



CHAPTER 2

Managing VNMC

This chapter provides procedures for managing Virtual Network Management Center (VNMC).

This chapter includes the following sections:

- [Rebooting VNMC, page 2-1](#)
- [Updating the System, page 2-2](#)
- [Setting the Host Name, page 2-3](#)
- [Restoring VNMC, page 2-4](#)
- [Working With Services, page 2-5](#)
- [Managing Files and Applications, page 2-10](#)
- [Managing Security, page 2-14](#)
- [Setting Terminal Session Parameters, page 2-18](#)
- [Displaying System Information, page 2-20](#)

Rebooting VNMC

You can reboot VNMC.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Local management

SUMMARY STEPS

1. `connect local-mgmt`
2. `reboot`

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DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnmc# connect local-mgmt	Places you in the local management CLI.
Step 2	reboot Example: vnmc(local-mgmt)# reboot	Reboots VNMC.

EXAMPLES

This example shows how to reboot VNMC:

```
vnmc# connect local-mgmt
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such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vnmc(local-mgmt)# reboot
The VM will be rebooted. Are you sure? (yes/no): yes
Rebooting...
Broadcast message from root (pts/0) (Thu Sep 30 01:52:25 2010):
The system is going down for reboot NOW!
vnmc(local-mgmt)#
```

Updating the System

You can update the system.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Local management

SUMMARY STEPS

1. **connect local-mgmt**
2. **update {bootflash: | ftp: | scp: | sftp: | tftp: | volatile:} <uri>**

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DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnmc# connect local-mgmt	Places you in the local management CLI.
Step 2	update Example: vnmc(local-mgmt) # update bootflash:/VNMC.1.0.0.511.bin	Updates the system.

EXAMPLES

This example shows how to update the system:

```
vnmc# connect local-mgmt
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such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php

vnmc(local-mgmt) # update bootflash:/VNMC.1.0.0.511.bin
```



Note

The file VNMC.1.0.0.511.bin, used in the preceding example, is the released .bin file.

Setting the Host Name

You can set the host name.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

Changing the host name will cause new certificate generation designed to warn the user of the impact of the change. The VM Manager Extension file would have to be exported again and installed on vCenter. Any web browser client that had the certificate installed will get a prompt for a new certificate.

CLI

Management controller

SUMMARY STEPS

1. **scope system**

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2. set hostname

DETAILED STEPS

	Command	Purpose
Step 1	scope system Example: vnmc# scope system	Places you in system mode.
Step 2	set hostname Example: vnmc /system # set hostname testHost	Sets the host name.
Step 3	commit-buffer Example: vnmc /system* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the host name:

```
vnmc# scope system
vnmc /system # set hostname testHost
vnmc /system* # commit-buffer
vnmc /system #
```

Restoring VNMC

You can restore VNMC.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Local management

SUMMARY STEPS

1. **connect local-mgmt**
2. **restore {ftp: | scp: | sftp: | tftp:} <uri-remote-file>**

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DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnm# connect local-mgmt	Places you in the local management CLI.
Step 2	restore Example: vnm(local-mgmt)# restore scp://jsmith@171.71.171.100/ws/jsmith-sjc/483fullstatesftp	Restores VNMC.

EXAMPLES

This example shows how to restore VNMC:

```
vnm# connect local-mgmt
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such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vnm(local-mgmt)# restore scp://jsmith@171.71.171.100/ws/jsmith-sjc/483fullstatesftp
Enter password:
Stopping services
Extracting files
Configuring network
NOTE - the IP address you're restoring from differs from your current IP, you might lose
network connectivity
vnm(local-mgmt)#
```

Working With Services

You can reinitialize your database, and start and stop services.

