_$dKRbS
NW*Kt'Ks0w3xI:%++;_`gITYnfM)zs
:"}9y2{whLf,ZV O@o7x%5A!   D
Vk!@*Udn
PZ;vL6o,|[>#=[r+VwY]g_}|(ZtlJc/P[-ChR?XF\XPb0>{+l
pIt_s !NVTZj?s.3= O#^qNWS~T#
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{ymJN6MCaoC!Ct;k/gb6*2'B)6lR)+jdtV({Az(c\-fz>j=TuBNU0Eamq\?[fI^iK   {b)
(vkvyo!}^8qhROC2n8aJ?Oy,]&vVP2@_SdTT<jvl.NVWE.0W<Ki8H$}$k"^K*+CUVnKOgU[2=hV/Dz 7TkReOo-
U~ |ie^^~;%SJ'RN"#&uV~^"|J2-3NPMw:*'%bHy$t)okG+YsUrkdr Mur|"[d2;/:^/M;du{!9|$A*U
hy};+dX,P?:H7z-jzB?W(s/+WukWV?F*hs@KqZUuN.^ia{OY%9?fS_y569f#@?v

v(u.YllO$z2Sx;VLN>P85K/51>FOH/}z&Xc,Hm=<*tRSrMg!>>rAVr'JyYYd1IW
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  (^4/OF$P \RR.]>+ygedYzo6^BxRhuRJ$~F'EP-*HzC2"SiiI2WQdRJJUINa1
{8^g*Hv\"O=6)>sT2Z1|j\XjS'db2*Gjl)soTy(Yk4e >
]m#*U*>Z(N<~BQ.:7I?~B@Ocs 6vg[.}yN~x#6/8fNt|>1FS
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96\[2QrrlSV,wHPpeA}@B?^,_Q9K)+]VA@pNxR^~c}q(w?Ir+_r/~"*'N&)U]p~Uca9Q}|<{29[ezcpBavYKz
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~xwppW-8Gclv)j,]AXOWwnfnx&~6W[u5&0aU\nmVw:24L!j%wVgcGLfOVD$]~}gW0cwiJArbYD|-IHHHH
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xw=ZOHHiBV;6n6ydui&iGNoKq2O\?~2KL<C.(SSjeI_;f]zss7"/>RddCQ[[cM9:(c{H%eTS!Z=_=.{fH}7sS=HuO{
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a:rZyV3<B3=pPe(mBySn`*$YRB7?N|:U?Z^~c=05*r~SS{7B77-pi+T+0Rzv@`:v#]&'<Q-Ey:4k
djNE<zJ0`F
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v+`A{o!k*OPDG|>z}S Ka$!'>fk~7KxXT.4lPQ:G(PBG0nj0e`~m=WN2P?S#   (Ay+X5 $8p+I7o
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@y<675gro{Y{[wkYs5s3AiGzD~U?-_hnc^W_]LN \zLfrGE-Oz?!G @ @X
KF7?r1L.#1e]?>w|?`%9w'0p

74Hfs'-P8mIPfM7mvK.Byf!@ @ @^r;iUzU3> k.tMoy<OiL.O{&X(__){~)g"#ke6 }or_tB~e,5]Pgu[G @
@_oCcy^~(z=yrI'Mj/-~'_>I?2vmWnr/ &yew/x`>tdZcR"Q% ?VW~7~:IStQG8d^2c0Ae~xM @ @O`Y/W_o:SVaV-
[6_Nn=+{Q2dd7<h+_Jr{?m^?CIQ[}~r'-)z8#0k_r7Z`C)c

JupN1K+mHzu @ @OCdgQL<d$aev\o}r 'PHO6s)}C|]rw'L8AIQ%// ZdaF Jk=uYI$0 @
@R`W(9|fmJF/T\`8){NPmq2B{.wK=iu @ @X'V @ @ @AGE @ @ @`,k @ @ @HD6 @ @ @_@@`_Cg@ @
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$ @ @X: @ @ 0R@@`$

@ @ @X @ @ @#l@ @ @ @ @Id @ @ 5t @ @ @`H" @ @ @/ 3 @ @ @#Vb|oFla5wN @ @ @VwXA @ @
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@ @X @ @ @lA @ @N @ @md @ @ %t @ @ @`h#[ @ @ @E/ / @ @ @F @ @,zE @ @- 0 @ @ @`n+,]w}
@ @X` \K:n @ @ @.V9 ;R_eu>u @ @ @5M`@WC @ @ @`V9 P* @ @@g;5-"@ @ @@H @ @N @ @T* @
@,a%|q @ @U# @ @XK:5 @ @ PG @ @ uj @ @ @

T @ @ @`, @ @ @@ @ @ @X @ @ @* P%< @ @ @%, /S#@ @ @U@@Jx$@ @ @KX@@` _\F @ @@H
@ @N @ @T* @ @,a%|q @ @U# @ @XK:5 @ @ PG @ @ uj @ @ @

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T @ @ @`, @ @ @@ @ @ @X @ @ @* P%< @ @ @%, /S#@ @ @U@@Jx$@ @ @KX@@` _\F @ @@H
@ @N @ @T* @ @,a%|q @ @U# @ @XK:5-?,[lq< @ @0<%@ @ @KU`R=U=v\{Zr!e]vv+ XY`*?V^Kfr. @
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%xzl? &$LJ:_g}o)Cy#YV5T;OgDK|[s;"A1Z>7tU+xT @
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3IPM.NoteLicense URLs and Parent component details for Windows 2019 LTSC

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(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-

MMALAYANMarimuthu Malayandi (mmalayan)@B+//o=ExchangeLabs/ou=Exchange

 Administrative Group

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%-6__substg1.0_0042001F*9.__substg1.0_00430102**,:93feee6a76ad1ba6-amakothaAman Kothari

(amakotha)@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

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MMALAYANMarimuthu Malayandi (mmalayan)EX:/O=EXCHANGELABS/OU=EXCHANGE

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007D001F*68%4$T)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-MMALAYAN<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.pReceived: from CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17)

by DM4PR11MB5407.namprd11.prod.outlook.com with HTTPS; Tue, 20 Aug 2024

12:38:29 +0000

Authentication-Results: dkim=none (message not signed)

header.d=none;dmarc=none action=none header.from=cisco.com;

Received: from SA2PR11MB4793.namprd11.prod.outlook.com (2603:10b6:806:fa::8)

by CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17) with

Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.7875.19; Tue, 20 Aug

2024 12:38:28
 +0000

Received: from SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef]) by SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef%4]) with mapi id 15.20.7875.019; Tue, 20 Aug 2024

12:38:28 +0000

Content-Type: application/ms-tnef; name="winmail.dat"

Content-Transfer-Encoding: binary

From: "Aman Kothari (amakotha)" <amakotha@cisco.com>

To: "Marimuthu Malayandi (mmalayan)" <mmalayan@cisco.com>

CC: "Salil G K (sagk)" <sagk@cisco.com>

Subject: License URLs and Parent component details for Windows 2019 LTSC image

Thread-Topic: License URLs and Parent component details for Windows 2019 LTSC

image

Thread-Index: AQHa8v020JWnR34fHE2Oj3tu5q9IEw==

Date: Tue, 20 Aug 2024 12:38:27 +0000

Message-ID:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

Accept-Language: en-US

Content-Language: en-IN

X-MS-Has-Attach: yes

X-MS-Exchange-Organization-SCL: 1

X-MS-TNEF-Correlator:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

MIME-Version:
 1.0

X-MS-Exchange-Organization-MessageDirectionality: Originating

X-MS-Exchange-Organization-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-Organization-AuthAs: Internal

X-MS-Exchange-Organization-AuthMechanism: 04

X-MS-Exchange-Organization-Network-Message-Id:

ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-PublicTrafficType: Email

X-MS-TrafficTypeDiagnostic:

SA2PR11MB4793:EE_|CY8PR11MB7747:EE_|DM4PR11MB5407:EE_

Return-Path: amakotha@cisco.com

X-MS-Exchange-Organization-ExpirationStartTime: 20 Aug 2024 12:38:28.5883

(UTC)

X-MS-Exchange-Organization-ExpirationStartTimeReason: OriginalSubmit

X-MS-Exchange-Organization-ExpirationInterval: 1:00:00:00.0000000

X-MS-Exchange-Organization-ExpirationIntervalReason: OriginalSubmit

X-MS-Office365-Filtering-Correlation-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-AtpMessageProperties: SL

X-M365-Tenant-Cisco-ID: d8eb5f98-55ca-42f7-92f6-452cfa7add59

X-Microsoft-Antispam:
 BCL:0;ARA:13230040|366016|41050700001;

X-Forefront-Antispam-Report:

CIP:255.255.255.255;CTRY:;LANG:en;SCL:1;SRV:;IPV:NLI;SFV:NSPM;H:SA2PR11MB4793.namprd11.prod.o
utlook.com;PTR:;CAT:NONE;SFS:(13230040)(366016)(41050700001);DIR:INT;

X-MS-Exchange-CrossTenant-OriginalArrivalTime: 20 Aug 2024 12:38:27.9860

(UTC)

