

恢复XE-SDWAN上的密码

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简介

本文档介绍在XE-SDWAN上恢复口令的过程。

先决条件

要求

本文档没有任何特定的要求。

使用的组件

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。

问题

在XE-SDWAN（16.10.3版以后）中，由于安全原因，存在默认的一次性管理员密码，用户可轻易忽略该密码，并且可能进入用户锁定状态。


在未建立与vManage控制器的控制连接的情况下，这在初始路由器设置期间尤其危险；您不能简单地附加设置了用户名和密码的新模板。

本文详细介绍了如何进行恢复。

```
Username: admin  
Password:  
Router#
```

```
Sep 23 20:36:03.133: SDWAN INFO: WARNING: Please configure a new username and password; one-time user a
```

这是使用默认admin/admin凭证登录后控制台上的新消息。

 注意：此过程会清除当前配置，因此请尽可能备份配置，然后继续操作。

解决方案

这是一个设备在忽略控制台日志中的一次性密码消息时如何被锁定的示例。

```
rommon 2 > boot bootflash:asr1000-ucmk9.16.10.3a.SPA.bin
```

```
File size is 0x2f7f66c6
```

```
Located asr1000-ucmk9.16.10.3a.SPA.bin
```

```
Image size 796878534 inode num 17, bks cnt 194551 blk size 8*512
```

```
#####  
Boot image size = 796878534 (0x2f7f66c6) bytes
```

```
<<<<<<< OUTPUT TRIMMED >>>>>>>>
```

```
Press RETURN to get started!
```

```
<<<<<<< OUTPUT TRIMMED >>>>>>>>
```

```
*Sep 23 20:35:33.558: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon vdaemon @  
*Sep 23 20:35:33.635: %Cisco-SDWAN-Router-TTMD-6-INFO-1200001: R0/0: TTMD: Starting  
*Sep 23 20:35:33.725: %Cisco-SDWAN-Router-CFGMGR-6-INFO-300001: R0/0: CFGMGR: Starting  
*Sep 23 20:35:33.823: %Cisco-SDWAN-Router-FPMD-6-INFO-1100001: R0/0: FPMD: Starting  
*Sep 23 20:35:33.953: %Cisco-SDWAN-Router-FTMD-6-INFO-1000020: R0/0: FTMD: SLA class '__all_tunnels__'.  
*Sep 23 20:35:34.424: %Cisco-SDWAN-Router-FTMD-4-WARN-1000007: R0/0: FTMD: Connection to TTM came up. p  
*Sep 23 20:35:41.475: %DMI-5-INITIALIZED: R0/0: syncfd: process has initialized.  
*Sep 23 20:35:44.975: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback65528, changed state to up  
*Sep 23 20:35:44.991: %SYS-5-LOG_CONFIG_CHANGE: Buffer logging: level debugging, xml disabled, filterin  
*Sep 23 20:35:45.025: SDWAN INFO: Received ENABLE_CONSOLE message from sysmgr  
*Sep 23 20:35:45.025: Console Enabled  
*Sep 23 20:35:45.025: SDWAN INFO: PNP start, status: success  
*Sep 23 20:35:45.023: %DMI-5-ACTIVE: R0/0: nesd: process is in steady state.  
*Sep 23 20:35:45.888: EXEC mode enabled on console
```

```
User Access Verification
```

```
Username: admin
```

```
Password:
```

```
Router#
```

```
*Sep 23 20:36:03.133: SDWAN INFO: WARNING: Please configure a new username and password; one-time user
```

```
*Sep 23 20:36:03.240: %DMI-5-CONFIG_I: R0/0: nesd: Configured from NETCONF/RESTCONF by system, transact
```

```
Router#exit
```

```
Press RETURN to get started.
```

```
User Access Verification
```

```
Username: admin
```

Password:
% Login invalid

Press RETURN to get started.