This section includes the following topics:

- [Reinitializing the Database, page 2-6](#)
- [Restarting Services, page 2-6](#)
- [Starting Services, page 2-7](#)
- [Displaying the Status of Services, page 2-8](#)
- [Stopping Services, page 2-9](#)

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Reinitializing the Database

You can reinitialize your database.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Local management

SUMMARY STEPS

1. **connect local-mgmt**
2. **service reinit**

DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnm# connect local-mgmt	Places you in the local management CLI.
Step 2	service reinit Example: vnm(local-mgmt)# service reinit	Reinitializes the database.

EXAMPLES

This example shows how to reinitialize a database:

```
vnm# connect local-mgmt
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such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vnm(local-mgmt)# service reinit
The VNMC databases will be reinitialized. Are you sure? (yes/no): yes
Shutting down pmon: [ OK ]
Starting pmon: [ OK ]
vnm(local-mgmt)#
```

Restarting Services

You can restart services.

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BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Local management

SUMMARY STEPS

1. **connect local-mgmt**
2. **service restart**

DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnmc# connect local-mgmt	Places you in the local management CLI.
Step 2	service restart Example: vnmc(local-mgmt)# service restart	Restarts services.

EXAMPLES

This example shows how to restart services:

```

vnmc# connect local-mgmt
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such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vnmc(local-mgmt)# service restart
Shutting down pmon:                               [ OK ]
Starting pmon:                                     [ OK ]
vnmc(local-mgmt)#

```

Starting Services

You can start services.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

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Local management

SUMMARY STEPS

1. **connect local-mgmt**
2. **service start**

DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnmc# connect local-mgmt	Places you in the local management CLI.
Step 2	service start Example: vnmc(local-mgmt)# service start	Starts services.

EXAMPLES

This example shows how to start services:

```

vnmc# connect local-mgmt
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such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vnmc(local-mgmt)# service start
Starting pmon: [ OK ]
vnmc(local-mgmt)#

```

Displaying the Status of Services

You can display the status of services.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Local management

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SUMMARY STEPS

1. connect local-mgmt
2. service status

DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnmc# connect local-mgmt	Places you in the local management CLI.
Step 2	service status Example: vnmc(local-mgmt)# service status	Shows the status of all your services.

EXAMPLES

```

vnmc# connect local-mgmt
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such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vnmc(local-mgmt)# service status

```

```

SERVICE NAME                STATE      RETRY (MAX)  CORE
-----
pmon                          running    N/A          N/A
core-svc_cor_dme              running    0(4)         no
service-reg-svc_reg_dme      running    0(4)         no
core-svc_cor_secAG            running    0(4)         no
resource-mgr-svc_res_dme     running    0(4)         no
policy-mgr-svc_pol_dme       running    0(4)         no
sam_cores_mon.sh              running    0(4)         no
vm-mgr-svc_vmm_dme            running    0(4)         no
core-svc_cor_controllerAG     running    0(4)         no
vm-mgr-svc_vmm_vmAG           running    0(4)         no
core-httpd.sh                 running    0(4)         no
core-svc_cor_sessionmgrAG     running    0(4)         no
vnmc(local-mgmt)#

```

Stopping Services

You can stop services.

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BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Local management

SUMMARY STEPS

1. **connect local-mgmt**
2. **service stop**

DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnmc# connect local-mgmt	Places you in the local management CLI.
Step 2	service stop Example: vnmc(local-mgmt)# service stop	Stops your services.

EXAMPLES

This example shows how to stop services:

```

vnmc# connect local-mgmt
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such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vnmc(local-mgmt)# service stop
Shutting down pmon: [ OK ]
vnmc(local-mgmt)#

```

Managing Files and Applications

This section includes the following topics:

- [Copying a File, page 2-11](#)
- [Deleting a File, page 2-12](#)
- [Managing the Bootflash and Volatile Directories, page 2-12](#)

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Copying a File

You can copy files.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Local management

SUMMARY STEPS

1. **connect local-mgmt**
2. **copy {bootflash: | ftp: | scp: | stfp: | tftp: | volatile:} <uri-source-file> {bootflash: | ftp: | scp: | stfp: | tftp: | volatile:} <uri-destination-file>**

DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnmc# connect local-mgmt	Places you in the local management CLI.
Step 2	copy Example: vnmc(local-mgmt)# copy scp://jsmith@171.71.171.100/ws/jsmith-sjc/VNMC-dplug.bin bootflash:/	Copies the file.