X-MS-Exchange-CrossTenant-FromEntityHeader: Hosted

X-MS-Exchange-CrossTenant-Id: 5ae1af62-9505-4097-a69a-c1553ef7840e

X-MS-Exchange-CrossTenant-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-Network-Message-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-CrossTenant-MailboxType: HOSTED

X-MS-Exchange-CrossTenant-UserPrincipalName:
3w+lEr5Syz6Ul7XhnjV+ziQoyeAButBZPWvDHcUEHStczQepJ216vYEgy1ezPTqd4EYOSjEcvIT2xgXlBIYKgA
==

X-MS-Exchange-Transport-CrossTenantHeadersStamped: CY8PR11MB7747

X-MS-Exchange-Transport-EndToEndLatency: 00:00:02.0031318

X-MS-Exchange-Processed-By-BccFoldering:
 15.20.7875.019

X-Microsoft-Antispam-Mailbox-Delivery:

ucf:0;jmr:0;auth:0;dest:I;ENG:(910001)(944506478)(944626604)(920097)(425001)(930097)(140003);

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Marimuthu Malayandi (mmalayan)InboxLicense URLs and Parent component details for Windows 2019 LTSC
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 Marimuthu,

As per our discussion over Webex, please find herewith links to Licenses, Third Party notices and Image details for Windows 2019 LTSC image:

https://hub.docker.com/r/microsoft/windows-servercore

https://3rdpartysource.microsoft.com/

https://www.microsoft.com/en-us/legal/third-party-notices

https://github.com/microsoft/containerregistry/tree/main/legal

Have also attached image depicting parent component.

This is in reference to -

SBOM: https://corona.cisco.com/releases/331413/images/1186257

TPSC scan: https://tpscompliance.cisco.com/compliance/product-releases/product/1343902673/release/2143298352/commercial-bom

Please let know if any other details are required.

Thanks,

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R11MB4793.namprd11.prod.outlook.com>bLTqGo09

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(mmalayan)__substg1.0_30140102*__substg1.0_36770102*IYJ__substg1.0_3FFA001F*<__substg1.0_3FFB0102*

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Kothari (amakotha)Aman Kothari

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MMALAYANAman

 Kothari (amakotha)Marimuthu Malayandi

(mmalayan)amakotha@cisco.comamakotha@cisco.commmalayan@cisco.com__substg1.0_4038001F*.__substg1.0

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"@outputVersion": "1.0",

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https://corona.cisco.com/releases/331413/images/1186257 TPSC scan",

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$~4
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P=@$@$@$@$@$@$@$@$@$@$@$@E"py$@$@$@$@$@$@$@$@$@$@$@A   E)
$@$@$@$@$@$@$@$@$@$@$PP(H$@$@$@$@$@$@$@$@$@$@$@x   @ @A\d"
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$@$@$@$@$@$@$@$@$@$@$PP(H$@$@$@$@$@$@$@$@$@$@$@x   @ @A\d"
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$@$@$@$@$@$@$@$@$@$@$PP(H$@$@$@$@$@$@$@$@$@$@$@x   @
 @A\d"   P=@$@$@$@$@$@$@$@$@$@$@$@E"py$@$@$@$@$@$@$@$@$@$@$@A   E)
$@$@$@$@$@$@$@$@$@$@$PP(H$@$@$@$@$@$@$@$@$@$@$@x   @ @A\d"
P=@$@$@$@$@$@$@$@$@$@$@$@E"py$@$@$@$@$@$@$@$@$@$@$@A   E)
$@$@$@$@$@$@$@$@$@$@$PP(H$@$@$@$@$@$@$@$@$@$@$@x   @ @A\d"
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$Gp=;G]^
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QH

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hFyL+10?c

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Y6\z(%`RSSN`{!dOE'{e}FX~Z$)

0obJ2$"^x i#On:g4b9 3e`!eG# (|(k @8\Y

vZmB?{Gpm(Jt@hr32j Q+T O+A<^U6a=8(p[2>

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,

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:4S7;r q

)&L4p6J^>k{14

 !)f @HB p&93N;MwjGH/D@s1

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s} Xn

!L_|>za1#tmvi}ei,?OO4*2sHf[<{&~AVJJZj~>Emer/.P\,eR^N.--UhM\q@=eHH)%7]\Nl> W]v-

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*

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u{)|*)fV,dg^&;UW%z9umEzD"`L<\FUpuzvcliX"*e(Tb\;zv_wuUF>L:kvstrqg79*;FzahvGSIir5h+P6gH;$[YG~\7W

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G-`_!|}gTnZB2l!Q+xomN<Z|'C^*_'}*/]PafYNisvY+'uW!6|Yva]S

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Rj a" T lEr~D| ^wy|G!D8rkHZY

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YwJ5sO;3UN|J

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%`8*\

W,mHJ

sJH K[CR$5

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,An?+G?c
URx<o;wn9XPNi]jwK:D 4s:U:w5-7]wXH1yRhcKk{(WJ.9j& y:bd %Jh6fC~goHq'f#|n
v8v +b5jlO>z /
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 cimc=T8PZ{U+
Y/
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#8VBX@[B`O?<
33u'|_yQ#86"_ruWa)cxH|?Z<>'C8=sdpd)r'&;&'OTh2s}
chqyIHHH6
EIHrG*C#?>;bB_~p2fK#/j0JFrN`kc^06lu">&M6c[nP].H,|lUV!8a0:99nu]g9u,U7$7[N+B
+r2@Bf.wSP~*QpGpp\Y$Fp3o^a+uU,>#+yv4V\1|\`P} 0`8.dYW$K2sf"H (d{/EuS^w
P"7k+e$j(%SRG;]]#++?;6h`8eR$-4E*mT0a$ oHp"a/a7n~#1Nw8,Z(w]>F[$lI|onJS4~GN
cxa%HN;m&g!5B:
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1CV*US^jT^]j%mq$$@$@$@$@$@$@$@$PP(d%[n*.Nk&k-
ZHuXH$@$@$@$@$@$@$@$@UXH{[NrI9CjQq$@$@$@$@$@$@$@$P8 P(&c+W#Fq/l>oF-[f0
7$@$fGb1/b&N%J<q|)M~$6?u;
EU9B#%Kgu=Xu?o@?Sg}(@^_mUV$3eKs0e9RJ(7={t222'K2e$!!A6m*zG>kN3:1j3fSNxE[7]Ke|Pvm]'Nd"
mQFgOc2iy')))V&/}z+VVO>4lN>d0`3>
@W7xCpp<\=4kQ:ukg|RuSSSs~Z K/MGRF
>6mZa_?IKKw3QFe   @1l*=md{/Eu@ip>LId}Ye,\lA[C >$Iz\Q${NA(o;pNn
9j*)VX:>-(*
0bC
mqF]l?2i$;w.>SO=%wqGP9

&w)9%4AmKN?t3gN>.7xcSN(vD/\~mnk.q/,7tq6{UNu:F;{vdYAQ/F:CcPKe{6HQsL:}tq+_ `8
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{P7/r}//=m{9g4h,J[PB{<n"YfZ08 Y)wj7%UpP*0$ha0${uFPJZG}$|=am\0e0F*1w^8p

%=$&&FG(~<3xL]XANE@9h!RJ^-r

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jktxeQtKra7c.qGeUAcmmr 1X;~:.E.X2e p!4nkVK!o

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GVeRm$)1Po}FXwd[qR=A 4'E9p=9R/A>80!,#r

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H"`t7!;xAC~u7m'.\B!.#Hjnfqia-dHBPRJX(! 2&poW^@x#xcfr@o&\(_[n':Q5lA0*_fS0nV#NCY_+WsNK]Haa9

8 p~ 1BH

fxC:F8(6b_|LizmqS~GInW9 LvRCJ^xAL p':b P~#|`o~>%3fn-ku_aqeJfcpA8?$uM[NsZZPFNe!f&X

83

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N(Z>}b)[Kie]pB8::ZL|??6l mu'1 ,hB4i>xky

uky/Em{O>qk}unAofb8BM`2o{]GSC~m{R| y!!0 48sM6PI81dP9,@{Nkxq

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dnrHHHHHHHB JLr~EV`/W_s='&y.$/7,[%,<r<3^5aDJ*>=+JW_}Utn7U0+PC-S7!T0|]?yRS%-~0G(P Wp>QXZJ
}q0:!)`5>mm&Sq!00b]HfPHHHHHHH|P5.RIrf2N-z{Ix

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J2dgHLW3'0Ac@@:vd.)X;+SN0   0J `ZHHHHHHHHHHHHL8IW(@IA^   (Gh(G7]!
"@@Ie$@$@$@$@$@$@$@$@$@$@$@$P PnB$@$@$@$@$@$@$@$@$@$@%E *}V$+}`R~quYZ:
{"A>m`$@$@$@$@$@$@$@$P^ ArFefvyq~+X+HW6ddr6;VN:@eW6(e-=eHHHHHHHHH@!HJNlI *I@

