

### **Password Recovery Guide**

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### **Password Recovery for the Cisco Nexus 1000V**

This document describes how to recover a lost network administrator password for the Cisco Nexus 1000V.

### **Creating a New Network Administrator Password**

This section describes how to recover a lost password. This section includes the following topics:

- Flow Chart: Password Recovery with a Single VSM, page 1-1
- Flow Chart: Password Recovery with Dual VSMs, page 1-3
- Verifying User Privileges, page 1-4
- Creating a Password When You Have Network-Admin Privileges, page 1-4
- Creating a New Password By Booting from the CD-ROM on the Active VSM, page 1-5

### Flow Chart: Password Recovery with a Single VSM

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The following flow chart (see Figure 1-1) is designed to guide you through the password recovery process for a VSM that is not in high availability mode. After completing each procedure, return to the flow chart to make sure that you complete all required procedures in the correct sequence.



Figure 1-1 Password Recovery with a Single VSM

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### Flow Chart: Password Recovery with Dual VSMs

The following flow chart (see Figure 1-2) is designed to guide you through the password recovery process for VSMs that are in high availability mode. After completing each procedure, return to the flow chart to make sure you that complete all required procedures in the correct sequence.





### **Verifying User Privileges**

You can verify that your username has network admin privileges that let you create a new password.

#### **BEFORE YOU BEGIN**

Before beginning this procedure, log in to the CLI in EXEC mode.

#### **DETAILED STEPS**

	Command	Purpose
ep 1	show user-account	Displays usernames and their roles.
	<pre>Example: n1000v# show user-account user:admin this user account has no expiry date roles:network-admin user:adminbackup this user account has no expiry date roles:network-operator user:test this user account has no expiry date roles:network-operator nlooov#</pre>	Only users with the network-admin role can change the network administrator password.

### **Creating a Password When You Have Network-Admin Privileges**

You can create a network administrator password when you have network-admin privileges.

#### **BEFORE YOU BEGIN**

Before beginning this procedure, make sure that:

- You are logged in to the CLI in EXEC mode.
- Your username has network-admin privileges. To verify your privileges, see Verifying User Privileges, page 1-4.

#### **SUMMARY STEPS**

- 1. config t
- 2. username admin password new password
- 3. exit
- 4. copy running-config startup-config

#### **DETAILED STEPS**

	Command	Purpose
Step 1	config t	Places you into CLI global configuration mode.
	Example: n1000v# config t n1000v(config)#	
Step 2	<pre>username admin password <new password=""></new></pre>	Changes the network admin password in the running
	<b>Example:</b> n1000v(config)# username admin password <new password=""></new>	configuration.
Step 3	exit	Exits global configuration mode and returns you to
	Example: n1000v(config)# exit n1000v#	EXEC mode.
Step 4	copy running-config startup-config	Saves the running configuration persistently through
	<b>Example:</b> n1000v# copy running-config startup-config	reboots and restarts by copying it to the startup configuration.

### Creating a New Password By Booting from the CD-ROM on the Active VSM

You can create a new password if you cannot start a session on the device with a username that has network-admin privileges. In this case, you must create the network administrator password by booting the Cisco Nexus 1000V from the CD-ROM.

#### **BEFORE YOU BEGIN**

Before beginning this procedure, make sure that the VM is booting from the CD-ROM. For more information, see your VMware documentation.

/1\ Caution

This procedure disrupts all traffic on the device. All connections to the device will be lost for 2 to 3 minutes.

- **Step 1** Power off the VSM.
- **Step 2** Open the VSM console and map the .iso file.
- Step 3 In the Edit Settings for the VSM window, under hardware, choose CD/DVD drive and check the connect at power on check box.
- **Step 4** Under the **Options** tab, choose **Boot Options** and check the **Force BIOS Setup** check box.
- **Step 5** Power on the VM and change the boot order to boot from the CD-ROM. Press F10 to save and exit.
- Step 6 Choose Install Nexus 1000V and go to vsh shell.