EXAMPLES

This example shows how to copy a file:

```
vnmc# connect local-mgmt
Cisco Virtual Network Management Center
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such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vnmc(local-mgmt)# copy scp://jsmith@171.71.171.100/ws/jsmith-sjc/VNMC-dplug.bin
bootflash:/

Password:
vnmc(local-mgmt)#
```

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Deleting a File

You can delete files.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Local management

SUMMARY STEPS

1. **connect local-mgmt**
2. **delete {bootflash: | volatile:} <uri-file>**

DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnm# connect local-mgmt	Places you in the local management CLI.
Step 2	delete Example: vnm(local-mgmt)# delete bootflash:/VNMC-dplug.bin	Deletes the file.

EXAMPLES

This example shows how to delete a file:

```
vnm# connect local-mgmt
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such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vnm(local-mgmt)# delete bootflash:/VNMC-dplug.bin
Delete bootflash:///VNMC-dplug.bin? (yes/no): yes
Deleted
vnm(local-mgmt)#
```

Managing the Bootflash and Volatile Directories

You can manage the bootflash and volatile directories.

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BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands](#), page 1-5 for basic information about the VNMC CLI.

CLI

Local management

SUMMARY STEPS

1. **connect local-mgmt**
2. **dir {bootflash: | volatile:}**

DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnmc# connect local-mgmt	Places you in the local management CLI.
Step 2	dir Example: vnmc(local-mgmt)# dir bootflash:	.

EXAMPLES

This example shows how to monitor the bootflash directory:

```

vnmc# connect local-mgmt
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such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vnmc(local-mgmt)# dir bootflash:

    23M Oct 19 15:06 core-1.0.0-419.i386.rpm
    11M Oct 19 15:06 core-gui-1.0.0-419.i386.rpm
    19M Oct 19 15:06 identifier-mgr-1.0.0-419.i386.rpm
  1.9M Oct 19 15:06 identifier-mgr-gui-1.0.0-419.i386.rpm
    20M Oct 19 15:06 policy-mgr-1.0.0-419.i386.rpm
  4.3M Oct 19 15:06 policy-mgr-gui-1.0.0-419.i386.rpm
    20M Oct 19 15:06 resource-mgr-1.0.0-419.i386.rpm
  3.8M Oct 19 15:06 resource-mgr-gui-1.0.0-419.i386.rpm
    20M Oct 19 15:06 service-reg-1.0.0-419.i386.rpm
  1.6M Oct 19 15:06 service-reg-gui-1.0.0-419.i386.rpm
    19M Oct 19 15:06 ucsSim-1.0.0-419.i386.rpm
  1.6M Oct 19 15:06 ucsSim-gui-1.0.0-419.i386.rpm
    20M Oct 19 15:06 vm-mgr-1.0.0-419.i386.rpm
    21M Oct 19 15:06 vsmPA-1.0.0-419.i386.rpm

```

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```

2.1M Oct 19 15:06 vsmPA-gui-1.0.0-419.i386.rpm
21M Oct 19 15:06 vsnPA-1.0.0-419.i386.rpm
2.1M Oct 19 15:06 vsnPA-gui-1.0.0-419.i386.rpm
Usage for bootflash://
18187836 bytes used
      2020580 bytes free
      20208416 bytes total
vnmc(local-mgmt)#

```

Managing Security

This section includes the following topics:

- [Modifying the Shared Secret Password, page 2-14](#)

Modifying the Shared Secret Password

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Local management

SUMMARY STEPS

1. **connect local-mgmt**
2. **modify shared-secret**

DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnmc# connect local-mgmt	Places you in the local management CLI.
Step 2	modify shared-secret Example: vnmc(local-mgmt)# modify shared-secret	Changes the shared secret password. The password must be a minimum of 8 characters.

EXAMPLES

This example shows how to modify the shared secret password:

```

vnmc# connect local-mgmt
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```
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such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
vnmc(local-mgmt)# modify shared-secret
  Enter the Shared Secret :
  Confirm Shared Secret :
vnmc(local-mgmt)#
```

Managing the Network Interface

This section provides procedures for managing the virtual machine network interface.

This section includes the following sections:

- [Setting the IP Address, page 2-15](#)
- [Setting the Gateway Address, page 2-16](#)
- [Setting the Netmask, page 2-17](#)
- [This example shows how to display the interface ID, IP address, gateway, and netmask in list form, page 2-23](#)

Setting the IP Address

BEFORE YOU BEGIN



Caution

Once committed, this change may disconnect the current CLI session.

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope network-interface mgmt**
2. **set net ip <ip-address>**
3. **commit-buffer**

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DETAILED STEPS

	Command	Purpose
Step 1	scope network-interface mgmt Example: vnmc# scope network-interface mgmt	Places you in network-interface mode.
Step 2	set net ip Example: vnmc /network-interface # set net ip 209.165.200.230	Sets the IP address. The format of the argument is A.B.C.D.
Step 3	commit-buffer Example: vnmc /network-interface* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the IP address to 209.165.200.230:

```
vnmc# scope network-interface mgmt
vnmc /network-interface # set net ip 209.165.200.230
Warning: When committed, this change may disconnect the current CLI session.
vnmc /network-interface* # commit-buffer
vnmc /network-interface#
```

Setting the Gateway Address

BEFORE YOU BEGIN



Caution

You should be clear on what you are doing when resetting this property. Once it is reset, traffic in your network will be reset.

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope network-interface mgmt**
2. **set net gw <gateway-address>**
3. **commit-buffer**

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DETAILED STEPS

	Command	Purpose
Step 1	scope network-interface mgmt Example: vnmc# scope network-interface	Places you in network-interface mode.
Step 2	set net gw Example: vnmc /network-interface # set net gw 209.165.200.225	Sets the gateway address. The format of the argument is A.B.C.D.
Step 3	commit-buffer Example: vnmc /network-interface* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the gateway address to 209.165.200.225:

```
vnmc# scope network-interface mgmt
vnmc /network-interface # set net gw 209.165.200.225
Warning: When committed, this change may disconnect the current CLI session.
vnmc /network-interface* # commit-buffer
vnmc /network-interface #
```

Setting the Netmask

BEFORE YOU BEGIN



Caution

Once committed, this change may disconnect the current CLI session.

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **scope network-interface mgmt**
2. **set net netmask <netmask>**
3. **commit-buffer**

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DETAILED STEPS

	Command	Purpose
Step 1	scope network-interface mgmt Example: vnmc# scope network-interface	Places you in network-interface mode.
Step 2	set net netmask Example: vnmc /network-interface # set net netmask 255.255.255.254	Sets the netmask. The format of the argument is A.B.C.D.
Step 3	commit-buffer Example: vnmc /network-interface* # commit-buffer	Commits (saves) the configuration.

EXAMPLES

This example shows how to set the netmask to 255.255.255.0:

```
vnmc# scope network-interface mgmt
vnmc /network-interface # set net netmask 255.255.255.0
Warning: When committed, this change may disconnect the current CLI session.
vnmc /network-interface* # commit-buffer
vnmc /network-interface#
```

Setting Terminal Session Parameters

You can terminal session parameters.

This section includes the following topics:

- [Setting the Terminal Length, page 2-18](#)
- [Setting the Session Timeout, page 2-19](#)
- [Setting the Terminal Width, page 2-20](#)

Setting the Terminal Length

You can set the number of rows of characters that display on your computer screen when you are executing a **show** command.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

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SUMMARY STEPS

1. terminal length

DETAILED STEPS

	Command	Purpose
Step 1	terminal length Example: vnmc# terminal length 46	Sets the number of rows that display. The range of valid values is 0 to 511.

EXAMPLES

This example shows how to set the number of rows that display to 46:

```
vnmc# terminal length 46
vnmc#
```

Setting the Session Timeout

You can set the terminal session timeout.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. terminal session-timeout

DETAILED STEPS

	Command	Purpose
Step 1	terminal session-timeout Example: vnmc# terminal session-timeout 100	Sets the terminal session timeout. The range of valid values is 0 to 525600.

EXAMPLES

This example shows how to set the terminal session timeout to 100 minutes:

```
vnmc# terminal session-timeout 100
vnmc#
```

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Setting the Terminal Width

You can set the number of columns of characters that display on your computer screen when you are executing a `show` command.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. `terminal width`

DETAILED STEPS

	Command	Purpose
Step 1	<code>terminal width</code> Example: <code>vnmc# terminal width 46</code>	Sets the number of columns that display. The range of valid values is 24 to 511.

EXAMPLES

This example shows how to set the number of columns that display to 46:

```
vnmc# terminal width 46
vnmc#
```

Displaying System Information

You can display system information.

This section includes the following topics:

- [Displaying Providers, page 2-21](#)
- [Displaying CLI Information, page 2-22](#)
- [Displaying the Clock, page 2-22](#)
- [Displaying the Network Interface, page 2-23](#)
- [Displaying System Information, page 2-24](#)
- [Displaying Version Numbers, page 2-24](#)
- [Displaying Technical Support Information, page 2-26](#)
- [Displaying FSMs, page 2-27](#)

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Displaying Providers

You can display VNMC providers.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Service registry

SUMMARY STEPS

1. **connect service-reg**
2. **show providers**

DETAILED STEPS

	Command	Purpose
Step 1	connect service-reg Example: vnmc# connect service-reg	Places you in the service registry CLI.
Step 2	show providers Example: vnmc(policy-mgr)# show providers	Displays providers.

EXAMPLES

This example shows how to display providers:

```
vnmc# connect service-reg
vnmc(service-reg) # show providers

Registered Providers:
  ID: 1001
  Registered Provider IP: 209.165.200.230
  Registered Provider Name: vnmc
  Registered Provider Type: Policy Mgr

  ID: 1002
  Registered Provider IP: 209.165.200.230
  Registered Provider Name: vnmc
  Registered Provider Type: Resource Mgr

  ID: 1004
  Registered Provider IP: 209.165.200.230
  Registered Provider Name: vnmc
  Registered Provider Type: Vm Mgr
```

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Displaying CLI Information

You can display information about the VNMC CLI.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. `show cli [command-status | history | mode-info | shell-type]`

DETAILED STEPS

	Command	Purpose
Step 1	<code>show cli</code> Example: vnmc# show cli	Displays CLI information.

EXAMPLES

This example shows how to display CLI mode information:

```
vnmc# show cli mode-info
Mode: /
Mode Data:
vnmc#
```

Displaying the Clock

You can display the system clock.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

Local management

SUMMARY STEPS

1. `show clock`

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DETAILED STEPS

	Command	Purpose
Step 1	show clock Example: vnmc# show clock	Displays the clock.

EXAMPLES

This example shows how to display the clock:

```
vnmc# show clock
Thu Nov 18 00:58:07 UTC 2010
vnmc#
```

Displaying the Network Interface

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. **show network-interface [detail | fsm | mgmt]**

DETAILED STEPS

	Command	Purpose
Step 1	show network-interface Example: vnmc# show network-interface mgmt	Displays the network interface.

EXAMPLES

This example shows how to display the interface ID, IP address, gateway, and netmask in table form:

```
vnmc# show network-interface mgmt

VM IP interface:
  ID   OOB IP Addr   OOB Gateway   OOB Netmask
-----
Mgmt  10.193.33.218  10.193.33.1   255.255.255.0
vnmc#
```

This example shows how to display the interface ID, IP address, gateway, and netmask in list form:

```
vnmc# show network-interface detail
```

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```
VM IP interface:
  ID: Mgmt
  OOB IP Addr: 10.193.33.218
  OOB Gateway: 10.193.33.1
  OOB Netmask: 255.255.255.0
  Current Task:
vnmc#
```

Displaying System Information

You can display system information.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Management controller

SUMMARY STEPS

1. `show system [detail | fsm]`

DETAILED STEPS

	Command	Purpose
Step 1	<code>show system</code> Example: vnmc# <code>show system</code>	Displays system information.

EXAMPLES

This example shows how to display detailed information about the system:

```
vnmc# show system detail

Systems:
  Hostname: vnmc
  Address: 10.193.33.218
  Current Task:
vnmc#
```

Displaying Version Numbers

You can display application version numbers.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

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CLI

Management controller

Local management

SUMMARY STEPS

1. (Optional) **connect local-mgmt**
2. **show version**



Note

Step 1 is optional. You can also perform this show command in the local management CLI.

DETAILED STEPS (local-mgmt)

	Command	Purpose
Step 1	connect local-mgmt Example: vnmc# local-mgmt	Places you in the local management CLI.
Step 2	show version Example: vnmc# show version	Displays the version number.

DETAILED STEPS (#)

	Command	Purpose
Step 3	show version Example: vnmc# show version	Displays the version number.

EXAMPLES

This example shows how to display version numbers in the management controller CLI:

```
vnmc# show version
```

```
Name                Package                Version                GUI
----                -
core                 Base System            1.0(0.504)            1.0(0.504)
service-reg          Service Registry       1.0(0.504)            1.0(0.504)
policy-mgr           Policy Manager         1.0(0.504)            1.0(0.504)
resource-mgr         Resource Manager       1.0(0.504)            1.0(0.504)
vm-mgr               VM manager             1.0(0.504)            none
vnmc#
```

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Displaying Technical Support Information

You can display technical support information.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Local management

SUMMARY STEPS

1. **connect local-mgmt**
2. **show tech-support**

DETAILED STEPS

	Command	Purpose
Step 1	connect local-mgmt Example: vnmc# connect local-mgmt	Places you in the local management CLI.
Step 1	show tech-support Example: vnmc# show tech-support	Displays technical support information.

EXAMPLES

This example shows how to display technical support information:

```

vnmc# connect local-mgmt
Cisco Virtual Network Management Center
TAC support: http://www.cisco.com/tac
Copyright (c) 2002-2010, Cisco Systems, Inc. All rights reserved.
The 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

vnmc(local-mgmt)# show tech-support
Initiating tech-support information on VNMC-Tech-Docs.Cisco.com
All tech-support tasks are completed.
The detailed tech-support information is located at volatile:///20101130121144-V
NMC-Tech-Docs.Cisco.com-techsupport.tgz
vnmc(local-mgmt)#

```

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Displaying FSMs

You can display FSMs. FSMs are Finite State Machines. FSMs are used to track the progress and status of configuration or inventory tasks.

BEFORE YOU BEGIN

See [VNMC CLIs Basic Commands, page 1-5](#) for basic information about the VNMC CLI.

CLI

Local management

SUMMARY STEPS

1. `scope system`
2. `show fsm [status | task]`

DETAILED STEPS

	Command	Purpose
Step 1	<code>scope system</code> Example: vnm# scope system	Places you in system mode.
Step 1	<code>show fsm</code> Example: vnm /system # show fsm status	Displays the FSM.

EXAMPLES

This example shows how to display the status of an FSM:

```
vnm# scope system
vnm /system # show fsm status

    FSM 1:
    Remote Result: Not Applicable
    Remote Error Code: None
    Remote Error Description:
    Status: 0
    Previous Status: 0
    Timestamp: Never
    Try: 0
    Progress (%): 100
    Current Task:
vnm /system #
```

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