`oPC}zMOV%P "M6I      (J -Ofcx<rC FW`poB ~k`G`53 ,V#HpHHH4   7@q({OCYrPRN P\t
3GpNb9!0Ac@v2g8a*}!&g+*^SAY0   @Y`IHHHHHHHHHH
 PJ   %>&   R"@@)f3$@$@$@$@$@$@$Ft*@IDAT$@$@$@$@$Ph(KlHHHHHHHHHHHJ
    @YA,m   (%4h6C$@$@$@$@$@$@$@$@$@$@$eIIHHHHHHHHHHH PJ   %>&
R"@@)f3$@$@$@$@$@$@$@$@$@$@$Ph(KlHHHHHHHHHHHJ
    @YA,m   (%4h6C$@$@$@$@$@$@$@$@$@$@eI ,g@$@$P K]2%"4PMHHHHHHH
Dba (j%z"&3S{+eGOC7~=e`#%~*[
tI:uJU N
-LR/
w7Q   @&@@? F!?SJ;+M}'ZS$wL.Y7]'OI ;CF.?fhUk{+%&Kzk(A2%HF- XUke_ri##I4S~]/Z<%"<gy,0}\Yr8yR
ThYoM*   @YA'(29t[N{;?P)J[65-[)}2<x_~Zk_$dKRbS
NW*Kt'Ks0w3xI:%++;_`gITYnfM)zs
:"}9y2{whLf,ZV O@o7x%5A!   D
Vk!@*Udn
PZ;vL6o,|[>#=[r+VwY]g_}|(ZtlJc/P[-ChR?XF\XPb0>{+l
pIt_s !NVTZj?s.3= O#^qNWS~T#
eq&   @ADr $,}qlN:-[1c;%:#w(=[6GD[x'pZq>qIxa7HAxWcdU%*R@wB$@$@$@$@$@$P&<c!I(<uCiii0P k_
{ymJN6MCaoC!Ct;k/gb6*2'B)6lR)+jdtV({Az(c\-fz>j=TuBNU0Eamq\?[fI^iK   {b)
(vkvyo!}^8qhROC2n8aJ?Oy,]&vVP2@_SdTT<jvl.NVWE.0W<Ki8H$}$k"^K*+CUVnKOgU[2=hV/Dz 7TkReOo-
U~ |ie^^~;%SJ'RN"#&uV~^"|J2-3NPMw:*'%bHy$t)okG+YsUrkdr Mur|"[d2;/:^/M;du{!9|$A*U
hy};+dX,P?:H7z-jzB?W(s/+WukWV?F*hs@KqZUuN.^ia{OY%9?fS_y569f#@?v
v(u.YllO$z2Sx;VLN>P85K/51>FOH/}z&Xc,Hm=<*tRSrMg!>>rAVr'JyYYd1IW
Vu{IF3~Ucx}z^MY>@>gc7>6Z-R}L}oP!/Hc[v{]&
  (^4/OF$P \RR.]>+ygedYzo6^BxRhuRJ$~F'EP-*HzC2"SiiI2WQdRJJUINa1
{8^g*Hv\"O=6)>sT2Z1|j\XjS'db2*Gjl)soTy(Yk4e >
]m#*U*>Z(N<~BQ.:7I?~B@Ocs 6vg[.}yN~x#6/8fNt|>1FS
Jip;x\|]$a~Q,2U%vra7G!2<~qj^vv{([}Q_ks\&uxhlC>W>XKF
96\[2QrrlSV,wHPpeA}@B?^,_Q9K)+]VA@pNxR^~c}q(w?Ir+_r/~"*'N&)U]p~Uca9Q}|<{29[ezcpBavYKz
k6I+7HHHHHt8UJaB$@Γ`;&:

u7EIFd2ydGHa89,$@v
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KPRne[q.c@!rMJrX)Q&rkGk(/mN6\]m"K6iEk/}y\v5B=^6Q>2.rR P:U LQv*2#uyX<)cv)n2`Dq5[d5aTdu4k8PM|zt
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_PQ^v
9<>@aV<0M;mh\&|Iy@A^2/YN-J{\9^@_dVYU6o%-5:eO)!Q
~xwppW-8Gclv)j,]AXOWwnfnx&~6W[u5&0aU\nmVw:24L!j%wVgcGLfOVD$]~}gW0cwiJArbYD|-IHHHH
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xw=ZOHHiBV;6n6ydui&iGNoKq2O\?~2KL<C.(SSjeI_;f]zss7"/>RddCQ[[cM9:(c{H%eTS!Z=_=.{fH}7sS=HuO{
U]#of.:#Os_|BvxKIr AxKPWF
>)`$.*PQ2:DWHzNJ0{R_FiD.urRFvHduS5|E/
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:f8wfe]2zfP6??0b
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O3@W\N>*t(&(*=wT<`s]C!w
a:rZyV3<B3=pPe(mBySn`*$YRB7?N|:U?Z^~c=05*r~SS{7B77-pi+T+0Rzv@`:v#]&'<Q-Ey:4k
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>*J$@$@$@$@$P\%' p=zSjc_,$F0K*;v:tPTXv+I.J $&0g(oJz@Ss2T~'ItlJ2Z<2`-{EJ+PWUBZ1nc]#fkXblm1PGU
YWs-ucBUayU0x}b!F,^m\uo^{U1Z2U!:On]]Q GdHE}PZ#Od`uG((!69u<ho7Q8(wi`/_U(m'{Wu-Ve)V)9rb!
v+`A{o!k*OPDG|>z}S Ka$!'>fk~7KxXT.4lPQ:G(PBG0nj0e`~m=WN2P?S#   (Ay+X5 $8p+I7o
x<h dΓ`<xl(]AjdWra oI&<Oe73ty#Oh61oR3-
GHWx0?.E9tk6{xn[|1tAf2U>U,oNS.][4kv;=L^FGhU[bc9N5m&$x*b0;x{Ktg#k==$8G)3i1u(e)B9Iznxi':.$FtlcV,r~
y? ^v 9mt(b&/ga5tP{'i{w)O(<!!vsNUKe,E'<74<8d&IFHpBfo] Kd?'#NDj*rq=;:PKzOf
m<ru9)GxB$@$@$@$@$P^nlH@(^Z
&~-[T|nvYtiA&W\!y9=*/ =BtR'6cUum5TXc\%fwy(_7WJGaWVeLye @3.v#_[Y=r12zU-F7mUV__bctRD*
G]1Mx#ERnT,YV.tJ~XKjj+Qy'ty(dTnr;zY'N&f7}wc \0
[])(f;:f2UU7r?XR1_VCn'Td*xOxB1~%0OGcDRd< 8$l6-O8gx~I]NaHLC!
(76B$@%O}gIT$y_h{1y9z\QrX[#I&<Py*maeRCbTd=^1|ILIi0wzA2xyC%uYT1,I]o=S>G]LrC_swX6]^Sp]'O${v
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 P527GsdP>>K_wg?T.f\8!"V5/oUr>oF%a6#-0QY!   !@@pf+$@jE(>>^>} d>9q
D&07]
iQy$X>co
S}x2xX\f<}[5yri2{Y>MdyaduB Wb8BU2y
6}(/KhfSRb,?Nz/'v)#r!f ?bF&ic8tl2uz}A$OX9&wIjg(0@6nYP"c@joFVLJ.%wqr*jA#[d5Vm{+7/&O4SI{
~O'$5(SS,Vrs~Y3   #@@fK$@@tt6$'{z(!lk7C_"eA\;2d2!_3CX-k>/qA`s{g*sscZ} +#o&/g!L(3JMW=19y5
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f
dYHN s;De-DFFHrrXg/Si_]x.U((#fB 1hVc&?K3o6SSF
BV Px0eh/e{wy5B$@$@$@$@$Pz)=lH [u/Zv%4win dYHQUrKRdnNt_.=n-SE~<16Q{u\M;3Mf.s
*HNSL=7u8%iT3X%wum{]2d^zzze8 Vt &7PDS+[1xPCbscc;.&`7nPGe1+".
:mP!b[zDLUgerJ$ddV_?_s.Q5u@eG_s@>Z&<-<qjo
Yvni>   '@@#f$@O>B3 t[r.o^{MRRRT\r58/FXZi5cV'%gWs\><E~]*B^#W+G;flwPA#"W&Ip,2 r\{+)/
~A9pLyqj>\/.S/y3q5*_A=BuZy-
BlR!OdEnfNm<\:5kBcfcf5O+ji?4J9<{~Bv'u&R]o?wS,[[UcV*oW/Eq0}<RFec/d$U(-
$k0D%S9JA;k6ly%u]\KWvy2Y`*w<O9+;;{&    (a40`VO$Pzue)rUWo;sg5j!l$-
nSC+="fJ(Q(@}.hXIR39I>Nn}#c0_H<SOKr?[pCQQN^<{{GkI.%_/f*T}Dx~(2_ ts]c2kKjvP@BUc1{?L&\#GS{g
'5 Mid8M~Zu/s
P|)W,g{ch/dJ
7s`.w^I4]CT I]{yK)>_z3e0',[AA,/UkISgt\eTnXK _#v@y
c|)U[]]"]7ca]^Ei]f9cRop_g1`Kho{Ms'%)#{#$[#!O}Nq}Y8q[5o16one<6PyC>{mR 0~!V)$@$@$@$@$@H
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t%X@8iV_oyQ1T1?j
*_MY*W3}m5F.epko?V<(|_MG <g^?a_('xD%gSeN_|/)j @ U%iSXVMd:_{]+mxxQmCem R%q1n@
#oW}FRJXBi5ko}Y)?4M3|Ux0@0Ka}*\qPXH.W&ZN)NQ(cVht3`A]> kD!*AqLz'(1(u1*F=-
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<~\n{%SYtYy(]v$dHilU@ X[*U^~P-$;9mf$"$z{ uVUfg3K]ZF-ovlu8S+{dD3$\yU

