

HP VSR1000_HP-CMW710-E0101P01-X64 Release Notes

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This document describes the features, restrictions and guidelines, open problems, and workarounds for version *VSR1000_HP-CMW710-E0101P01-X64*. Before you use this version in a live network, back up the configuration and test the version to avoid software upgrade affecting your live network.

Use this document in conjunction with *HP VSR1000_HP-CMW710-E0101P01-X64 Release Notes (Software Feature Changes)* and the documents listed in "[Related documentation](#)"

Version information

Version number

HP Comware Software, Version 7.1.047, ESS 0101P01

Version history

Table 1 Version history

Version number	Last version	Release date	Release type	Remarks
VSR1000_HP-CMW710-E0101P01-X64	First release	2013-09-17	ESS version	None

Software operating environments

Table 2 Software operating environments

Hypervisor(s)	Virtual Machine requirements		
VMware/KVM	VSR1001	VSR1004	VSR1008
	1 vCPU (2.0 GHz or higher)	4 vCPUs (2.0 GHz or higher)	8 vCPUs (2.0 GHz or higher)
	1 GB RAM or more	2 GB RAM or more	4 GB RAM or more
	Disk Space: 8GB		
Network Interfaces: 2 or more virtual Network Interface Cards (vNICs)			

Table 3 Software Licenses

J#	Description
JG811AAE	HP VSR1001 Virtual Services Router E-LTU
JG812AAE	HP VSR1004 Virtual Services Router E-LTU
JG813AAE	HP VSR1008 Virtual Services Router E-LTU

Hardware and software compatibility matrix

△ CAUTION:

To avoid an upgrade failure, use [Table 4](#) to verify the hardware and software compatibility before performing an upgrade.

Table 4 Hardware and software compatibility matrix

Item	Specifications
Product series	VSR1000
Hypervisor	VMware ESXi 4.1, 5.0, 5.1 Linux KVM (Linux Kernel > 2.6.25), the recommended Linux distributions: <ul style="list-style-type: none">- CentOS 6.3- Fedora 17- Ubuntu 12.10- Red Hat Enterprise Linux (RHEL) 6.3- SUSE Linux Enterprise Server 11SP2
Boot ROM version	Version 1.01 or higher
Host software	VSR1000_HP-CMW710-E0101P01-X64.ipe VSR1000_HP-CMW710-E0101P01-X64.iso VSR1000_HP-CMW710-E0101P01-X64.ova NOTE: The <i>VSR1000_HP-CMW710-E0101P01-X64.ova</i> is only available on VMware platform.
iMC version	iMC PLAT 7.0 (E0102) iMC EAD 7.0 (E0102) iMC QoS 7.0 (E0102) iMC SHM 7.0 (E0101) iMC NTA 7.0 (E0101) iMC UBA 7.0 (E0101) iMC EIA 7.0 (E0102)
iNode version	iNode PC 7.0 (E0102)

Upgrading restrictions and guidelines

None

Hardware feature updates

None

Software feature and command updates

For more information about the software feature and command update history, see *HP VSR1000_HP-CMW710-E0101P01-X64 Release Notes (Software Feature Changes)*.

MIB updates

Table 5 MIB updates

Item	MIB file	Module	Description
VSR1000_HP-CMW710-E0101P01-X64			
New	First release		
Modified	First release		

Operation changes

Operation changes in VSR1000_HP-CMW710-E0101P01-X64

First release

Restrictions and cautions

VSR License

Without a valid license, VSR performance will be very limited. To get full performance, please purchase and install a valid license. A free 60-day evaluation license is available from the HP website (<http://hp.com/networking/mynetworking/>). Please see the HP VSR1000 Virtual Services Router Installation and Getting Started Guide for full details. See "[Related documentation](#)".

Open problems and workarounds

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- **Symptom:** For E0101P01 release, some services of IPv6 Session are not available, including ASPF, Connection-Limit, Load Balancing, and APR.

- **Condition:** Using these services in IPv6 environment.
- **Workaround:** You can use the same services of IPv4.

