在Nexus平台上使用策略配置智能许可

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简介

本文档介绍如何在Nexus 9K平台上使用策略(SLP)配置智能许可。

先决条件

要求

Cisco 建议您了解以下主题:

- Nexus NX-OS软件
- Cisco NX-OS许可选项
- 域名系统 (DNS)

使用的组件

本文档中的信息基于NXOS版本10.2(5)的Cisco Nexus 9000。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原 始(默认)配置。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

配置

智能软件许可(SL)为您的所有思科产品提供单一的标准化许可解决方案。它是基于云的许可端到端 平台,由授权思科产品使用和报告的工具和流程组成。它可以在产品实例上运行,并通过Smart Call Home传输介质与思科云许可证服务通信,以完成产品注册和授权。

使用策略的智能许可(SLP)在Cisco NX-OS版本10.2(1)F中引入,它至今仍然是唯一受支持的许可模式。

使用策略的智能许可是智能软件许可的增强版本,其首要目标是提供不会中断网络运行的许可解决 方案,而是支持合规性关系以说明您购买和使用的硬件和软件许可证。

使用策略的智能许可基于荣誉。但是,许可证使用合规性要求软件报告。

思科智能软件管理器(CSSM)负责管理帐户和许可证实例。CSSM在Cisco站点上全天候运行。

方法

将Nexus交换机连接到CSSM的主要方法:

- 直接:您使用互联网连接直接指向思科站点。
- 通过思科智能许可实用程序(CSLU):这是可以在您的计算机上运行的软件应用。安装指南.
- 通过内部许可服务器:运行思科提供的操作系统的专用服务器。<u>安装指南.</u>
- 离线:您在Nexus交换机上生成报告,并将文件上传到CSSM以生成确认文件,然后需要将该 文件应用于Nexus交换机。



注意:使用哪种方法并不重要,仍必须在接下来的90天内向CSSM提交第一次报告。之后 ,报告频率要求每365天提交一次,除非许可证使用发生更改,否则这需要在接下来90天内 提交另一份报告。

配置

这些配置在Nexus 9K交换机上实施,使用管理VRF进行所有通信,这是SLP的默认VRF。

方法1:直接连接

- 支持智能和呼叫总部两种传输模式。
- 在NXOS 10.2(2)F之前,仅管理VRF在Call Home传输模式上受支持,同时开始支持NXOS 10.2(3)F非管理VRF。
- 在NXOS 10.3(2)F之前,智能传输模式仅支持管理VRF。从NXOS 10.3(2)F开始,还支持非管理VRF。

步骤1:配置DNS客户端。

Nexus(config)# ip domain-lookup Nexus(config)# vrf context management Nexus(config-vrf)# ip name-server <dns server ip>

第二步:配置智能传输模式。

Nexus(config)# license smart transport smart

第三步:指示CSSM URL。

Nexus(config)# license smart url smart https://smartreceiver.cisco.com/licservice/license

第四步:在<u>思科站点</u>中创建信任代码(令牌)。

登录到思科软件中心>智能软件许可>资产>常规。

点击新建令牌……

Cisco Software C	entral > Smar	t Software Licensing				D Interna	alTestDemoAcco	unt69.cisco.con
Smart So	oftware	Licensing				SI	Product Details	Support Help
Alerts Invent	ory Conver	t to Smart Licensing Report	s Preferences	On-Prem Accounts Activi	ty			
Virtual Acco	ount: CML	- bpaez					1 Major H	lide Alerts
General	Licenses	Product Instances	Event Log					
Virtual Ac	count							
Description	:	Private virtua	account for persona	I use of CML.				
Default Virte	ual Account:	No						
Product In	nstance Re	gistration Tokens						
i ne registratio	on tokens below	can be used to register new pro	duct instances to this	s virtuai account.				
New Toke	en							
Token		Expiration Date	Uses	Export-Controlled	Description	Created By	Actions	
				No Records Found				
The token will	be expired whe	n either the expiration or the ma	ximum uses is reach	ed				

步骤4a.填写所需信息并单击Create Token。

Create Registration Token

This will create a token that is used to register product instances, so that they can use licenses from this virtual account. Once it's created, go to the Smart Licensing configuration for your products and enter the token, to register them with this virtual account.