J#_PO+C<DK d,jE]U"SHAgK5`

7_uq8b^2_})hRBp@_5Pr8yR++GBfs.PBrT]gjvDB!4U37?c#820j`?z2${T5DWSIV5eH8cU!asaD1xe2-

X.=fxFNT1]6!   (***AO$P9rDNkJ}cvI]

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aPWn^n@_#.PU@qY/Sa3^

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#.)\GI~VSmOiHIZ)O7Jn;w5)3O,C$@$@$@$@$P04K -[={;RdtX>l,0vH\87GCK`HC   hK Tp,W3WO(TV\' 8O:-
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n\!   K{oye$@$@$@$@$@$@$@$@$@$@$&@WHHHHHHHHHHHA[^   F

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]5@%0m4Yf?#|[J^dCBB$..Nbbb<0^*'Ov|_0.Qu?2]b][gyg_?_+-FJi3g\~RzuLzIZ_|Q0Rtx_? ^

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w))R`P>cF7|\gI?j#AoS3zjyG?J.<:>iq22'Q*T%\"5*3SHY!   T4T[!_\B{x\`2xz\ppkyfZCe@AAA2a:u}U.w+2

vcq`riC~JIqxW0kXk|w=zykZ7ow7f !d1m>H~m,4H/_gA`:+`P-5W0!_|EWL$@$@A_R,G$P

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1.49 internet-explorer 11.00.17763.5830

1.49.1 Available under license :

License Path :

Third Party notices and Image details for Windows 2019 LTSC image:

https://hub.docker.com/r/microsoft/windows-servercore

https://3rdpartysource.microsoft.com/

https://www.microsoft.com/en-us/legal/third-party-notices

https://github.com/microsoft/containerregistry/tree/main/legal

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3IPM.NoteLicense URLs and Parent component details for Windows 2019 LTSC

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MMALAYAN<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.pReceived:

from CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17)

by DM4PR11MB5407.namprd11.prod.outlook.com with HTTPS; Tue, 20 Aug 2024

12:38:29 +0000

Authentication-Results: dkim=none (message not signed)

header.d=none;dmarc=none action=none header.from=cisco.com;

Received: from SA2PR11MB4793.namprd11.prod.outlook.com (2603:10b6:806:fa::8)

by CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17) with

Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.7875.19; Tue, 20 Aug

2024 12:38:28
 +0000

Received: from SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef]) by SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef%4]) with mapi id 15.20.7875.019; Tue, 20 Aug 2024

12:38:28 +0000

Content-Type: application/ms-tnef; name="winmail.dat"

Content-Transfer-Encoding: binary

From: "Aman Kothari (amakotha)" <amakotha@cisco.com>

To: "Marimuthu Malayandi (mmalayan)" <mmalayan@cisco.com>

CC: "Salil G K (sagk)" <sagk@cisco.com>

Subject: License URLs and Parent component details for Windows 2019 LTSC image

Thread-Topic: License URLs and Parent component details for Windows 2019 LTSC

image

Thread-Index: AQHa8v020JWnR34fHE2Oj3tu5q9IEw==

Date: Tue, 20 Aug 2024 12:38:27 +0000

Message-ID:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

Accept-Language: en-US

Content-Language: en-IN

X-MS-Has-Attach: yes

X-MS-Exchange-Organization-SCL: 1

X-MS-TNEF-Correlator:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

MIME-Version:
 1.0

X-MS-Exchange-Organization-MessageDirectionality: Originating

X-MS-Exchange-Organization-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-Organization-AuthAs: Internal

X-MS-Exchange-Organization-AuthMechanism: 04

X-MS-Exchange-Organization-Network-Message-Id:

ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-PublicTrafficType: Email

X-MS-TrafficTypeDiagnostic:

SA2PR11MB4793:EE_|CY8PR11MB7747:EE_|DM4PR11MB5407:EE_

Return-Path: amakotha@cisco.com

X-MS-Exchange-Organization-ExpirationStartTime: 20 Aug 2024 12:38:28.5883

(UTC)

X-MS-Exchange-Organization-ExpirationStartTimeReason: OriginalSubmit

X-MS-Exchange-Organization-ExpirationInterval: 1:00:00:00.0000000

X-MS-Exchange-Organization-ExpirationIntervalReason: OriginalSubmit

X-MS-Office365-Filtering-Correlation-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-AtpMessageProperties: SL

X-M365-Tenant-Cisco-ID: d8eb5f98-55ca-42f7-92f6-452cfa7add59

X-Microsoft-Antispam:
 BCL:0;ARA:13230040|366016|41050700001;

X-Forefront-Antispam-Report:

CIP:255.255.255.255;CTRY:;LANG:en;SCL:1;SRV:;IPV:NLI;SFV:NSPM;H:SA2PR11MB4793.namprd11.prod.outlook.com;PTR:;CAT:NONE;SFS:(13230040)(366016)(41050700001);DIR:INT;

X-MS-Exchange-CrossTenant-OriginalArrivalTime: 20 Aug 2024 12:38:27.9860

(UTC)

X-MS-Exchange-CrossTenant-FromEntityHeader: Hosted

X-MS-Exchange-CrossTenant-Id: 5ae1af62-9505-4097-a69a-c1553ef7840e

X-MS-Exchange-CrossTenant-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-Network-Message-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-CrossTenant-MailboxType: HOSTED

X-MS-Exchange-CrossTenant-UserPrincipalName:
3w+lEr5Syz6Ul7XhnjV+ziQoyeAButBZPWvDHcUEHStczQepJ216vYEgy1ezPTqd4EYOSjEcvIT2xgXlBIYKgA
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X-MS-Exchange-Transport-CrossTenantHeadersStamped: CY8PR11MB7747

X-MS-Exchange-Transport-EndToEndLatency: 00:00:02.0031318

X-MS-Exchange-Processed-By-BccFoldering:
 15.20.7875.019

X-Microsoft-Antispam-Mailbox-Delivery:

 ucf:0;jmr:0;auth:0;dest:I;ENG:(910001)(944506478)(944626604)(920097)(425001)(930097)(140003);

X-Microsoft-Antispam-Message-Info:

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.outlook.com>@B+//o=ExchangeLabs/ou=Exchange
 Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f1485893feee6a76ad1ba6-
amakothaAman Kothari (amakotha)EX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
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02*>@fEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-AMAKOTHALX
LX
Salil G K
(sagk)__substg1.0_0E02001F*__substg1.0_0E03001F*1Qg"__substg1.0_0E04001F*h>__substg1.0_0E05001F*B
Di
Marimuthu Malayandi (mmalayan)InboxLicense URLs and Parent component details for Windows 2019 LTSC
image)EUzgbOSIq:(Zi%:(Zi%__substg1.0_0E1D001F*j__substg1.0_0E4C0102*CGm__substg1.0_0E4D0102*n__
substg1.0_0E4E0102*FHo__substg1.0_0E580102*p__substg1.0_0E590102*EMq__substg1.0_0F030102*r__subst
g1.0_1000001F*JLs:(Zi%:(ZiAG~M{nHHi
 Marimuthu,

As per our discussion over Webex, please find herewith links to Licenses, Third Party notices and Image details for Windows 2019 LTSC image:

https://hub.docker.com/r/microsoft/windows-servercore

https://3rdpartysource.microsoft.com/

https://www.microsoft.com/en-us/legal/third-party-notices

https://github.com/microsoft/containerregistry/tree/main/legal

Have also attached image depicting parent component.

This is in reference to -

SBOM: https://corona.cisco.com/releases/331413/images/1186257

TPSC scan: https://tpscompliance.cisco.com/compliance/product-releases/product/1343902673/release/2143298352/commercial-bom

Please let know if any other details are required.

Thanks,

Aman

bLZFu*
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'ch
set0 PVUUQW2U3FYkcu ;B7
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/* F! Diti */
@-fne
0{95$ ly:"C0Pb!0h"`9
n$`pe-1:p023=06==a`}8{9:A0$`</=310pCV>7qSG5r7
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(

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w@!Pp" 'Mo'M??/?Oog*b'\5 -P/w`Opl/;!Vr-O_nO_o@?/?O_oI@'81RPIw0ry T_oT?

?//?O_!