List of resolved problems

Resolved problems in VSR1000_HP-CMW710-E0101P01-X64

First release

Related documentation

Documentation set

- HP VSR1000 Virtual Services Router Installation and Getting Started Guide-5W100
- HP VSR1000 Virtual Services Router Configuration Guides-5W100
- HP VSR1000 Virtual Services Router Command References-5W100

Obtaining documentation

To find related documents, browse to the Manuals page of the HP Support Center website:

<http://www.hp.com/support/manuals>

Contacting HP

For worldwide technical support information, see the HP support website:

<http://www.hp.com/support>

Before contacting HP, collect the following information:

- Product model names and numbers
- Technical support registration number (if applicable)
- Product serial numbers
- Error messages
- Operating system type and revision level
- Detailed questions

Subscription service

HP recommends that you register your product at the Subscriber's Choice for Business website:

<http://www.hp.com/go/wwalerts>

After registering, you will receive email notification of product enhancements, new driver versions, firmware updates, and other product resources.

Appendix A Feature list

Hardware features

None

Software features

Table 6 Software features of the VSR1000 series

Category	Features
Interface	Layer 3 Ethernet Interface Layer 3 Ethernet Subinterface
Layer 2 Protocol	ARP Ethernet_II, Ethernet_SNAP, 802.3x 802.1Q VLAN, VLAN Terminating PPPoE Client
IP routing	Static Routing (IPv4/IPv6) Dynamic Routing: RIPv1/v2, RIPng, OSPFv2, OSPFv3, BGP, BGP4+, IS-IS, IS-ISv6 Multicast Routing: IGMPv1/v2/v3, MLDv1/v2, PIM, IPv6 PIM, MSDP Routing Policy
IP service	IPv4/IPv6 Dual Stack IPv6 Transition: DS-Lite, Tunneling, 6PE Forwarding/Fast Forwarding (Unicast/Multicast) TCP, UDP, IP Option, IP Unnumber PBR Ping, Trace DHCP Server, DHCP Relay, DHCP Client DNS Client, DNS Proxy, DDNS FTP Server, FTP Client, TFTP Client Telnet Server, Telnet Client HTTP/HTTPS Server UDP Helper NTP/SNTP
MPLS	LDP, LSM, Static LSP, Static CR-LSP L3VPN 6VPE MPLS TE, RSVP TE

Category	Features
QoS	<p>Traffic Classification: based on port, MAC address, IP address, IP priority, DSCP priority, TCP/UDP port number, and protocol type</p> <p>Traffic Policing: CAR, LR</p> <p>Traffic Shaping: GTS</p> <p>Congestion Management: FIFO, WFQ, CBQ</p> <p>Congestion Avoidance: Tail-Drop, WRED</p> <p>MPLS QoS</p>
Security	<p>VPN: IPSec VPN</p> <p>Firewall: Packet Filter, ASPF</p> <p>Access Control: ACL, AAA (Local Authentication, RADIUS, HWTACACS, LDAP), RBAC, Portal</p> <p>Others: SSH v1.5/2.0, SSL, GRE, L2TP, NAT/NAPT, URPF, Session Management, Connection Limit, Password Management, FIPS/CC Mode</p>
High availability	<p>VRRP/VRRPv3</p> <p>BFD</p> <p>Load Balancing</p>
Management & Maintenance	<p>CLI: Console Port, SSH, Telnet</p> <p>Network Management: iMC, SNMPv1/v2c/v3, NETCONF</p> <p>Network Monitoring: RMON, Syslog, NQA, sFlow, NetStream, EAA</p> <p>Others: Automatic Configuration, File System, TCL, Python</p>

Appendix B Registering software

ⓘ IMPORTANT:

To get full performance please purchase and install a valid license. To make the new license take effect, you should **restart** the HP VSR1000 virtual router after the license activation file has been installed.

The HP website (<http://hp.com/networking/mynetworking/>) generates a license activation file based on the Device ID file (DID) and a suitable purchased license. To use the software function of the HP VSR1000 virtual router, you must install the license activation file on the device. The same website can provide a free 60-day evaluation license.

The software registration procedure requires the following steps:

1. Purchasing a license or obtaining a free 60-day evaluation license.
2. Obtaining the device information file
3. Registering the license on the HP website
4. Installing the activation file

Full details on how to license your VSR1000 product can be found in the HP VSR1000 Virtual Services Router Installation and Getting Started Guide. See "[Related documentation](#)".

Appendix C Upgrading software

This section describes how to upgrade system software while the router is operating normally or when the router cannot correctly start up.

System software file types

System software images are in .bin format (for example, main.bin) and run at startup. You can set a system software image as a **main**, **backup**, or **secure** image.

At startup, the router always attempts to boot first with the main system software image. If the attempt fails, for example, because the image file is corrupted, the router tries to boot with the backup system software image. If the attempt still fails, the router tries to boot with the secure system software image. If all attempts fail, the router displays a failure message.