Virtual Acc	count:	CML - bpaez				、
Description	n:	SLP Test				
* Expire Afte	er:	30	Day	s		;
Max. Num	ber of Uses:	Between 1 - 365, 3 10 The token will be e	30 days recomment	ded the expiration or th	e maximum uses is reac	shed
🔽 Allow e	export-controlled fur	ctionality on the produ	ucts registered with	this token ()		
					Create Toke	n Cancel
₱骤4b.点击	新创建的令牌	ło				
Smart Software Central	Smart Software Licensing are Licensing	1			Interna SL	alTestDemoAccount69.cisco.con
Nerts Inventory	Convert to Smart Licensing	Reports Preferences 0	On-Prem Accounts Activ	ty		
/irtual Account:	CML - bpaez					1 Major Hide Alerts
General Lic	enses Product Instanc	es Event Log				
Virtual Accoun	t					
Description:	Pri	vate virtual account for personal u	use of CML.			
Default Virtual Acc	count: No					
Product Instan The registration token New Token	ce Registration Toke	ns er new product instances to this v	virtual account.			
Token	Expiration Date	Uses	Export-Controlled	Description	Created By	Actions
NGFjYjcwMjYtZjlkN The token will be exp	i0 2 2023-Aug-21 02:58:	42 (in 30 days) 0 of 10 or the maximum uses is reached	Allowed	SLP Test	bpaez	Actions -

步骤4c.按ctrl + c将所选文本复制到剪贴板。

0 ×

InternalTestDemoAccount69.cisco.com

SL Product Details Support Help

Cisco Software Central > Smart Software Licensing Smart Software Licensing

Alerts Invent	tory Convert	to Smart Licensing Re	ports Preferences	On-Prem Accounts Activi	ly		
Virtual Acco	ount: CML -	- bpaez					1 Major Hide Alerts
General	Licenses	Product Instances	Event Log				
Virtual Ac	count						
Description	n:	Private vi	rtual account for personal	use of CML.			
Default Vir	tual Account:	No					
NGFjYjcwMj TkzY2YxLTE AwYUxXbjN oNDM4%0A Press ctrl + c	jYtZjikNi00ZDA41 220TI10DY3%0/ BOVdUMGQwY1 4c0RCND0%3D9 to copy selected	Control C	broduct instances to this	virtual account. Export-Controlled	Description	Created By	Actions
NGFjYjcwMj	jYtZjlkNi0 🔼	2023-Aug-21 02:58:42 (in	30 days) 0 of 10	Allowed	SLP Test	bpaez	Actions 👻
The token will	I be expired wher	n either the expiration or the	e maximum uses is reache	1			

第五步:在Nexus交换机中安装信任代码。

Nexus# license smart trust idtoken <token from step 4> all force Initiated trust establishment with backend. run show license status, for trust establishment status

第六步:确保Nexus存在于CSSM上。

登录到思科软件中心>智能软件许可>资产>产品实例。

Cisco Software Central > Smart Software Licensing			di Ini	ternalTestDemoAccount69.cisco.con
Smart Software Licensing				SL Product Details Support Help
Alerts Inventory Convert to Smart Licensing Reports	Preferences On-Prem Acc	ounts Activity		
Virtual Account: CML - bpaez				1 Major Hide Alerts
General Licenses Product Instances E	vent Log			
Authorize License-Enforced Features			Search by Device or by Product Type	٥,
Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:N9K-C9336C-FX2; UDI_SN:FDO24400PT4;	N9300	2023-Jul-22 01:51:	01	Actions -
				Showing 1 Record