Install Nexus 1000V and bring up the new image Install Nexus 1000V and go to vsh shell Install Nexus 1000V only if the disk is unformatted and bring up new image Install Nexus 1000V only if the disk is unformatted and go to vsh shell Use the  $\wedge$  and  $\downarrow$  keys to select which entry is highlighted. Press enter to boot the selected OS, 'e' to edit the commands before booting, or 'c' for a command line. Cisco Nexus Operations System (NX-OS) Software TAC Support: http://www.cisco.com/tac Copyright (c) 2002-2015, Cisco Systems, Inc. All rights reserved. The copyrights to certain work contained in this software are owned by other third parties and used and distributed under license. Certain components of this software are licensed under the GNU General Public License (GPL) version 2.0 or the GNU Lesser General Public License (LGPL) version 2.1. A copy of each such license is available at http://www.opensource.org/license/gpl-2.0.php and http://www.opensource.org/license/lgpl-2.1.php

switch (boot)#



It might take up to 5 minutes for the VM to power on.

**Step 7** Create a new password:

switch(boot)# config terminal
switch(boot-config)# admin-password new\_password
switch(boot-config)# exit

#### **Step 8** Load the mz image.

In the following example, the image filename is *nexus-1000v-mz.4.0.4.SV1.1.bin*:

switch(boot)# load bootflash:nexus-1000v-mz.4.0.4.SV1.1.bin
load\_isanimg: entry
load\_isanimg: uri\_info:0x80c8460
load\_isanimg: type:0x8
Uncompressing system image: bootflash:/nexus-1000v-mz.4.0.4.SV1.1.bin

Load plugins that defined in image conf: /isan/plugin\_img/img.conf Loading plugin 0: core\_plugin...

User Access verification switch login:

**Step 9** Use the new administrator password to log in to the VSM CLI:

User Access Verification n1000v login: **admin** Password:

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**Step 10** Save the running configuration to the startup configuration so that the new password persists across reboots and restarts:

**Step 11** Using your VMware documentation, restore the VM boot settings so that it boots from the hard disk.

You have completed this procedure and restored the admin user password. If needed, you can create a new password. See Creating a Password When You Have Network-Admin Privileges, page 1-4.





## Password Recovery for the Cisco Virtual Security Gateway

This document describes how to recover a lost network administrator password for the Cisco VSG.

### **Creating a New Network Administrator Password**

This section describes how to recover a lost password. This section includes the following topics:

- Flow Chart: Password Recovery with a Single Cisco VSG, page 2-1
- Flow Chart: Password Recovery with Dual Cisco VSGs, page 2-3
- Verifying User Privileges, page 2-4
- Creating a Password When You Have Network-Admin Privileges, page 2-4
- Creating a New Password By Booting from the CD-ROM on the Active Cisco VSG, page 2-5

### Flow Chart: Password Recovery with a Single Cisco VSG

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The following flow chart (see Figure 2-1) is designed to guide you through the password recovery process for a Cisco VSG that is not in high availability mode. After completing each procedure, return to the flow chart to make sure that you complete all required procedures in the correct sequence.



Figure 2-1 Password Recovery with a Single Cisco VSG

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### Flow Chart: Password Recovery with Dual Cisco VSGs

The following flow chart (see Figure 2-2) is designed to guide you through the password recovery process for Cisco VSGs that are in high availability mode. After completing each procedure, return to the flow chart to make sure you that complete all required procedures in the correct sequence.

Figure 2-2 Password Recovery with Dual Cisco VSGs



### **Verifying User Privileges**

You can verify that your username has network admin privileges that let you create a new password.

#### **BEFORE YOU BEGIN**

Before beginning this procedure, log in to the CLI in EXEC mode.