The following software types are available:

- **Comware image**—Includes the following image subcategories:
 - **Boot image**—A .bin file that contains the Linux operating system kernel. It provides process management, memory management, file system management, and the emergency shell.
 - **System image**—A .bin file that contains the minimum feature modules required for device operation and some basic features, including device management, interface management, configuration management, and routing. To have advanced features, you must purchase feature packages.
 - **Patch packages**—Irregularly released packages for fixing bugs without rebooting the device. A patch package does not add new features or functions.

Boot image, and system image are required for the system to work. These images would be released as a whole in one .ipe package file. If an .ipe file is used, the system automatically decompresses the file, loads the .bin boot and system images and sets them as startup software images. Typically, the Boot ROM and startup software images for the device are released in an .ipe file.

Upgrade methods

You can upgrade system software by using one of the following methods:

Upgrade method	Remarks
Upgrading from the CLI	<ul style="list-style-type: none"> You must reboot the router to complete the upgrade. This method can interrupt ongoing network services.
Upgrading from the ISO image	<ul style="list-style-type: none"> Use this method when the router cannot correctly start up. You must reboot the router to complete the upgrade.

Preparing for the upgrade

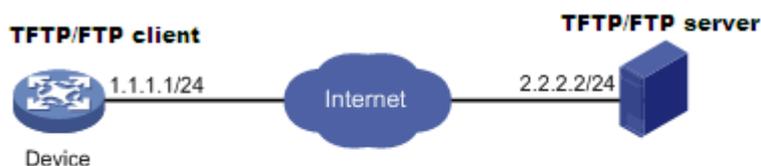
Before you upgrade system software, complete the following tasks:

- Set up the upgrade environment as shown in [Figure 1](#)
- Configure routes to make sure that the router and the file server can reach each other.
- Run a TFTP or FTP server on the file server.
- Log in to the CLI of the router through the console port.
- Copy the upgrade file to the file server and correctly set the working directory on the TFTP or FTP server.

⚠ IMPORTANT:

Make sure that the upgrade has minimal impact on the network services. During the upgrade, the router cannot provide any services.

Figure 1 Set up the upgrade environment



Upgrading from the CLI

You can use the TFTP or FTP commands on the router to access the TFTP or FTP server to back up or download files.

Using TFTP to upgrade software

This section describes how to upgrade system software by using TFTP.

Backing up the running system software image and configuration file

1. Perform the save command in any view to save the current configuration.

```
<Sysname> save
The current configuration will be written to the device. Are you sure? [Y/N]:y
Please input the file name(*.cfg)[flash:/startup.cfg]
(To leave the existing filename unchanged, press the enter key):
flash:/startup.cfg exists, overwrite? [Y/N]:y
Validating file. Please wait....
Configuration is saved to device successfully.
<Sysname>
```

2. Perform the dir command in user view to identify the system software image and configuration file names and verify that the disk has sufficient space for the new system software image.

```
<Sysname> dir
Directory of flash:
 0   drw-      -   Jun 28 2013 14:41:16   logfile
 1   drw-      -   Jun 28 2013 14:42:56   domain1
 2   -rw-     16256   Jun 28 2013 14:43:40   p2p_default.mtd
 3   -rw-     1694   Jun 28 2013 14:47:12   startup.cfg
 4   -rw-     3432   Jun 28 2013 14:47:10   system.xml
 5   -rw-   9500672   Sep 13 2013 03:49:46   VSR1000-CMW710-BOOT-E0101P01-X64.bin
 6   -rw-  65973248   Sep 13 2013 03:49:46   VSR1000-CMW710-SYSTEM-E0101P01-X64.bin
 7   -rw-   75481088   Sep 13 2013 03:48:14   VSR1000_HP-CMW710-E0101P01-X64.ipe
7311344 KB total (7104336 KB free)
<Sysname>
```

3. Perform the tftp put command in user view to upload the VSR1000_HP-CMW710-E0101P01-X64.ipe file to the TFTP server.

```
<Sysname> tftp 2.2.2.2 put VSR1000_HP-CMW710-E0101P01-X64.ipe
File will be transferred in binary mode
Sending file to remote TFTP server. Please wait... \
TFTP: 31131648 bytes sent in 70 second(s).
File uploaded successfully.
<Sysname>
```