步骤 7.启用需要您所需许可证的任何功能。在本示例中,启用需要NX-OS LAN企业服务许可证的功能。



注意:NX-OS始终要求许可证层次结构中的枝叶节点。 NX-OS始终要求使用基于功能的许可证,而不是基于层的许可证。

Nexus(config)# feature eigrp

步骤 8确认您使用的是预期的许可证(基于功能)。

Nexus# show license summary License Usage: License Entitlement tag Count Status ------LAN license for Nexus 9... (LAN_ENTERPRISE_SERVICES_PKG) 1 IN USE Nexus# show license usage LAN_ENTERPRISE_SERVICES_PKG

Feature List: eigrp

步骤 9验证<u>Cisco站点</u>上是否使用了预期的许可证。

登录思科软件中心>智能软件许可>资产>许可证。

Cisco Software Central > Smart Softwa	Smart Software Licensing							InternalTestDemoAccour SL Product Details	nt69.cisco.con Support Help
Alerts Inventory	Convert to Smart Licensing R	Reports Prefer	rences On-Prem Ad	ccounts Activity					
Virtual Account:	CML - bpaez							1 Major Hid	e Alerts
General	Product Instances	Event Log							
Available Actions	* Manage Licens	se Tags	License Reservation		✓ Show	/ License Transac	tions	By Name By Search by License	Tag
								Advanced S	Search 🗸
License		Billing	Available to Use	In Use	Substitution	Balance	Alerts	Actions	S
		Prepaid	10	0	-	+10		Actions	5 🕶
OML - Nodes		Prepaid	2000	0		+2000		Actions	5 🕶
• NXOS LAN fo	r Nexus 9300 10G+ Leaf XF	Prepaid	1	1		0		Actions	5 🕶

登录思科软件中心>智能软件许可>资产>许可证,点击列表中的预期许可证以查看详细信息。

Product I	Instance			Product Type	Licenses used
UDI_PID	:N9K-C9336C-FX2; UDI_5	SN:FDO24400PT4	0	N9300	0
					Showing 1 Record

步骤 10确认与思科站点的通信是否成功。

Nexus# show license status Utility:
Status: DISABLED
Smart Licensing using Policy: Status: ENABLED
Data Privacy:
Sending Hostname: yes
Callhome Hostname Privacy: DISABLED
Smart Licensing Hostname Privacy: DISABLED

Transport: Type: Smart URL: https://smartreceiver.cisco.com/licservice/license Proxy: Not configured Policy: Policy in use: Merged from multiple sources Reporting ACK required: Yes Unenforced/Non-Export: First report requirement (days): 90 (CISCO default) Ongoing reporting frequency (days): 365 (CISCO default) On change reporting (days): 90 (CISCO default) Enforced (Perpetual/Subscription): First report requirement (days): 0 (CISCO default) Ongoing reporting frequency (days): 0 (CISCO default) On change reporting (days): 0 (CISCO default) Export (Perpetual/Subscription): First report requirement (days): 0 (CISCO default) Ongoing reporting frequency (days): 0 (CISCO default) On change reporting (days): 0 (CISCO default) Miscellaneous: Custom Id: <empty> Usage reporting: Last ACK received: Jul 21 19:28:32 2023 UTC Next ACK deadline: Jul 20 19:28:32 2024 UTC Reporting push interval: 30 days Next ACK push check: <none> Next report push: Aug 20 19:23:33 2023 UTC Last report push: Jul 21 19:23:33 2023 UTC Last report file write: <none> Trust Code installed: Jul 21 19:18:04 2023 UTC Active: PID: N9K-C9336C-FX2, SN: FD024400PT4 Jul 21 19:18:04 2023 UTC