#### **DETAILED STEPS**

	Command	Purpose
Step 1	show user-account	Displays usernames and their roles.
	<pre>Example: vsg# show user-account user:admin this user account has no expiry date roles:network-admin user:adminbackup this user account has no expiry date roles:network-operator user:test this user account has no expiry date roles:network-operator vsg#</pre>	Only users with the network-admin role can change the network administrator password.

### **Creating a Password When You Have Network-Admin Privileges**

You can create a network administrator password when you have network-admin privileges.

#### **BEFORE YOU BEGIN**

Before beginning this procedure, make sure that:

- You are logged in to the CLI in EXEC mode.
- Your username has network-admin privileges. To verify your privileges, see Verifying User Privileges, page 2-4.

#### **SUMMARY STEPS**

- 1. config t
- 2. username admin password new password
- 3. exit
- 4. copy running-config startup-config

#### **DETAILED STEPS**

	Command	Purpose
Step 1	config t	Places you into CLI global configuration mode.
	<b>Example:</b> vsg# config t vsg(config)#	
Step 2	username admin password <new password=""></new>	Changes the network admin password in the running
	<b>Example:</b> vsg(config)# username admin password <new password=""></new>	configuration.
Step 3	exit	Exits global configuration mode and returns you to
	<b>Example:</b> vsg(config)# exit vsg#	LALC mode.
Step 4	copy running-config startup-config	Saves the running configuration persistently through
	<b>Example:</b> vsg# copy running-config startup-config	configuration.

# Creating a New Password By Booting from the CD-ROM on the Active Cisco VSG

You can create a new password if you cannot start a session on the device with a username that has network-admin privileges. In this case, you must create the network administrator password by booting the Cisco Virtual Security Gateway from the CD-ROM.

#### **BEFORE YOU BEGIN**

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Before beginning this procedure, make sure that the VM is booting from the CD-ROM. For more information, see your VMware documentation.

This procedure disrupts all traffic on the device. All connections to the device will be lost for 2 to minutes.	
Power off the Cisco VSG.	
Open the Cisco VSG console and map the .iso file.	
In the Edit Settings for the VSG window, under hardware, choose CD/DVD drive and check th connect at power on check box.	
Under the <b>Options</b> tab, choose <b>Boot Options</b> and check the <b>Force BIOS Setup</b> check box.	
Power on the VM and change the boot order to boot from the CD-ROM. Press F10 to save and ex	
Choose Install Cisco VSC and go to vsh shell	

Install Cisco VSG and bring up the new image Install Cisco VSG and go to vsh shell Install Cisco VSG only if the disk is unformatted and bring up new image Install Cisco VSG only if the disk is unformatted and go to vsh shell Use the  $\uparrow$  and  $\downarrow$  keys to select which entry is highlighted. Press enter to boot the selected OS, 'e' to edit the commands before booting, or 'c' for a command line. Cisco Nexus Operations System (NX-OS) Software TAC Support: http://www.cisco.com/tac Copyright (c) 2002-2015, Cisco Systems, Inc. All rights reserved. The copyrights to certain work contained in this software are owned by other third parties and used and distributed under license. Certain components of this software are licensed under the GNU General Public License (GPL) version 2.0 or the GNU Lesser General Public License (LGPL) version 2.1. A copy of each such license is available at http://www.opensource.org/license/gpl-2.0.php and http://www.opensource.org/license/lgpl-2.1.php

switch (boot)#



It might take up to 5 minutes for the VM to power on.

#### **Step 7** Create a new password:

switch(boot)# config terminal
switch(boot-config)# admin-password new\_password
switch(boot-config)# exit

#### **Step 8** Load the Cisco VSG image.

In the following example, the image filename is *nexus-1000v.5.2.1.VSG2.1.2c.bin*:

switch(boot)# load bootflash:nexus-1000v.5.2.1.VSG2.1.2c.bin
Uncompressing system image: bootflash:/nexus-1000v.5.2.1.VSG2.1.2c.bin

Load plugins that defined in image conf: /isan/plugin\_img/img.conf Loading plugin 0: core\_plugin...