User Access Verification


Username:
Login incorrect

Username:

步骤1:使用以下步骤启动流程

1. 关闭并重新启动路由器，然后强制其进入中断序列的ROMmon模式(ctrl+break， ctrl+c)。
2. 将配置寄存器更改为0xA102或0x8000。

 注：我们建议0xA102，因为它不易出现用户错误。例如，如果错误地将配置寄存器设置为0x800而不是0x8000（两个零而不是三个），则控制台波特率设置为4800而不是配置旁路。有关配置寄存器的详细信息，请参阅 <https://www.cisco.com/c/en/us/support/docs/routers/10000-series-routers/50421-config-register-use.html>

 注意：在Cisco IOS® XE软件中，无法使用0x2142配置寄存器执行配置旁路，因为Cisco IOS® XE SD-WAN软件以不同方式在闪存上的配置数据库(CDB)中存储配置。从Cisco IOS® XE SD-WAN软件16.10.1开始，位15可设置为1以绕过配置，因此配置寄存器例如0xA102。这是位15 at(0x8000)与默认寄存器0x2102的十六进制值组合的结果。

3.重置复选框（检查命令的输出）。

Initializing Hardware ...

System integrity status: 90170400 12030117

U

System Bootstrap, Version 16.3(2r), RELEASE SOFTWARE
Copyright (c) 1994-2016 by cisco Systems, Inc.

Current image running: Boot ROM1

Last reset cause: PowerOn

Warning: Octeon PCIe lanes not x2 width: sts=0x5011

ASR1001-HX platform with 16777216 Kbytes of main memory

rommon 1 > confreg 0x8000

You must reset or power cycle for new config to take effect

rommon 2 > i

Reset

Initializing Hardware ...

System integrity status: 90170400 12030117

Trixie configured

CaveCreek Link Status reg: Bus/Dev/Func: 0/28/1, offset 0x52, status = 00003011Times left ms:0000005C

Initializing DS31408...

Read MB FPGA Version: 0x16051716

DS31408 locked to local Oscillator

Taking Yoda out of reset...

Yoda VID enabled...

Crypto enabled...

Warning: Octeon PCIe link width not x2: sts=00001001
requesting link retrain

Astro enabled...

Astro PLL/bandgap init...

NP5c out of reset...

U

System Bootstrap, Version 16.3(2r), RELEASE SOFTWARE
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CPLD Version: 16033009 ASR1001-HX Slot:0

Current image running: Boot ROM1

Last reset cause: LocalSoft

Reading confreg 0x8000

Enabling interrupts

Initializing SATA controller...done

Checking for PCIe device presence...

Warning: Octeon PCIe lanes not x2 width: sts=0x5011 done

ASR1001-HX platform with 16777216 Kbytes of main memory

autoboot entry: NVRAM VALUES: bootconf: 0x0, autobootstate: 0

autobootcount: 0, autobootsptr: 0x0

第二步：从rommon启动XE-SDWAN .bin映像。

```
rommon 3 > boot bootflash:asr1000-ucmk9.16.10.3a.SPA.bin
```

Warning: filesystem is not clean

File size is 0x2f7f66c6

Located asr1000-ucmk9.16.10.3a.SPA.bin

Image size 796878534 inode num 17, bks cnt 194551 blk size 8*512

#####

File is comprised of 200 fragments (0%)

<<<<< OUTPUT TRIMMED >>>>>>>

Press RETURN to get started!

<<<<< OUTPUT TRIMMED >>>>>>>

```
*Sep 23 20:47:34.124: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon cfmgr @ p
*Sep 23 20:47:34.125: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon fpmd @ pid
*Sep 23 20:47:34.125: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon ftmd @ pid
*Sep 23 20:47:34.126: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon ompd @ pid
*Sep 23 20:47:34.127: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon ttmd @ pid
*Sep 23 20:47:34.127: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon vdaemon @
*Sep 23 20:47:34.214: %Cisco-SDWAN-Router-TTMD-6-INFO-1200001: R0/0: TTMD: Starting
*Sep 23 20:47:34.307: %Cisco-SDWAN-Router-CFGMGR-6-INFO-300001: R0/0: CFGMGR: Starting
*Sep 23 20:47:34.382: %Cisco-SDWAN-Router-FPMD-6-INFO-1100001: R0/0: FPMD: Starting
*Sep 23 20:47:34.525: %Cisco-SDWAN-Router-FTMD-6-INFO-1000020: R0/0: FTMD: SLA class '__all_tunnels__'
*Sep 23 20:47:41.143: %ONEP_BASE-6-CONNECT: [Element]: ONEP session Application:com.cisco.syncfd Host:R
*Sep 23 20:47:41.997: %DMI-5-INITIALIZED: R0/0: syncfd: process has initialized.
*Sep 23 20:47:45.480: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback65528, changed state to u
*Sep 23 20:47:45.495: %SYS-5-LOG_CONFIG_CHANGE: Buffer logging: level debugging, xml disabled, filterin
*Sep 23 20:47:45.534: SDWAN INFO: Received ENABLE_CONSOLE message from sysmgr
*Sep 23 20:47:45.534: Console Enabled
*Sep 23 20:47:45.534: SDWAN INFO: PNP start, status: success
*Sep 23 20:47:45.531: %DMI-5-ACTIVE: R0/0: nesd: process is in steady state.
*Sep 23 20:47:45.945: EXEC mode enabled on console
```