Nexus#

方法2:CSLU

在NXOS 10.3(2)F之前,CSLU传输模式仅支持管理VRF。从NXOS 10.3(2)F开始,还支持非管理 VRF。

步骤1:配置DNS客户端。



注意:如果您未在运行CSLU的主机上使用完全限定域名(FQDN),则可跳到第3步。

Nexus(config)# ip domain-lookup Nexus(config)# vrf context management Nexus(config-vrf)# ip name-server <dns server ip>

第二步:在DNS服务器上为cslu-local添加条目。



注意:Nexus会自动发现主机名cslu-local和cslu-local。<domain>

第三步:确保配置了cslu transport。这是默认配置。

Nexus(config)# license smart transport cslu

第四步:指示CSLU传输URL。

Nexus(config)# license smart url cslu http://<ip address of the host running CSLU>:8182/cslu/v1/pi

第五步:启用需要您所需许可证的任何功能。在本示例中,您启用需要NX-OS LAN企业服务许可证 的功能。



注意:NX-OS始终要求许可证层次结构中的枝叶节点。 NX-OS始终要求使用基于功能的许可证,而不是基于层的许可证。

Nexus(config)# feature isis

第六步:确认您使用的是预期的许可证(基于功能)。

Feature List:

步骤 7.将许可证使用情况报告(称为RUM报告)发送到CSSM。

Nexus# license smart sync all Initiated sync with backend.

步骤 8点击刷新产品实例列表并验证CSLU上是否存在产品实例,指示完成:使用情况报告已上传到 CSSM。

打开CSLU > Inventory > Product Instances。

			Log out f
	Inventory Preferences Sched	uler	
Produ	Single Product	ech Product Instance List	
	Name	Last Contact	Alerts
	Filter by Device Details	Filter by Last Contact	Filter by Alerts

步骤 9确保Nexus存在于CSSM上。这证实了CSLU和CSSM之间的通信工作正常。

登录到思科软件中心>智能软件许可>资产>产品实例。

Cisco Software Central > Smart Software Licensing Smart Software Licensing				InternalTestDemoAccount69.cisco.com
Alerts Inventory Convert to Smart Licensing Reports	Preferences On-Prem Act	counts Activity		
Virtual Account: CML - bpaez				1 Major Hide Alerts
General Licenses Product Instances	Event Log			
Authorize License-Enforced Features			Search by Device or by Product Type	0
Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:N9K-C9336C-FX2; UDI_SN:FDO24400PT4;	N9300	2023-Jul-22 01:51:	01	Actions -
				Showing 1 Record

步骤 10验证预期许可证已在CSSM内部本地服务器上使用。

登录到思科软件中心>智能软件许可>资产>许可证。

Cisco Software Central > Smart Softw	vare Licensing							InternalTestDemo	oAccount69.cisco.co
Smart Software Lice	ensing							SL Product D	Details Support He
Alerts Inventory Convert to Sn	nart Licensing Re	eports Prefer	rences On-Prem A	ccounts Activity					
Virtual Account: CML - bpa	aez							1 Major	Hide Alerts
General Licenses I	Product Instances	Event Log							
								By Nan	ne By Tag
Available Actions -	Manage Licens	e Tags	License Reservation	C	🗹 Show	/ License Transac	tions	Search by License	0,
								Adv	anced Search 🗸
License		Billing	Available to Use	In Use	Substitution	Balance	Alerts		Actions
 CML - Base 		Prepaid	10	0	-	+10		,	Actions -
CML - Nodes		Prepaid	2000	0	<u>.</u>	+2000		,	Actions -
• NXOS LAN for Nexus 930	00 10G+ Leaf XF	Prepaid	1	1	-	0		, L	Actions -

登录到思科软件中心>智能软件许可>资产>许可证>单击"许可证">"产品实例"。

erview	Product Instances	Event Log	Transaction History		
Produ	ct Instance			Product Type	Licenses used
UDI_F	PID:N9K-C9336C-FX2; UDI	SN:FDO24400PT4	0	N9300	0
					Showing 1 Recor