,-#?O1OO&'5)*,0.//?@aS0@Ocx`ppZ`jj1PX!_1P./?OI?JOK_15689:/;?<O=_>o?@W?BC[`r^Qn"-OPQ/R?SOT_UoV\XYZ[\]nOoSSBOM:

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 Fr?GAaF F

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js

+QWY 13579;=GIKSU]'?"B@Q?*%)-ACE2[:B/Marimuthu Malayandi

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 Kothari (amakotha)Marimuthu Malayandi

(mmalayan)amakotha@cisco.comamakotha@cisco.commmalayan@cisco.com__substg1.0_4038001F*.__substg1.0_4039001F*[_<__substg1.0_5D01001F*$__substg1.0_5D02001F*^`$__substg1.0_5D07001F*$__substg1.0_5D08001F*A$__substg1.0_5D0A001F*$__substg1.0_5D0B001F*bd$mmalayan@cisco.comamakotha@cisco.commmalayan@cisco.combZ@U>sip:amakotha@cisco.comp;I%xOM%Op;I%xOM%OXxOt__substg1.0_5D160102*__substg1.0_5FE5001F*cg,__substg1.0_65E20102*__substg1.0_65E30102*fh__substg1.0_80080048*__substg1.0_800A001F*emX__substg1.0_800C001F*h__substg1.0_800D001F*jlY(!eyJJc1VybEJlaW5U2Nhbm5lZCI6IiIsIlVybFdyaXRlVGltZSI6IjgvMjAvMjAyNCAxMjozODoyOSBQTSIsIkFTRGlyZWN0aW9uYWxpdHkiOiIzIiwiUGhpc2hFZHUiOiIwIiwiTXNnU2NhblN1c3BpY2lvbkxldmVsIjoiMCJ9[

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(Build 7875.0), Stage=H4;UP=1__substg1.0_8016001F*
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x.Models.Heuristics.DoNotReplyFeaturizer+DoNotReplyTypes;SCAT=SameOrganization;RFV=1032232302:-
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NIMoi:4{yzsW`mR3}y+fd8_Y-I99/_@s3?Xu@mZJ)&e$b%F>`z

dWm\CIHBI$@G9M<L)YdP;_~O=&g;V 'T%gU(c u+,<3N}19>>>^!0LNVWm~fw1cO$Vh{@lsl:CHN8

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s} Xn

!L_|>za1#tmvi}ei,?OO4*2sHf[<{&~AVJJZj~>Emer/.P\,eR^N.--UhM\q@=eHH)%7]\Nl> W]v-

+WUkUon]K*QnAG!XYRVU! ekyeWZN$@$)

q$@1GPpf E*Vh9MNjUSH70U~[3u28W!7frh35(q38B!

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<Z,\;8{B

803B;!At\ $ERZ@H8Bm>6;N<DkP|ya %V-`Yge}Fh N>3M3QcB;x|60K@T"yj9(HgH`MC\>38/f#b%O^VxXw

~N[q{pGOk]G=^ Lb+nA@pC^_tEo,7mBxM$/(+c4Wwm <{HH

7D%S.x@mN;1Nns;72"jjxe{5CPZyc

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UI[+mmSx~}]$,8D+e}\r9&imH+Yn\1IN8O8lVVgrI$fn)33~Uk/HfdWG0[Sd1]\?y0g[kPe{dsz$Tuk'0~sg?n/mIH1}

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,~J?] }.9hyywfla+~ Y2[%+a=+|E, @_$@$s0+s7o uLBSqX>}EcvYIKutep*8ap}X[

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$rIS"eiZyi;JJOoGr:J$cU)_^C$[fˆXp ;Wx}Ug%?2^

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  P (L/^,pzOquUVYdppk%

B PH9nsAnAi$=4+0h>1D$SFhP_pOuST)

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*]j^91ElU9BLu3g |fQW>rwhZqn,kv|C8!TU F$@$?i @Agv~(<f:}S1{4{$s>|xP,wn[nq~O9

:3wE> eX503?/gQ]}\nWX2E39@?+<y6}>$Eo[za!

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^xyv~_*;\rCd7j1x+K;]%sC[GUB1 +& p /pG$@$e]Z-/

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z ygAakyK7Lh;X:$Z83+]UTf0c.Ix8nvgQm\+2fvI+GD](s~@cWe

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r.ZUpUT;vt9Zb!19PGA3^~C>14>*3fp.Ua :z)>jNf

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N(Z>}b)[Kie]pB8::ZL|??6l mu'1 ,hB4i>xky

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0/BZ'|E"?kw<R^Sz?]"b03a[tgEB3(2?Yb&g+pmkPD.]N= j*6G

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@ rj>[I?ALuJ|SLnAGCtN)|~:

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3yNZ .)#'vk

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XE/[9)tE\Ri4W=A2hFgd,(H%~KLOV#Eat-ER{b>XOzvFjoPR5>iGs6UWrnp]eReJ

fehK$D3oKQlC -)FIIRYGCEHiMOeT~)N)]^@Tiu[Cs7^7WUso;M]4{G2DjdF@

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G]VY%F_}guVU}UG6-O1tiyeijkpKhOgzR?H54O-WJX.*QR}(R`RGAu-

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[lE?^>:W"$Nr2/cJd]`%?%.B()#>R9IVV^y^^ cIg"qU7,(pKwK~\IrG'a qCEJIlPXkP\axl.:>^>>i=!}j7+'^qE8^wn-DWrniPgN}rAQ|M!2[L|[]v\g4WL<e\aze;?S|x+B?]U+)_#<PF^:+Ae$},wYskg9Q n19YVsNtOV7?y]uO^t1=mvghBY}<DRF}Mu7}>nXL$ Wu-rIzvONi(x3bs)<6w{S^L{]:zJrqg|k cD*euV&$;<%P?br>C+i=7^%aA{Z}O~/M1=78}"I?._zXz+xZiAUW?Jt?>C+}c8km7v1hl~_=F
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7+J)}>Gyx/Vs.)G_'e|{^&R~kuGZzu9ro,7`B!eTR~D^\\ yb>;:~OJ,zdHdXx7;kPqCO:@$R2gE5Y~2f1Ik\+1 -2zgJ_H'Ly>3!nr`yX*P
Z@".!D>}zpg t{Wp+M(obCA2Q/?V}#W>hc}.\nBH5$'R p_k2 #u&/B)on82[|6kBMU{+ r7Fa*|Q_g+AMHPZ3:K>^ b!WdWREC5Dn+Cri"W4c5z&|(6GcXVAc,<?\^ls)#]UMzF)MOXd5aKrcB\o2$tt\S;Am=9^}]3gY:<7:OZy9TkJd|Ep ^\tn~[>$sN.W5%uP5>LaWfJWL!-y7z5z%R*r7~KE[@jK`Y69O>/6h`5{tod
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 @ @\@ @ @@%0TB} @ @ @vvh. @ @ @*> @ @ vF@;;a4 @ @ P Pc@ @ @@;#A0@ @ @J @ @ @ N @ @ TB@% @ @ `hg'B @ @*!Aj@ @ @hg0Fs!@ @ @ P 5 @ @ 3  @ @ J`@ @ @\@ @ @@%0TB} @ @ @vvh. @ @ @*> @ @ vF@;;a4 @ @ P Pc@ @ @@;#A0@ @ @J @ @ @ N @ @ TB@% @ @ `hg'B @ @*!Aj@ @ @hg0Fs!@ @ @XNIosl@ @ @@$vyh4 @ @ @i04!@ @ @vyh4 @ @ @i04!@ @ @<jZ>
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attach,authentication-resultsNx-ms-office365-filtering-correlation-id4x-ms-traffictypediagnostic6x-forefront-
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3IPM.NoteLicense URLs and Parent component details for Windows 2019 LTSC imageEX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23S__substg1.0_0037001F*,__substg1.0_003B0102*#'/__substg1.0_003D001F*__substg1.0_003F0102*&(2PDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-AMAKOTHA@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-MMALAYANMarimuthu Malayandi (mmalayan)@B+//o=ExchangeLabs/ou=Exchange

Administrative Group
(FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f14858__substg1.0_0040001F*5<__substg1.0_00410102*
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(amakotha)@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
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and Parent component details for Windows 2019
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MMALAYAN<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.pReceived:
from CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17)

by DM4PR11MB5407.namprd11.prod.outlook.com with HTTPS; Tue, 20 Aug 2024

12:38:29 +0000

Authentication-Results: dkim=none (message not signed)

header.d=none;dmarc=none action=none header.from=cisco.com;

Received: from SA2PR11MB4793.namprd11.prod.outlook.com (2603:10b6:806:fa::8)

by CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17) with

Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.7875.19; Tue, 20 Aug

2024 12:38:28
 +0000

Received: from SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef]) by SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef%4]) with mapi id 15.20.7875.019; Tue, 20 Aug 2024

12:38:28 +0000

Content-Type: application/ms-tnef; name="winmail.dat"

Content-Transfer-Encoding: binary

From: "Aman Kothari (amakotha)" <amakotha@cisco.com>

To: "Marimuthu Malayandi (mmalayan)" <mmalayan@cisco.com>

CC: "Salil G K (sagk)" <sagk@cisco.com>

Subject: License URLs and Parent component details for Windows 2019 LTSC image

Thread-Topic: License URLs and Parent component details for Windows 2019 LTSC

image

Thread-Index: AQHa8v020JWnR34fHE2Oj3tu5q9IEw==

Date: Tue, 20 Aug 2024 12:38:27 +0000

Message-ID:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

Accept-Language: en-US

Content-Language: en-IN

X-MS-Has-Attach: yes

X-MS-Exchange-Organization-SCL: 1

X-MS-TNEF-Correlator:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

MIME-Version:
 1.0

X-MS-Exchange-Organization-MessageDirectionality: Originating

X-MS-Exchange-Organization-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-Organization-AuthAs: Internal

X-MS-Exchange-Organization-AuthMechanism: 04

X-MS-Exchange-Organization-Network-Message-Id:

ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-PublicTrafficType: Email

X-MS-TrafficTypeDiagnostic:

SA2PR11MB4793:EE_|CY8PR11MB7747:EE_|DM4PR11MB5407:EE_

Return-Path: amakotha@cisco.com

X-MS-Exchange-Organization-ExpirationStartTime: 20 Aug 2024 12:38:28.5883

(UTC)

X-MS-Exchange-Organization-ExpirationStartTimeReason: OriginalSubmit

X-MS-Exchange-Organization-ExpirationInterval: 1:00:00:00.0000000

X-MS-Exchange-Organization-ExpirationIntervalReason: OriginalSubmit

X-MS-Office365-Filtering-Correlation-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-AtpMessageProperties: SL

X-M365-Tenant-Cisco-ID: d8eb5f98-55ca-42f7-92f6-452cfa7add59

X-Microsoft-Antispam:
 BCL:0;ARA:13230040|366016|41050700001;

X-Forefront-Antispam-Report:

CIP:255.255.255.255;CTRY:;LANG:en;SCL:1;SRV:;IPV:NLI;SFV:NSPM;H:SA2PR11MB4793.namprd11.prod.o
utlook.com;PTR:;CAT:NONE;SFS:(13230040)(366016)(41050700001);DIR:INT;

X-MS-Exchange-CrossTenant-OriginalArrivalTime: 20 Aug 2024 12:38:27.9860

(UTC)

X-MS-Exchange-CrossTenant-FromEntityHeader: Hosted

X-MS-Exchange-CrossTenant-Id: 5ae1af62-9505-4097-a69a-c1553ef7840e

X-MS-Exchange-CrossTenant-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-Network-Message-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-CrossTenant-MailboxType: HOSTED

X-MS-Exchange-CrossTenant-UserPrincipalName:
3w+lEr5Syz6Ul7XhnjV+ziQoyeAButBZPWvDHcUEHStczQepJ216vYEgy1ezPTqd4EYOSjEcvIT2xgXlBIYKgA
==

X-MS-Exchange-Transport-CrossTenantHeadersStamped: CY8PR11MB7747

X-MS-Exchange-Transport-EndToEndLatency: 00:00:02.0031318

X-MS-Exchange-Processed-By-BccFoldering:
 15.20.7875.019

X-Microsoft-Antispam-Mailbox-Delivery:

 ucf:0;jmr:0;auth:0;dest:I;ENG:(910001)(944506478)(944626604)(920097)(425001)(930097)(140003);

X-Microsoft-Antispam-Message-Info:

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GfgL4yZbDwgjYDnkA0kK271yHAHUFqSqrIWVm2TUTQpAIxHAzOmntq10Z2XTD0sP2eUsDXoliSeBx3ZTnF
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Kugp2QrEAAM2aNn5pmvb1UVXR8+stxZhc9e7OBLFLXYC2hqWknvkWEetYmKRl5zvjlUfXtIIYLBRRPYGHc
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amakothaAman Kothari (amakotha)EX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
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Marimuthu Malayandi (mmalayan)InboxLicense URLs and Parent component details for Windows 2019 LTSC
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g1.0_1000001F*JLs:(Zi%:(ZiAG~M{nHHi

 Marimuthu,

As per our discussion over Webex, please find herewith links to Licenses, Third Party notices and Image details for Windows 2019 LTSC image:

https://hub.docker.com/r/microsoft/windows-servercore

https://3rdpartysource.microsoft.com/

https://www.microsoft.com/en-us/legal/third-party-notices

https://github.com/microsoft/containerregistry/tree/main/legal

Have also attached image depicting parent component.

This is in reference to -

SBOM: https://corona.cisco.com/releases/331413/images/1186257

TPSC scan: https://tpscompliance.cisco.com/compliance/product-releases/product/1343902673/release/2143298352/commercial-bom

Please let know if any other details are required.

Thanks,

Aman

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US>a:GnkFs<FRHypTHO!y5c-p8@; 99A:#467886AP-08a:uP Ue>TcED17UV5pU:U!P0@l!p=KLMX%P
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 "LanguageScores": {

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  "Language": {

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  "@outputVersion": "1.0",

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  "beginIndex": 0,

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"@entityExtractionTrustLevel": "Unknown",

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"url": "https://www.microsoft.com/en-us/legal/third-party-notices",

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      "@entityExtractionTrustLevel": "Unknown",

      "@outputVersion": "1.0",

      "@schemaOrgVersion": "1.93",

      "url": "https://corona.cisco.com/releases/331413/images/1186257",

      "url/urlTextSpan": {

        "@type": "TextSpan",

        "beginIndex": 0,

        "length": 55

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      "@EntityId": "af484eef-5280-4c9c-8ee4-26da2dc6f0ba",

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"@entityExtractionTrustLevel": "Unknown",

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"@schemaOrgVersion": "1.93",

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12:38:30
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u}__substg1.0_8023001F*t@__substg1.0_8024001F*z|[

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  "url": "https://hub.docker.com/r/microsoft/windows-servercore",

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  "url/prefixText": "notices and Image details for Windows 2019 LTSC image",

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releases/product/1343902673/release/2143298352/commercial-bom Please",

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s} Xn

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  P (L/^,pzOquUVYdppk%

B PH9nsAnAi$=4+0h>1D$SFhP_pOuST)

!9{]y|,o#l[x!:A0J&l7ZG;Va<+r"5z;w+P)AQuo&GRQa`i6d%*x:1ty\xU$CT.M;w#fy n +'2tm3Jifx>N_s$yt]

7>IgyiJx<

K? *D!+2v|t6ER:

[O/{d) 7\:_5+#Kf1mSQ,VlQ!f--|%D4;RoAHpy9VYtx:EK!'dVTBnh_"[H`u=mMqr%YUROh6d KR9HH"#@A 2n<H

 'Mr~:G>`6%

2ipd"Lna,C<;hpye-[466%KUYz_~ep

Rj a" T lEr~D| ^wy|G!D8rkHZY

rSHw}goqpB !s(Z`wBuj +^ziZ)YEA

+r"]|"&%{i~C[~(:\SAn]zsAtQp"lNVY*pBCKfTc*Qp//M1#?z]qXOT'gHA9|)<R@

?NM?KJ{6HJFK"`TQBV.XU_Yc5(n;9=3xS?Hw<PR v`S $'6_vyGEVZMWF~yV~ f[I1[!cO~&D.'?xOS5+@mZ

I[y2 rsm iC# #f/uA]IuO#

6g2!LH^D6x^xn8RC)t>t(9cP{Wt M}

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YwJ5sO;3UN|J

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^7U5oIJ*u=]VJZl1:YnXN/NJYbUc~]{*Kqd)&y'6fOJY5ZLd[KciU.5dhmbj9%]{ujWKH$ d?a

XL$@{mBlx!E#Lj_lg9=+!Q,oF? O8Q[XKTX&CP}o/v.s"<:Pu~J+

O$.B"EmGyT?6p{uB=9-[9I'L`#i|=Fa"W~Dkva;/A

Dm1*AWZ^bLS9Vm!Xw

$zq1VIeG'q!|BNIaNOww%V(H]%`z(S&Z/M@d@H!+SxzzxxuBmyPUGE@r`Tp|cv=$o %CZ`n7>b|@$_t}zxS

*]j^91ElU9BLu3g |fQW>rwhZqn,kv|C8!TU F$@$?i @Agv~(<f:}S1{4{$s>|xP,wn[nq~O9

:3wE> eX503?/gQ]}\nWX2E39@?+<y6}>$Eo[za!

`u]q_Du{: A0 J\wubokXW/i2q]aLg!*+|}eb9^{b^+hv["8,Y9Qk8y/-@}FSH4<^bG2~ `&~b{,|.u~kns|RJ9D)-[e;F

^xyv~_*;\rCd7j1x+K;]%sC[GUB1 +& p /pG$@$e]Z-/

euc9&T~@8DB:p1uIL1wmbc2}-8oVyp]v%UPAN=T9affw?2:/o%D%?G6;~"27x/   C{ 6G>\yQqh

A@6`[yP|Bx*Yt=<Mp@='oUL.+w}*~d*y]g+E# *\y+Q#^vk7l_~=G[6c'?