4. Perform the tftp put command in user view to upload the startup.cfg file to the TFTP server.

```
<Sysname> tftp 2.2.2.2 put startup.cfg
File will be transferred in binary mode
Sending file to remote TFTP server. Please wait... \
TFTP: 1694 bytes sent in 0 second(s).
File uploaded successfully.
<Sysname>
```

Upgrading the system software

1. Perform the tftp get command in user view to download the system software image file VSR1000_HP-CMW710-E0101P01-X64.ipe to the disk on the router.

```
<Sysname> tftp 2.2.2.2 get VSR1000_HP-CMW710-E0101P01-X64.ipe
```

```
File will be transferred in binary mode
Downloading file from remote TFTP server, please wait...|
TFTP: 31131648 bytes received in 70 second(s)
File downloaded successfully.
```

<Sysname>

2. Perform the boot-loader command in user view to load the file VSR1000_HP-CMW710-E0101P01-X64.ipe and specify the file as the main image file at the next reboot.

```
<Sysname> boot-loader file VSR1000_HP-CMW710-E0101P01-X64.ipe main
```

```
Images in IPE:
```

```
VSR1000-CMW710-BOOT-E0101P01-X64.bin
```

```
VSR1000-CMW710-SYSTEM-E0101P01-X64.bin
```

```
This command will set the main startup software images. Continue? [Y/N]:y
```

```
Add images to the device.
```

```
flash:/VSR1000-CMW710-BOOT-E0101P01-X64.bin already exists on the device.
```

```
flash:/VSR1000-CMW710-SYSTEM-E0101P01-X64.bin already exists on the device.
```

```
The images that have passed all examinations will be used as the main startup software images at the next reboot on the device.
```

<Sysname>

3. Perform the display boot-loader command in user view to verify that the file has been loaded.

```
<Sysname> display boot-loader
```

```
Software images on the device:
```

```
Current software images:
```

```
flash:/VSR1000-CMW710-BOOT-E0101P01-X64.bin
```

```
flash:/VSR1000-CMW710-SYSTEM-E0101P01-X64.bin
```

```
Main startup software images:
```

```
flash:/VSR1000-CMW710-BOOT-E0101P01-X64.bin
```

```
flash:/VSR1000-CMW710-SYSTEM-E0101P01-X64.bin
```

```
Backup startup software images:
```

<Sysname>

4. Perform the reboot command in user view to reboot the router.

```
<Sysname> reboot
```

```
Start to check configuration with next startup configuration file, please wait.....DONE!
```

```
This command will reboot the device. Continue? [Y/N]:y
```

```
Now rebooting, please wait...
```

5. After the reboot is complete, perform the display version command to verify that the system software image is correct.

```
<Sysname>display version
```

```
HP Comware Software, Version 7.1.047, ESS 0101P01
```

```
Copyright (c) 2010-2013 Hewlett-Packard Development Company, L.P.
```

```
HP VSR1000 uptime is 0 weeks, 0 days, 0 hours, 0 minutes
```

```
Last reboot reason : User reboot
```

```
Boot image: flash:/VSR1000-CMW710-BOOT-E0101P01-X64.bin
```

```
Boot image version: 7.1.047, ESS 0101P01
```

```
Compiled Sep 13 2013 03:49:46
```

```
System image: flash:/VSR1000-CMW710-SYSTEM-E0101P01-X64.bin
```

```
System image version: 7.1.047, ESS 0101P01
```

Compiled Sep 13 2013 03:49:46

```
CPU ID: 0x01000101, vCPUs: Total 1, Available 1
1.00G bytes RAM Memory
Basic      BootWare Version: 1.00
Extended BootWare Version: 1.00
[SLOT 1]VNIC-E1000      (Driver)1.0
[SLOT 2]VNIC-E1000      (Driver)1.0
<Sysname>
```

Using FTP to upgrade software

This section describes how to upgrade system software by using FTP.

