Recupere a senha no XE-SDWAN

Contents

Introdução

Este documento descreve o procedimento para recuperar a senha em XE-SDWAN.

Pré-requisitos

Requisitos

Não existem requisitos específicos para este documento.

Componentes Utilizados

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a rede estiver ativa, certifique-se de que você entenda o impacto potencial de qualquer comando.

Problema

No XE-SDWAN (versão 16.10.3 em diante), há uma senha de administrador ocasional padrão devido a razões de segurança que podem ser facilmente ignoradas pelo usuário e podem potencialmente entrar em uma situação de bloqueio do usuário.

Isso é especialmente perigoso durante a configuração inicial do roteador se a conexão de controle com o controlador vManage não estiver estabelecida; não é possível simplesmente anexar um novo modelo com o nome de usuário e a senha definidos.

Este artigo fornece um procedimento detalhado sobre como recuperar.

```
Username: admin
Password:
Router#

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

Esta é a nova mensagem no console após o login com as credenciais padrão de admin/admin.

> **Observação**: este procedimento apaga a configuração atual, portanto, faça um backup da configuração, se possível, antes de prosseguir.

Solução

Este é um exemplo de como um dispositivo é bloqueado, pois ignora a mensagem de senha única dos logs de console.

```
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 @ p
*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__' a
*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, filtering
*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 a
*Sep 23 20:36:03.240: %DMI-5-CONFIG_I: R0/0: nesd: Configured from NETCONF/RESTCONF by system, transacti
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:
```

Etapa 1. Inicie o processo com estas etapas

1. Desligue e ligue o roteador e force-o a entrar no modo ROMmon com sequência de interrupção (ctrl+break, ctrl+c).
2. Altere o registro de configuração para 0xA102 ou 0x8000.

Observação: recomendamos 0xA102 porque ele é menos propenso a erros do usuário. Por exemplo, se você definir o registro de configuração por engano como 0x800 em vez de 0x8000 (dois zeros em vez de três), a taxa de baud do console será definida como 4800 em vez do desvio de configuração. Para obter mais informações sobre registros de configuração, consulte https://www.cisco.com/c/en/us/support/docs/routers/10000-series-routers/50421-config-register-use.html

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Observação: No software Cisco IOS® XE, o desvio de configuração não pode ser feito com o registro de configuração 0x2142 porque o software Cisco IOS® XE SD-WAN armazena a configuração de uma maneira diferente no banco de dados de configuração (CDB) na flash. A partir do software Cisco IOS® XE SD-WAN 16.10.1, o bit 15 pode ser definido como 1 para ignorar a configuração, portanto o registro de configuração é, por exemplo, 0xA102. Este é um resultado do bit 15 at (0x8000) em combinação com o valor hexadecimal do registro padrão 0x2102.

---

3. Reinicialize a caixa (verifique a saída do comando).

```
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...

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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
```

Etapa 2. Inicialize a imagem .bin do XE-SDWAN a partir do rommon.

```
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 cfgmgr @ pi
*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 @ p
*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__' a
*Sep 23 20:47:41.143: %ONEP_BASE-6-CONNECT: [Element]: ONEP session Application:com.cisco.syncfd Host:Ro
*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 up
*Sep 23 20:47:45.495: %SYS-5-LOG_CONFIG_CHANGE: Buffer logging: level debugging, xml disabled, filtering
*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
```

Etapa 3. Faça login com as credenciais de administrador padrão.

```
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 a
*Sep 23 20:48:16.767: %DMI-5-CONFIG_I: R0/0: nesd: Configured from NETCONF/RESTCONF by system, transacti
Router#
Router#sh ver | i Configuration register
Configuration register is 0x8000
```

Etapa 4. Essa é uma etapa obrigatória.

1. Altere o registro de configuração de volta para 0x2102 e execute uma reinicialização de software sdwan. Isso apaga toda a configuração existente.
2. O roteador é reinicializado nesta etapa e inicializado com o software especificado no arquivo de configuração packages.conf.

```
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 boot
*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 activat


Initializing Hardware ...

System integrity status: 90170400 12030117

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System Bootstrap, Version 16.3(2r), RELEASE SOFTWARE
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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 cfgmgr @ pi
*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 @ p
*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__' a
*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 up
*Sep 23 20:57:35.048: %SYS-5-LOG_CONFIG_CHANGE: Buffer logging: level debugging, xml disabled, filtering
*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
```

Etapa 5. Agora, mais uma vez, você é solicitado a fornecer credenciais de administrador únicas. Após essa etapa, não se esqueça de alterar a senha padrão. É recomendável adicionar um usuário adicional também. Se você perder esta etapa e ficar bloqueado, então você precisa repetir todas as etapas novamente.

```
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 a
*Sep 23 20:58:18.155: %DMI-5-CONFIG_I: R0/0: nesd: Configured from NETCONF/RESTCONF by system, transacti
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 synchronize
*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, transacti
*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 PACKAG
*Sep 23 20:59:00.327: %INSTALL-5-INSTALL_COMPLETED_INFO: R0/0: install_engine: Completed install commit
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, transactio
Router(config)# end
```

Etapa 6. Verifique se você ainda tem acesso ao dispositivo com o nome de usuário e a senha recém-criados.

```
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#
```