 5~uE 8CYQn,qn3g]tfb}cQP;^,_=c e81LcL+g;;?j1<m<8

!P49Ss9JRjGh DH0Yq8p]b! m:7 M/_j9\?L-W!\pNgOIOO},36[6.%&nqO"Q{ {#_FFr.xLMTy=s5v{rq!Kq@ugx

L)+Lz{Gsj23 >Z;[qmXyYBe{$@E]gY1rCOy^ m7_SPdMD# =%coH D@(

z ygAakyK7Lh;X:$Z83+]UTf0c.Ix8nvgQm\+2fvI+GD}(s~@cWe

$paUzy 78?~>XkWc0`&n'_Lp ,))ZkjbvUJZZ y,{\h/8qFRsU1LDb?q6)__)VqK$A

pGPL88Ge"9'^+6ch)w3~];X s+g[YcvH&mjw:${X#(0#THK^ gs\gF|7*NvM$@$;\!;~<H

r.ZUpUT;vt9Zb!19PGA3^~C>14>*3fp.Ua :z)>jNf

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+r2@Bf.wSP~*QpGpp\Y$Fp3o^a+uU,>#+yv4V\1|\`P} 0`8.dYW$K2sf"H   (d{/EuS^w

P"7k+e$j(%SRG;]]#++?;6h`8eR$-4E*mT0a$ oHp"a/a7n~#1Nw8,Z(w]>F[$lI|onJS4~GN

cxa%HN;m&g!5B:

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1CV*US^jT^]j%mq$$@$@$@$@$@$@$@$PP(d%[n*.Nk&k-
ZHuXH$@$@$@$@$@$@$@$@$@UXH{[NrI9CjQq$@$@$@$@$@$@$@$P8 P(&c+W#Fq/l>oF-[f0
7$@$fGb1/b&N%J<q|)M~$6?u;
EU9B#%Kgu=Xu?o@?Sg}(@^_mUV$3eKs0e9RJ(7={t222'K2e$!!A6m*zG>kN3:1j3fSNxE[7]Ke|Pvm]'Nd"
mQFgOc2iy')))V&/}z+VVO>4lN>d0`3>
@W7xCpp<\=4kQ:ukg|RuSSSs~Z K/MGRF
>6mZa_?IKKw3QFe   @1l*=md{/Eu@ip>LId}Ye,\lA[C >$Iz\Q${NA(o;pNn
9j*)VX:>-(*
0bC
mqF]l?2i$;w.>SO=%wqGP9

&w)9%4AmKN?t3gN>.7xcSN(vD/\~mnk.q/,7tq6{UNu:F;{vdYAQ/F:CcPKe{6HQsL:}tq+_ `8
"%\bgbY%ew{,'{
6>8
usx-,#   "P HHL|{W_}t~%`5k3sL1;<\<xNUrK1 YCEoZ]we9J!tV8r'<"O>}
g:tampVC tx/#
fIY3fnu
4vXkE`;}Pxqn]+NW`f1->H .92+}n}kA
!L=Z h([t5>a7 ` @_,X UFXmip
3!8@BuYA-N8N3.'4?l$@$@$@$@$@$@$@T8 KH
8
s6;dbG7Bg'00!a<m[[N^8868:1N][wqV[pb'-08C6j9bGiYjF8 8Nb'7BAXaf7b%M4^@~^JmBI#B T "*bA(bu(
{P7/r}//=m{9g4h,J[PB{<n"YfZ08 Y)wj7%UpP*0$ha0${uFPJZG}$|=am\0e0F*1w^8p
%=$&&FG(~<3xL]XANE@9h!RJ^-r
     g!{IC
jktxeQtKra7c.qGeUAcmmr 1X;~:.E.X2e p!4nkVK!o
HuNYxf@fvfACFNEQ<D0b6!P{+p}S@F`P Vc)%<OR&Yd@y3p<44T0!0X"!f@03`A#.'3.0V(K_|0IHHHHHH,h*
GVeRm$)1Po}FXwd[qR=A 4'E9p=9R/A>80!,#r
xBp3us43 `(M('E7@JK/+l[(m! `dr #f[A0Xe:916eM'sK_A#1g`Xl#uGwax'rJxkWNom8}$@$@$@$@$@$@$p>pi+5
T[.?x# r
O~" @!3JN2U%r {AeS3d
[lq
j%*$/un^[|r-x:)0#g@B,z3zjor091;
y|0D0(C=$2x%p`<`T1M; rB6g11# bXz={CrO$@$@$@$@$@$@;g
H"`t7!;xAC~u7m'.\B!.#Hjnfqia-dHBPRJX(! 2&poW^@x#xcfr@o&\(_[n':Q5lA0*_fS0nV#NCY_+WsNK]Haa9
8 p~ 1BH
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83
GcX&{`($@$@$@$@$@$@$@
 #Jg1q W%\ $
@;J?f#W7aW"QF^BP9@R^sa &*`yg$0@[o0C-?)k_
g_hmf8mBL|E(F [0[00v
V~!zCNc06
HQ)$@$@$@$@$@$@$@'Ag3IF24a6N
YSP1e?K(IM"o)0YFw

Iux^'XaM4I0b&*6e^2fGz6Ei=5=aLD^F0[$ aj^!F|LX6I|a1!*<yqtE9g,$@$@$@$@$@$@$@A F,A$pu/
N(Z>}b)[Kie]pB8::ZL|??6l mu'1 ,hB4i>xky
uky/Em{O>qk}unAofb8BM`2o{]GSC~m{R| y!!0 48sM6PI81dP9,@{Nkxq
\%8w @A
E5P_veyk3gbC}-P>kD/oO?
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x?\(-3&B8YF wsX9-(ol\kfU[ZEt'8"dh0 L F={o)_
GKMkf<c360| ;1
,kN{=]$6^^uNh1bf$HHHHHHH /2 sUQe%2M!9RaAP"&;>tPeqC
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dnrHHHHHHHB JLr~EV`/W_s='&y.$/7,[%,<r<3^5aDJ*>=+JW_}Utn7U0+PC-S7!T0|]?yRS%-~0G(P Wp>QXZJ
}q0:!)`5>mm&Sq!00b]HfPHHHHHHH|P5.RIrf2N-z{Ix
w;=3Ycd$rY6B*IhQZQj/@<x(0sN9pG%Q>:wFFitE~o[6<x7#:!%!{xpi}a(@H+Dl`6I]"R    `+rHH$jQ
w|Axke!<O[*@%|4lP)IA|
#0SY4m)fX?   TH4T" s?aHHHHHHHQcPJp8)BPY]"$ {@ $aUjDdf`ORHT
JXDI$@$@$@$@$@$@$@$@$P1 A @)jL %)I9zU0TDb$
{\`!aun*^}J}$<Th($@$@$@$@$@$@$@$@$@$KTB #gJ*Oc@Pd!l@@v,>uJA%-
J2dgHLW3'0Ac@@:vd.)X;+SN0   0J `ZHHHHHHHHHHHL8IW(@IA^   (Gh(G7]!
"@@Ie$@$@$@$@$@$@$@$@$@$@$P PnB$@$@$@$@$@$@$@$@$@$@%E *}V$+}`R~quYZ:
{"A>m`$@$@$@$@$@$@$@$@$P^ ArFefvyq~+X+HW6ddr6;VN:@eW6(e-=eHHHHHHHHH@!HJNlI *I@

`oPC}zMOV%P "M6I    (J -Ofcx<rC FW`poB ~k`G`53 ,V#HpHHH4   7@q({OCYrPRN P\t
3GpNb9!0Ac@v2g8a*}!&g+*^SAY0   @Y`IHHHHHHHHHH
 PJ   %>&   R"@@)f3$@$@$@$@$@$@Ft*@IDAT$@$@$@$@$@$Ph(KlHHHHHHHHHHHJ
    @YA,m   (%4h6C$@$@$@$@$@$@$@$@$@$@eIIHHHHHHHHHHH PJ   %>&
R"@@)f3$@$@$@$@$@$@$@$@$@$@$@$Ph(KlHHHHHHHHHHHJ
    @YA,m   (%4h6C$@$@$@$@$@$@$@$@$@$@eI ,g$@$@$P K]2%"4PMHHHHHHH
Dba (j%z"&3S{+eGOC7~=e`#%~*[
tI:uJU N
-LR/
w7Q   @&@@? F!?SJ;+M}'ZS$wL.Y7]'OI ;CF.?fhUk{+%&Kzk(A2%HF- XUke_ri##I4S~]/Z<%"<gy,0}\Yr8yR
ThYoM*   @YA'(29t[N{;?P)J[65-[)}2<x_~Zk_$dKRbS
NW*Kt'Ks0w3xI:%++;_`gITYnfM)zs
:"}9y2{whLf,ZV O@o7x%5A!   D
Vk!@*Udn
PZ;vL6o,|[>#=[r+VwY]g_}|(ZtlJc/P[-ChR?XF\XPb0>{+l
pIt_s !NVTZj?s.3= O#^qNWS~T#
eq&   @ADr $,}qlN:-[1c;%:#w(=[6GD[x'pZq>qIxa7HAxWcdU%*R@wB$@$@$@$@$@$P&<c!I(<uCiii0P k_
{ymJN6MCaoC!Ct;k/gb6*2'B)6lR)+jdtV({Az(c\-fz>j=TuBNU0Eamq\?[fI^iK   {b)
(vkvyo!}^8qhROC2n8aJ?Oy,]&vVP2@_SdTT<jvl.NVWE.0W<Ki8H$}$k"^K*+CUVnKOgU[2=hV/Dz 7TkReOo-
U~ |ie^^~;%SJ'RN"#&uV~^"|J2-3NPMw:*'%bHy$t)okG+YsUrkdr Mur|"[d2;/:^/M;du{!9|$A*U
hy};+dX,P?:H7z-jzB?W(s/+WukWV?F*hs@KqZUuN.^ia{OY%9?fS_y569f#@?v
v(u.YllO$z2Sx;VLN>P85K/51>FOH/}z&Xc,Hm=<*tRSrMg!>>rAVr'JyYYd1IW
Vu{IF3~Ucx}z^MY>@>gc7>6Z-R}L}oP!/Hc[v{]&
  (^4/OF$P \RR.]>+ygedYzo6^BxRhuRJ$~F'EP-*HzC2"SiiI2WQdRJJUINa1
{8^g*Hv\"O=6)>sT2Z1[j\XjS'db2*Gjl)soTy(Yk4e >
]m#*U*>Z(N<~BQ.:7I?~B@Ocs 6vg[.}yN~x#6/8fNt|>1FS