Backing up the running system software image and configuration file

1. Perform the save command in any view to save the current configuration.

```
<Sysname> save
```

```
The current configuration will be written to the device. Are you sure? [Y/N]:y
Please input the file name(*.cfg)[flash:/startup.cfg]
(To leave the existing filename unchanged, press the enter key):
flash:/startup.cfg exists, overwrite? [Y/N]:y
Validating file. Please wait...
Configuration is saved to device successfully.
<Sysname>
```

2. Perform the dir command in user view to identify the system software image and configuration file names and verify that the disk has sufficient space for the new system software image.

```
<Sysname> dir
```

```
Directory of flash:
 0   drw-      - Jun 28 2013 14:41:16  logfile
 1   drw-      - Jun 28 2013 14:42:56  domain1
 2   -rw-      16256 Jun 28 2013 14:43:40  p2p_default.mtd
 3   -rw-      1694 Jun 28 2013 14:47:12  startup.cfg
 4   -rw-      3432 Jun 28 2013 14:47:10  system.xml
 5   -rw-     9500672 Sep 13 2013 03:49:46  VSR1000-CMW710-BOOT-E0101P01-X64.bin
 6   -rw-     65973248 Sep 13 2013 03:49:46  VSR1000-CMW710-SYSTEM-E0101P01-X64.bin
 7   -rw-     75481088 Sep 13 2013 03:48:14  VSR1000_HP-CMW710-E0101P01-X64.ipe
7311344 KB total (7104336 KB free)
<Sysname>
```

3. Perform the ftp command in user view to access the FTP server.

```
<Sysname> ftp 2.2.2.2
```

```
Press CTRL+C to abort.
Connected to 2.2.2.2 (2.2.2.2).
220 WFTPD 2.0 service (by Texas Imperial Software) ready for new user
User (2.2.2.2:(none)): user001
331 Give me your password, please
Password:
230 Logged in successfully
Remote system type is MSDOS
```

```
ftp>
```

4. Perform the put command in FTP client view to upload the VSR1000_HP-CMW710-E0101P01-X64.ipe file to the FTP server.

```
ftp> put VSR1000_HP-CMW710-E0101P01-X64.ipe
227 Entering passive mode (2,2,2,2,7,210)
125 Using existing data connection
226 Closing data connection; File transfer successful.
FTP: 31131648 byte(s) sent in 21.363 second(s), 1116.00Kbyte(s)/sec.
ftp>
```

5. Perform the put command in FTP client view to upload the startup.cfg file to the FTP server.

```
[ftp] put startup.cfg
227 Entering passive mode (2,2,2,2,7,177)
125 Using existing data connection
226 Closing data connection; File transfer successful.
FTP: 1677 byte(s) sent in 0.142 second(s), 11.00Kbyte(s)/sec.
ftp>
```

Upgrading the system software

1. Perform the get command in FTP client view to download the system software image file VSR1000_HP-CMW710-E0101P01-X64.ipe to the router.

```
ftp> get VSR1000_HP-CMW710-E0101P01-X64.ipe
227 Entering passive mode (2,2,2,2,7,225)
125 Using existing data connection
226 Closing data connection; File transfer successful.
FTP: 31131648 byte(s) received in 30.907 second(s), 772.00K byte(s)/sec.
ftp>
```

2. Perform the quit command in FTP client view to return to user view.

```
ftp>quit
221 Service closing control connection
<Sysname>
```

3. Perform the boot-loader command in user view to load the file VSR1000_HP-CMW710-E0101P01-X64.ipe and specify the file as the main image file at the next reboot.

```
<Sysname> boot-loader file flash:/VSR1000_HP-CMW710-E0101P01-X64.ipe main
Images in IPE:
  VSR1000-CMW710-BOOT-E0101P01-X64.bin
  VSR1000-CMW710-SYSTEM-E0101P01-X64.bin
This command will set the main startup software images. Continue? [Y/N]:y
Add images to the device.
flash:/VSR1000-CMW710-BOOT-E0101P01-X64.bin already exists on the device.
flash:/VSR1000-CMW710-SYSTEM-E0101P01-X64.bin already exists on the device.
The images that have passed all examinations will be used as the main startup software
images at the next reboot on the device.
<Sysname>
```

4. Perform the display boot-loader command in user view to verify that the file has been loaded.

```
<Sysname> display boot-loader
Software images on the device:
Current software images:
```

```
flash:/VSR1000-CMW710-BOOT-E0101P01-X64.bin
flash:/VSR1000-CMW710-SYSTEM-E0101P01-X64.bin
Main startup software images:
flash:/VSR1000-CMW710-BOOT-E0101P01-X64.bin
flash:/VSR1000-CMW710-SYSTEM-E0101P01-X64.bin
Backup startup software images:
None
<Sysname>
```

5. Perform the reboot command in user view to reboot the router.

```
<Sysname> reboot
```

```
Start to check configuration with next startup configuration file, please
wait.....DONE!
```

```
This command will reboot the device. Continue? [Y/N]:y
```

```
Now rebooting, please wait...
```