User Access verification switch login:

#### **Step 9** Use the new administrator password to log in to the Cisco VSG CLI:

User Access Verification vsg login: admin Password: Cisco Nexus Operating System (NX-OS) Software Copyright (c) 2002-2015, Cisco Systems, Inc. All rights reserved. TAC support: http://www.cisco.com/tac Copyrights to certain works contained in this software are owned by other third parties and used and distributed under license. Certain components of this software are licensed under the GNU General Public License (GPL) version 2.0 or the GNU Lesser General Public License (LGPL) Version 2.1. A copy of each such license is available at http://www.opensource.org/licenses/gpl-2.0.php and http://www.opensource.org/licenses/lgpl-2.1.php vsg#

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**Step 10** Save the running configuration to the startup configuration so that the new password persists across reboots and restarts:

**Step 11** Using your VMware documentation, restore the VM boot settings so that it boots from the hard disk.

You have completed this procedure and restored the admin user password. If needed, you can create a new password. See Creating a Password When You Have Network-Admin Privileges, page 2-4.



### Password Recovery for the Cisco Nexus Cloud Services Platform

This document describes how to recover a lost network administrator password.

### **Creating a New Network Administrator Password**

This section describes how to recover a lost password. This section includes the following topics:

- Booting into Run Level 1, page 3-1
- Creating a Password for the Admin User in the Cloud Services Platform, page 3-2

### **Booting into Run Level 1**

#### **DETAILED STEPS**

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Step 1	Log in to the serial console using the CIMC IP address with the admin account and passwo	
	ssh admin@x.x.x.x	
Step 2	After logging in, enter the <b>connect host</b> command: #connect host	
Step 3	Reload the system or power cycle the system from the CIMC console. The system brings up the nexus-1010-kickstart binary.	
Step 4	Figure 3-1 displays the following message.	

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After several seconds, the message "Loading system software" displays. After the message is displayed, use the key combination **Ctrl +** ].

Step 5 An INIT run-level switch begins. You should see the message "INIT: Switching to runlevel:1." Wait for several seconds until the system stabilizes at the switch(boot)# prompt:

switch(boot)#

**Step 6** Enter the **admin-password** command to set the new password to the user *admin*:

```
admin-password
Example:
switch(boot) # configure terminal
switch(boot) (config) # admin-password <enter_new_password_here>
switch(boot) (config) # end
switch(boot) # dir bootflash:
switch(boot) # load <system image file>
```

### Creating a Password for the Admin User in the Cloud Services Platform

You can create a network administrator password when you have network-admin privileges.

#### **BEFORE YOU BEGIN**

Before beginning this procedure, make sure that:

• Only one Cisco Nexus 1010 is up inside a high availability pair, and change the password on that device.

- You are logged in to the **switch(boot)#** in EXEC mode.
- Your username has network-admin privileges.

#### **SUMMARY STEPS**

- 1. configure terminal
- 2. admin-password 'enter\_new\_ password\_here'
- 3. end
- 4. Load the system image
  - a. dir bootflash:
  - b. load 'system image'

### **DETAILED STEPS**

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	Command	Purpose
Step 1	config t	Places you into CLI global configuration mode.
	<pre>Example: switch(boot)# config t switch(boot)(config)#</pre>	
Step 2	<pre>admin-password <new_password> Example: switch(boot)(config)# admin-password new_password</new_password></pre>	Changes the network admin password in the running configuration.
Step 3	<pre>exit Example: switch(boot)(config)# end switch(boot)#</pre>	Exits global configuration mode and returns you to EXEC mode.
Step 4	<pre>copy running-config startup-config Example: switch(boot)# switch(boot)# dir bootflash: switch(boot)#load bootflash:system_image</pre>	Saves the running configuration persistently through reboots and restarts by copying it to the startup configuration.