Nexus# show license status Utility: Status: DISABLED Smart Licensing using Policy: Status: ENABLED Data Privacy: Sending Hostname: yes Callhome Hostname Privacy: DISABLED Smart Licensing Hostname Privacy: DISABLED Version Privacy: DISABLED Transport: Type: CSLU Cslu address: http://10.201.255.233:8182/cslu/v1/pi Policy: Policy in use: Merged from multiple sources Reporting ACK required: Yes Unenforced/Non-Export: First report requirement (days): 90 (CISCO default) Ongoing reporting frequency (days): 365 (CISCO default) On change reporting (days): 90 (CISCO default) Enforced (Perpetual/Subscription): First report requirement (days): 0 (CISCO default) Ongoing reporting frequency (days): 0 (CISCO default) On change reporting (days): 0 (CISCO default) Export (Perpetual/Subscription): First report requirement (days): 0 (CISCO default) Ongoing reporting frequency (days): 0 (CISCO default) On change reporting (days): 0 (CISCO default) Miscellaneous: Custom Id: <empty> Usage reporting: Last ACK received: <none> Next ACK deadline: Oct 20 01:09:12 2023 UTC Reporting push interval: 30 days Next ACK push check: Jul 22 01:18:02 2023 UTC Next report push: Aug 21 01:13:03 2023 UTC Last report push: Jul 22 01:13:03 2023 UTC Last report file write: <none> Trust Code installed: <none>



注意:

使用此方法时,系统预期在show license status中会看到Trust Code Installed(已安装信任 代码)。

首次与CSSM内部同步时,ACK将如在show license status中一样收到。第一次推送下次报 告后,此情况会发生变化。

方法3:本地许可证服务器

- 内部部署仅支持CSLU传输模式。
- 在NXOS 10.3(2)F之前,CSLU传输模式仅支持管理VRF。从NXOS 10.3(2)F开始,还支持非 管理VRF。

步骤1:配置DNS客户端。

Nexus(config)# ip domain-lookup Nexus(config)# vrf context management Nexus(config-vrf)# ip name-server <dns server ip>

第二步:确保配置了CSLU传输。这是默认配置。

Nexus(config)# license smart transport cslu

第三步:确定CSLU传输URL。

登录CSSM本地>智能软件管理器本地>选择本地虚拟帐户(右上角)。从下拉菜单中选择资产>常规,然后点击要复制的CSLU传输URL。

On-Prem License Workspace	cisco	Admin Workspace 🛔 Hello, Bidkar Herson Paez Lampon Log
Smart Software Manager On-Prem > Smart Licensing		CX Americas DCRS VXLAN v4 👻
Smart Licensing		
Alerts Inventory Convert to Sm	nart Licensing Reports Preferences Activity	
Local Virtual Account: Default		
General Licenses	Product Instances SL Using Policy Event Log	
Local Virtual Account		
Description	This is the default virtual account created during company account creation.	
Default Local Virtual Account:	Yes	
Product Instance Registration Tokens The registration tokens below can be used to register new Smart Transport Registration URL-For products that suppo still use Smart Call Home, you must configure the *destina Guide for setting the destination URL value.	product instances to this Local Virtual Account. For products that support Smart Transport, you mu rt Smart Licensing Using Policy that use cslu as transport, you must configure the "license smart tr tion address http" on the product to use the Smart Call Home Registration URL. The recommended	ust configure the "license smart ud" on the product to use the ransport cslu" to use the CSLU Transport URL For legacy products that d method is Smart Transport. Please consult your Products Configuration

第四步:指示CSLU传输URL。

Nexus(config)# license smart url cslu https://<on-prem hostname>/cslu/v1/pi/<virtual account>

第五步:启用需要您所需许可证的任何功能。在本示例中,启用需要NX-OS LAN企业服务许可证的 功能。



注意:NX-OS始终要求许可证层次结构中的枝叶节点。

NX-OS始终要求使用基于功能的许可证,而不是基于层的许可证。

Nexus(config)# feature ospf

第六步:确认您使用的是预期的许可证(基于功能)。

Feature List:

```
ospf
```

步骤 7.将RUM报告发送到CSSM。

Nexus# license smart sync all Initiated sync with backend.