Jip;x\|]$a~Q,2U%vra7G!2<~qj^vv{([}Q_ks\&uxhlC>W>XKF
96\[2QrrlSV,wHPpeA}@B?^,_Q9K)+]VA@pNxR^~c}q(w?Ir+_r/~"*'N&)U]p~Uca9Q}|<{29[ezcpBavYKz
k6I+7HHHHHt8UJaB$@Γ`;&:

u7EIFd2ydGHa89,$@v
90 I&<W_y\2<H:PbL3wy}<xC^D+U
KPRne[q.c@!rMJrX)Q&rkGk(/mN6\]m"K6iEk/}y\v5B=^6Q>2.rR P:U LQv*2#uyX<)cv)n2`Dq5[d5aTdu4k8PM|zt
OSf;<C+H7o-S%womh\[yVJe`Xn12ro2kB"5cVa]},YF)<,vntU+'
\q@_i.SUy[?ic}7|JAzP=||<[iHWzE~BW(ZjQlCyt/U[yfM!.4NJp2
_PQ^v
9<>@aV<0M;mh\&|Iy@A^2/YN-J{\9^@_dVYU6o%-5:eO)!Q
~xwppW-8Gclv)j,]AXOWwnfnx&~6W[u5&0aU\nmVw:24L!j%wVgcGLfOVD$]~}gW0cwiJArbYD|-IHHHH
5
xw=ZOHHiBV;6n6ydui&iGNoKq2O\?~2KL<C.(SSjeI_;f]zss7"/>RddCQ[[cM9:(c{H%eTS!Z=_=.{fH}7sS=HuO{
U]#of.:#Os_|BvxKIr AxKPWF
>)`$.*PQ2:DWHzNJ0{R_FiD.urRFvHduS5|E/
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O3@W\N>*t(&(*=wT<`s]C!w
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djNE<zJ0`F
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a8OuXV`nz]0.,||3CD
>*J$@$@$@$@$P\%' p=zSjc_,$F0K*;v:tPTXv+I.J $&0g(oJz@Ss2T~'ItlJ2Z<2`-{EJ+PWUBZ1nc]#fkXblm1PGU
YWs-ucBUayU0x}b!F,^m\uo^{U1Z2U!:On]]Q GdHE}PZ#Od`uG((!69u<ho7Q8(wi`/_U(m'{Wu-Ve)V)9rb!
v+`A{o!k*OPDG|>z}S Ka$!'>fk~7KxXT.4lPQ:G(PBG0nj0e`~m=WN2P?S#   (Ay+X5 $8p+I7o
x<h dΓ`<xl(]AjdWra oI&<Oe73ty#Oh61oR3-
GHWx0?.E9tk6{xn[|1tAf2U>U,oNS.][4kv;=L^FGhU[bc9N5m&$x*b0;x{Ktg#k==$8G)3i1u(e)B9Iznxi':.$FtlcV,r~
y? ^v 9mt(b&/ga5tP{'i{w)O(<!!vsNUKe,E'<74<8d&IFHpBfo] Kd?'#NDj*rq=;:PKzOf
m<ru9)GxB$@$@$@$@$P^nlH@(^Z
&~-[T|nvYtiA&W\!y9=*/ =BtR'6cUum5TXc\%fwy(_7WJGaWVeLye @3.v#_[Y=r12zU-F7mUV__bctRD*
G]1Mx#ERnT,YV.tJ~XKjj+Qy'ty(dTnr;zY'N&f7}wc \0
[])(f;:f2UU7r?XR1_VCn'Td*xOxB1~%0OGcDRd< 8$l6-O8gx~I]NaHLC!
(76B$@%O}gIT$y_h{1y9z\QrX[#I&<Py*maeRCbTd=^1|ILIi0wzA2xyC%uYT1,I]o=S>G]LrC_swX6]^Sp]'O${v
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 P527GsdP>>K_wg?T.f\8!"V5/oUr>oF%a6#-0QY!   !@@pf+$@jE(>>^>} d>9q
D&07]
iQy$X>co
S}x2xX\f<}[5yri2{Y>MdyaduB Wb8BU2y
6}(/KhfSRb,?Nz/'v)#r!f ?bF&ic8tl2uz}A$OX9&wIjg(0@6nYP"c@joFVLJ.%wqr*jA#[d5Vm{+7/&O4SI{
~O'$5(SS,Vrs~Y3   #@@fK$@@tt6$'{z(!lk7C_"eA\;2d2!_3CX-k>/qA`s{g*sscZ} +#o&/g!L(3JMW=19y5
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f
dYHN s;De-DFFHrrXg/Si_]x.U((#fB 1hVc&?K3o6SSF
BV Px0eh/e{wy5B$@$@$@$@$Pz)=lH [u/Zv%4win dYHQUrKRdnNt_.=n-SE~<16Q{u\M;3Mf.s

*HNSL=7u8%iT3X%wum{]2d^zzze8 Vt &7PDS+[1xPCbscc;.&`7nPGe1+".
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Yvni>   '@@#f$@O>B3 t[r.o^{MRRRT\r58/FXZi5cV'%gWs\><E~]*B^#W+G;flwPA#"W&Ip,2 r\{+)/
~A9pLyqj>\/.S/y3q5*_A=BuZy-
BlR!OdEnfNm<\:5kBcfcf5O+ji?4J9<{~Bv'u&R]o?wS,[[UcV*oW/Eq0}<RFec/d$U(-
$k0D%S9JA;k6ly%u]\KWvy2Y`*w<O9+;;{&    (a40`VO$Pzue)rUWo;sg5j!l$-
nSC+="fJ(Q(@}.hXIR39I>Nn}#c0_H<SOKr?[pCQQN^<{{GkI.%_/f*T}Dx~(2_ ts]c2kKjvP@BUc1{?L&\#GS{g
'5 Mid8M~Zu/s
P|)W,g{ch/dJ
7s`.w^I4]CT I]{yK)>_z3e0',[AA,/UkISgt\eTnXK _#v@y
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1K2t9w$ @ @,IyVGy+^Qz[I.$<(0'|r 0m_ElP^^~fL(t'hMK?Cvd6NKFXuQ&o,&_IXJeX@ ~43Ox6:=/6?r-
sJ&1N(o|_~=awh|N_|;_&55zSuda&*N\|Vdyo~[w"#c%UYN|eO~CkwK&BIdh @ @\yJ>{Wt8 l:
l&=lD#o?['mn3_b~Y"L:W:^=~u#h\7q\'yuOoG>2|1L~N)?5&^WMda_D&?n^`nL^j"a8/~
T8}\C5wgL9FO>C(/~f^nk&G1mR.h"/j=^@dG} @
@NHZm|i(%Ma3R7#[O]p[$=Chc?iOm>0s__2XL`TM~^#<Y7ncAJFz[qZ5#/xA3uYaV>ai{y6^lfCYk;@gt3ix[?[o|o
a%s\nVYF
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J=>X}wn5 @ @uaE>cmo{U+-[s5{Y^.#3pF)XwK$L|
mwMoZ#e^[N?jE/j]7xy/|W^y*~V}{E7Z'N>l
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R{/'gg<=F>3Z;nwk=Dqz+ @ @VY`PUNsM$[.'/lt2gNK/t7aLw4VM<le~ihzpWM=Y&k+k'u[n9uRSZ= @
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 W_}Uc1tEF`@1[nUc(k6_b$)RDC]B/`dPpMcG}QsBO-4w6mTG\0wWQZ .erZhh)/yP7q7mN) d!F@_]*.
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=&0Yej(Q5BGC 64^w?gysZj7F
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sJFxup*8}0IZyOCI{H_L&q>#V Oytx8jsy|2rqI91jwe#|:dyipJ`p|tyzN'+VX,Z.q.UBv+A|3d3 LIM"B*54Bn/k('\z
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Newtonsoft.Json

Source: https://github.com/JamesNK/Newtonsoft.Json

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StyleCopAnalyzers

Source:
https://github.com/DotNetAnalyzers/StyleCopAnalyzers

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Source: https://github.com/JamesNK/Newtonsoft.Json

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StyleCopAnalyzers

Source:
https://github.com/DotNetAnalyzers/StyleCopAnalyzers

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1.54 mimekit 4.3.0

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1.55 sevenzipwrapper 1.0.16

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1.56 system.memory 4.5.5

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new XElement("fm",
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1.57 sharpziplib 1.3.3

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1.58 visual-studio-runtime 14.16.27033

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http://www.cl.cam.ac.uk/~mr10/Bench/README

Please feel free to re-implement this benchmark in any language you choose. I would be happy to incorporate such tranlations into this distribution together with their timing/size results.

Martin Richards
23 February 2007

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  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
  new XElement("p", "This work may be freely copied and distributed worldwide.")

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 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
  <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
  <IlrtTestKind>BuildOnly</IlrtTestKind>
  <!-- Test unsupported outside of windows -->
  <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
  <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
  <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
  <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <ProjectReference
 Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
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https://github.com/madler/zlib

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

By Sean Eron Anderson

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