第三步：使用默认管理员凭证登录。

User Access Verification

Username: admin

Password:

Router#

*Sep 23 20:48:16.659: SDWAN INFO: WARNING: Please configure a new username and password; one-time user .

*Sep 23 20:48:16.767: %DMI-5-CONFIG_I: R0/0: nesd: Configured from NETCONF/RESTCONF by system, transact

Router#

Router#sh ver | i Configuration register

Configuration register is 0x8000

第四步：这是强制步骤。

1. 将配置寄存器改回0x2102并执行sdwan软件重置。这将清除存在的所有配置。
2. 在此步骤中，路由器将重新启动，并使用packages.conf配置文件中指定的软件进行启动。

Router#request platform software sdwan software reset

*Sep 23 20:52:17.400: %INSTALL-5-INSTALL_START_INFO: R0/0: install_engine: Started install activate boo

*Sep 23 20:52:23.919: %SYS-7-NV_BLOCK_INIT: Initialized the geometry of nvram

Router#

*Sep 23 20:52:47.943: %INSTALL-5-INSTALL_COMPLETED_INFO: R0/0: install_engine: Completed install activa

Initializing Hardware ...

System integrity status: 90170400 12030117

U

System Bootstrap, Version 16.3(2r), RELEASE SOFTWARE

Copyright (c) 1994-2016 by cisco Systems, Inc.

Current image running: Boot ROM1

Last reset cause: LocalSoft

Warning: Octeon PCIe lanes not x2 width: sts=0x5011

ASR1001-HX platform with 16777216 Kbytes of main memory

File size is 0x00001a47

Located packages.conf

Image size 6727 inode num 1120114, bks cnt 2 blk size 8*512

#

File size is 0x01e7df8e

Located asr1000-rpboot.16.10.3a.SPA.pkg

Image size 31973262 inode num 1120126, bks cnt 7806 blk size 8*512

#####

Boot image size = 31973262 (0x1e7df8e) bytes

ROM:RSA Self Test Passed

ROM:Sha512 Self Test Passed

<<<<<< OUTPUT TRIMMED >>>>>>>

```
*Sep 23 20:57:13.347: %ONEP_BASE-6-CONNECT: [Element]: ONEP session Application:com.cisco.syncfd Host:R
*Sep 23 20:57:15.226: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon cfmgr @ p
*Sep 23 20:57:15.227: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon fpmd @ pid
*Sep 23 20:57:15.228: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon ftmd @ pid
*Sep 23 20:57:15.229: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon ompd @ pid
*Sep 23 20:57:15.229: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon ttmd @ pid
*Sep 23 20:57:15.230: %Cisco-SDWAN-Router-SYSMGR-6-INFO-200017: R0/0: SYSMGR: Started daemon vdaemon @
*Sep 23 20:57:15.308: %Cisco-SDWAN-Router-TTMD-6-INFO-1200001: R0/0: TTMD: Starting
*Sep 23 20:57:15.391: %Cisco-SDWAN-Router-CFGMGR-6-INFO-300001: R0/0: CFGMGR: Starting
*Sep 23 20:57:15.484: %Cisco-SDWAN-Router-FPMD-6-INFO-1100001: R0/0: FPMD: Starting
*Sep 23 20:57:15.620: %Cisco-SDWAN-Router-FTMD-6-INFO-1000020: R0/0: FTMD: SLA class '__all_tunnels__'
*Sep 23 20:57:16.092: %Cisco-SDWAN-Router-FTMD-4-WARN-1000007: R0/0: FTMD: Connection to TTM came up. p
*Sep 23 20:57:27.380: %DMI-5-INITIALIZED: R0/0: syncfd: process has initialized.
*Sep 23 20:57:35.032: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback65528, changed state to u
*Sep 23 20:57:35.048: %SYS-5-LOG_CONFIG_CHANGE: Buffer logging: level debugging, xml disabled, filterin
*Sep 23 20:57:35.081: SDWAN INFO: Received ENABLE_CONSOLE message from sysmgr
*Sep 23 20:57:35.081: Console Enabled
*Sep 23 20:57:35.081: SDWAN INFO: PNP start, status: success
*Sep 23 20:57:35.079: %DMI-5-ACTIVE: R0/0: nesd: process is in steady state.
*Sep 23 20:57:35.682: EXEC mode enabled on console
```