步骤 8确保Nexus存在于本地CSSM上。

登录到CSSM本地>智能软件管理器本地>选择本地虚拟帐户(右上角)。从下拉菜单中,选择资产 >使用策略的SL。

On-Prem License Workspace		cisco	Admin Workspace	A Hello, Bidkar Herson Paez Lampor	n Log Out
Smart Software Manager On-Prem > Smart Licensing Smart Licensing				CX Americas DCRS VXL	AN v4 👻
Alerts Inventory Convert to Smart L Local Virtual Account: Default General Licenses Principal	Joensing Report	s Preferences Activity SL Using Policy Event Log			
Add Single Product Actions for Selected *	Export/Import All	•	Sear	ch by Name Q	
UDL_PID:N9K-C9336C- FX2;UDL_SN:FD02434107N;UDL_VID;;	Product Type N9300	Last Contact 2023-Jul-20 18:11:29	10 Showing Pa Alerts Vsage report from proc	ige 1 of 1(1 Records) (≪ >>> >)	
·			10 - Showing Pa	age 1 of 1(1 Records) 🕅 < 🕨 🕅	

步骤 9验证预期许可证已在CSSM内部本地服务器上使用。

从下拉菜单>资产>许可证登录到CSSM本地>智能软件管理器本地>选择本地虚拟帐户(右上角)。

On-Prem License Wo	rkspace)) (1	sco	Admin Workspace	A Hello, Bidkar Herson Paez Lampon Log Ou
Smart Software Manager On-Prem > S Smart Licensing	Smart Licensing				CX Americas DCRS VXLAN v4 👻
Alerts Inventory	Convert to Smart Licensing	Reports Preferences	Activity		
Local Virtual Account: C General Available Actions ~	Anage License Tags	nces SL Using Policy	Event Log		
				10 - Showin	By Name By Tag rch by License
License NXOS LAN for Nexus 93	Billing 00 10G+ Leaf XF Prepaid	Available to Use In Use 1 1	Substitution Balanc	Alerts Alerts Insufficient Lik 10 Showin	Actions → g Page 1 of 1(6 Records) 14 ≪4 >>> >>

登录CSSM本地>智能软件管理器本地>选择本地虚拟帐户(右上角)。从下拉菜单中,选择资产 >许可证。 点击列表中的预期许可证以查看详细信息。

NXOS LAN for Nexus 9300 10G+ Leaf XF In Default

LAN license for Nexus 9300-XF

Overview	Product Instances	Event Log Transa	action History	
Product Insta	ance		Product Type	Licenses Used
UDI_PID:N9k	<-C9336C-FX2;UDI_SN:F	DO2434107N;UDI_VID:;	N9300	6 <u>1</u>)
				Showing All 4 Records

×



注意:使用此方法时,在show license status中会看到以<none>形式安装的信任代码。

在您第一次与本地CSSM同步时,系统预期会看到最后一个ACK接收为show license status。第一次推送下次报告后,此情况会发生变化。

方法4:脱机

步骤1:禁用智能传输模式。

Nexus(config)# license smart transport off

第二步:启用需要您所需许可证的任何功能。在本示例中,启用需要NX-OS LAN企业服务许可证的 功能。



注意:NX-OS始终要求许可证层次结构中的枝叶节点。

NX-OS始终要求使用基于功能的许可证,而不是基于层的许可证。

如果没有激活的许可功能,则无法保存RUM报告。RUM报告捕获设备中的许可事务以供上 传。在绿地设备上,没有要报告的内容,因此它是空的,不会生成。

Nexus(config)# feature bgp

第三步:确认您使用的是预期的许可证(基于功能)。

License Usage:	mary		
License	Entitlement tag	Count	Status
LAN license for Nexus 9	(LAN_ENTERPRISE_SERVICES_PKG)	1	IN USE

Nexus# show license usage LAN_ENTERPRISE_SERVICES_PKG Feature List: bgp

第四步:生成并保存RUM报告。

Nexus# license smart save usage all bootflash:all_rum.txt Success: Saved in bootflash:/all_rum.txt.

第五步:将步骤4中的文件复制到具有Internet连接的设备。

第六步:将RUM报告(使用数据)上传到CSSM。

登录到思科软件中心>智能软件许可>报告 > 使用数据文件。

步骤6a.点击上传使用数据。

Cisco Software	Central > Smart Software	e Licensing					💼 Ir	itemalTestDemoAccoi	unt69.cisc	co.com
Smart S	oftware Licen	ising						SL Product Details	Support	Help
Alerts Inven	ntory Convert to Smart I	Licensing Repo	orts Preferences	On-Prem Accounts Activ	ity					
Reports										
Report	Usage Data Files	Reporting Policy	/ Synch File for	Device Controllers						
Devices can This usage th	be configured to report the hen determines which licen	features that they a ses are needed, in	are using. order to be compliant.			[State and an and a state			
Upload	Usage Data					Search by File Name, Vi	rtual Account		0,	
🕀 Usage	e Data File	F	Reported	Virtual Account	Reporting	Status	Devices	Acknowledgeme	nt	

第6b步。单击浏览。

Upload Usage Data

Please select the Usage File you wish to upload.



Upload Data	Cancel
-------------	--------

Upload Usage Data

Please select the Usage File you wish to upload.

* Usage Data File:



第6d步:从下拉菜单中选择接收已上传文件的虚拟帐户,然后单击Ok。

Select Virtual Accounts	\times
Some of the usage data files do not include the name of the virtual account that the data refers to, or virtual account is unrecognized.	the
Please select an account:	
▲ O Select one account for all files: Select VA ▼)
Select a virtual account per file:	-1



Upload Data

Cancel

Select Virtual Accounts

Some of the usage data files do not include the name of the virtual account that the data refers to, or the virtual account is unrecognized.

Please select an account:



Select a virtual account per file:



Select Virtual Accounts

Some of the usage data files do not include the name of the virtual account that the data refers to, or the virtual account is unrecognized.

Please select an account:

Select	one	account	for	all	files:
	00	0.0000			

Select a virtual account per file:





步骤 7.等待Reporting Status更改为No errors,然后单击Download获取ACK文件。

×

X

Cisco Software Central > Smart Software Licensing

InternalTestDemoAccount69.cisco.com

SL Product Details Support Help

SL Product Details Support Help

Smart Software Licensing

eports									
Report	Usage Data Files	Reporting Policy	Synch File	for Device Controllers					
Devices car This usage Upload	h be configured to report the then determines which lice Usage Data	ne features that they are eases are needed, in orde	using. er to be compliar	nt.		Search by File Nam	e, Virtual Account		0
🕀 Usag	e Data File	Rep	orted	Virtual Account	Reporting S	Status	Devices	Acknowledgement	
			2 101 22		Data Beir	Processed	5	Pending	

Smart Software Licensing

Alerts Inventory Convert to Smart Licensing Reports Preferences On-Prem Accounts Activity

Reports Reporting Policy Synch File for Device Controllers Usage Data Files Report Devices can be configured to report the features that they are using. This usage then determines which licenses are needed, in order to be compliant. Search by File Name, Virtual Account 0, Upload Usage Data... 🕀 Usage Data File Acknowledgement Virtual Account Reporting Status Devices Reported _ _ _ . (1) 1 No Errors all_rum.txt 2023-Jul-22 Download CML - bpaez , ----- - -