第五步：现在，再次提示您输入一次性管理员凭证。执行完此步骤后，不要忘记更改默认密码。建议同时添加其他用户。如果您错过此步骤而被锁定，则需要再次重复所有步骤。

User Access Verification

Username: admin

Password:

Router#

```
*Sep 23 20:58:18.048: SDWAN INFO: WARNING: Please configure a new username and password; one-time user .
```

```
*Sep 23 20:58:18.155: %DMI-5-CONFIG_I: R0/0: nesd: Configured from NETCONF/RESTCONF by system, transact
```

Router#confi

Router#config-tr

System is still initializing. Wait for PnP to be completed or terminate PnP with the command:

pnpa service discovery stop

Router#pnpa service discovery stop

```
PNP-EXEC-DISCOVERY (1): Stopping PnP Discovery...
Waiting for PnP discovery cleanup ..
```

```
Router#
```

```
*Sep 23 20:58:48.997: %PNP-6-PNP_DISCOVERY_ABORT_ON_CLI: PnP Discovery abort on CLI input
*Sep 23 20:58:48.999: %DMI-5-SYNC_START: R0/0: syncfd: External change to running configuration detected
*Sep 23 20:58:54.955: %DMI-5-SYNC_COMPLETE: R0/0: syncfd: The running configuration has been synchronized
*Sep 23 20:58:54.955: %DMI-5-ACTIVE: R0/0: syncfd: process is in steady state.
*Sep 23 20:58:55.150: %DMI-5-CONFIG_I: R0/0: nesd: Configured from NETCONF/RESTCONF by system, transaction
*Sep 23 20:58:55.676: %Cisco-SDWAN-Router-SYSMGR-5-NTCE-200050: R0/0: SYSMGR: System status solid green
```

```
Router#
```

```
*Sep 23 20:59:00.083: %INSTALL-5-INSTALL_START_INFO: R0/0: install_engine: Started install commit PACKAGE
*Sep 23 20:59:00.327: %INSTALL-5-INSTALL_COMPLETED_INFO: R0/0: install_engine: Completed install commit PACKAGE
```

```
Router#sh ver | i register
```

```
Configuration register is 0x2102
```

```
Router#sh sdwan ver
```

```
*Sep 23 20:59:12.640: %PNP-6-PNP_DISCOVERY_ABORT_ON_CLI: PnP Discovery abort on CLI input
```

```
*Sep 23 20:59:12.640: %PNP-6-PNP_DISCOVERY_STOPPED: PnP Discovery stopped (Discovery Aborted)16.10.3a
```

```
Router#
```

```
Router#sh sdwan ver
```

```
16.10.3a
```

```
Router#
```

```
Router#conf
```

```
Router#config-tr
```

```
admin connected from 127.0.0.1 with console on Router
```

```
Router(config)# username admin privilege 15 secret <your password>
```

```
Router(config)# username sdwan privilege 15 secret <your password>
```

```
Router(config)# comm
```

```
Commit complete.
```

```
Router(config)#
```

```
*Sep 23 21:00:59.270: %DMI-5-CONFIG_I: R0/0: nesd: Configured from NETCONF/RESTCONF by admin, transaction
```

```
Router(config)# end
```

第六步：确认您仍然可以使用新创建的用户名和密码访问设备。

```
Router#exit
```

```
Router con0 is now available
```

```
Press RETURN to get started.
```

```
User Access Verification
```

```
Username: admin
```

```
Password:
```

```
Router>en
```

```
Router#
```

```
Router#exit
```

```
Router con0 is now available
```

```
Press RETURN to get started.
```

```
User Access Verification
```


Username: sdwan
Password:

Router>en
Router#

关于此翻译

思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言，希望全球的用户都能通过各自的语言得到支持性的内容。

请注意：即使是最好的机器翻译，其准确度也不及专业翻译人员的水平。

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