步骤 8确保Nexus存在于CSSM上。

Cisco Software Central > Smart Software Licensing			D Interna	alTestDemoAccount69.cisco.cor
Smart Software Licensing			SL	Product Details Support Hel
Alerts Inventory Convert to Smart Licensing Reports	Preferences On-Prem Acc	counts Activity		
Virtual Account: CML - bpaez				1 Major Hide Alerts
General Licenses Product Instances	Event Log			
Authorize License-Enforced Features		Search b	y Device or by Product Type	٩,
Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:N9K-C9336C-FX2; UDI_SN:FDO24400PT4;	N9300	2023-Jul-22 01:51:01		Actions -
				Showing 1 Record

步骤 9验证在<u>思科站点</u>上是否使用了预期的许可证。

登录到思科软件中心>智能软件许可>资产>许可证。

On-Prem Lie	ense Workspace			cisco			Admin Workspace	💄 Hello, Bidkar	Herson Paez Lampon	Log Ou
Smart Software Mana Smart Li	ger On-Prem > Smart Licensing Censing								CX Americas DCRS VXLA	N v4 🔻
Alerts	Inventory Convert to Sn	hart Licensing	Reports P	references	Activity					
Local Virtua Gener	Account: Default	Product Instances	SL Using Po	licy Eve	nt Log					
Available	Manage License Tags-						Sear	By N	lame By Tag	
							10 🔻 Showing	g Page 1 of 1(6 Record	ls) H ≪ ⊯ H	
Licens	LAN for Nexus 9300 10G+ Leaf XF	Billing Prepald	Available to Use	In Use 1	Substitution	Balance 0	Alerts Insufficient Lic Showing	penses	Actions - Actions -	

登录思科软件中心>智能软件许可>资产>许可证,点击列表中的预期许可证以查看详细信息。

NXOS LAN for Nexus 9300 10G+ Leaf XF In Default

LAN license for Nexus 9300-XF

Overview	Product Instances	Event Log Transacti	on History	
Product Insta	ance		Product Type	Licenses Used
UDI_PID:N9	<-C9336C-FX2;UDI_SN:F	DO2434107N;UDI_VID:;	N9300	(J_)
				Showing All 4 Records

×

Transfer License...

步骤 10将步骤7中的ACK文件上传到Nexus交换机。

步骤 11在Nexus交换机中安装ACK文件。

Nexus# license smart import bootflash:ACK_all_rum.txt Done smart import.

步骤 12验证ACK是否安装成功。



注意:使用此方法,有望在show license status输出中看到以<none>形式安装的信任代码。

Nexus# show license status Utility: Status: DISABLED Smart Licensing using Policy: Status: ENABLED Data Privacy: Sending Hostname: yes Callhome Hostname Privacy: DISABLED Smart Licensing Hostname Privacy: DISABLED Version Privacy: DISABLED Transport: Type: Off Policy: Policy in use: Merged from multiple sources

Reporting ACK required: Yes Unenforced/Non-Export: First report requirement (days): 90 (CISCO default) Ongoing reporting frequency (days): 365 (CISCO default) On change reporting (days): 90 (CISCO default) Enforced (Perpetual/Subscription): First report requirement (days): 0 (CISCO default) Ongoing reporting frequency (days): 0 (CISCO default) On change reporting (days): 0 (CISCO default) Export (Perpetual/Subscription): First report requirement (days): 0 (CISCO default) Ongoing reporting frequency (days): 0 (CISCO default) On change reporting (days): 0 (CISCO default) Miscellaneous: Custom Id: <empty> Usage reporting: Last ACK received: Jul 21 20:29:40 2023 UTC Next ACK deadline: Oct 19 20:29:40 2023 UTC Reporting push interval: 30 days Next ACK push check: <none> Next report push: Jul 21 20:02:40 2023 UTC Last report push: <none> Last report file write: <none> Trust Code installed: <none>

相关信息

- Cisco NX-OS许可选项指南
- 使用策略的Cisco Nexus 9000和3000系列NX-OS智能许可用户指南

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