6. After the reboot is complete, perform the display version command to verify that the system software image is correct.

```
<Sysname> display version
```

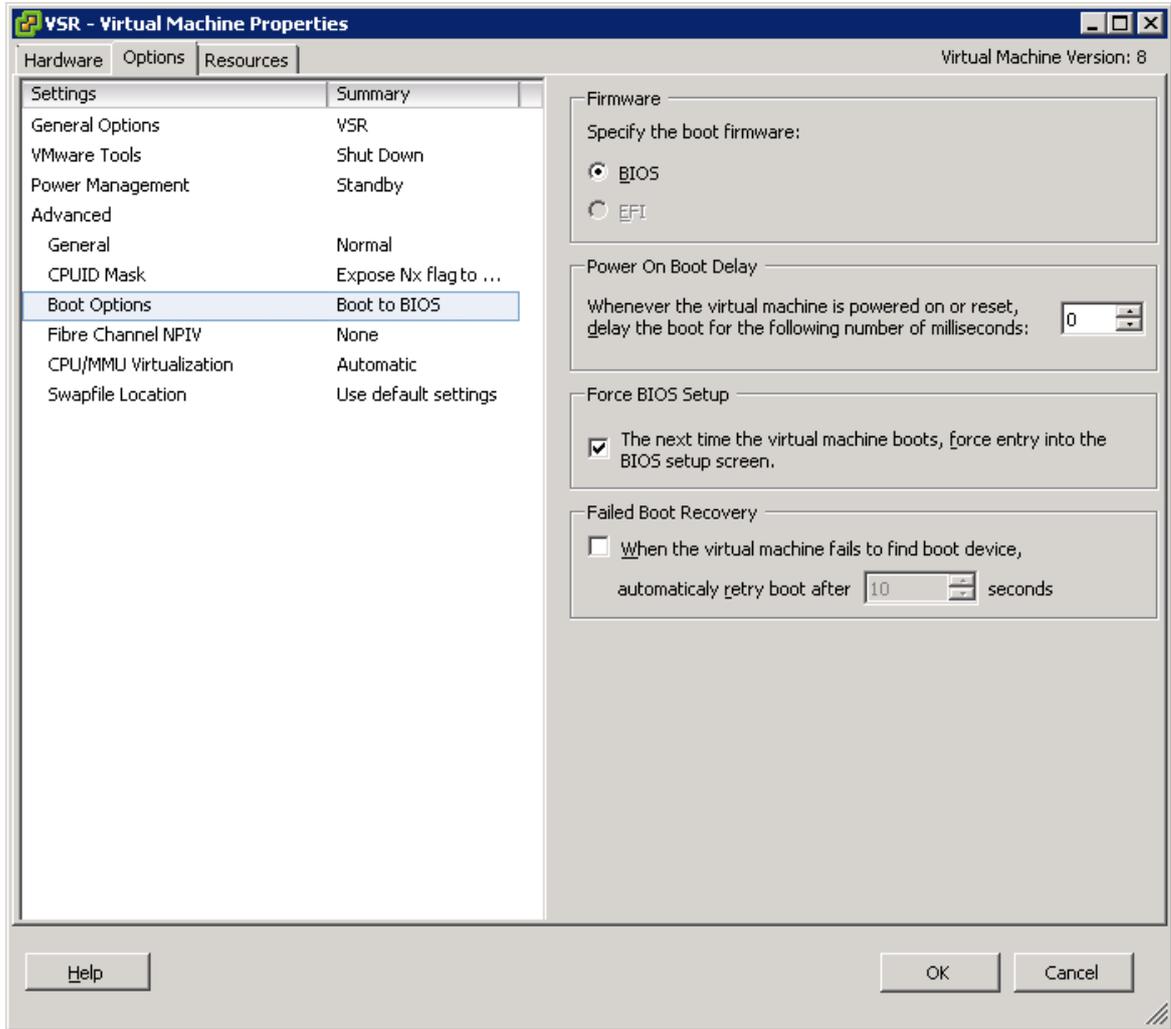
```
HP Comware Software, Version 7.1.047, ESS 0101P01
Copyright (c) 2010-2013 Hewlett-Packard Development Company, L.P.
HP VSR1000 uptime is 0 weeks, 0 days, 0 hours, 0 minutes
Last reboot reason : User reboot
Boot image: flash:/VSR1000-CMW710-BOOT-E0101P01-X64.bin
Boot image version: 7.1.047, ESS 0101P01
Compiled Sep 13 2013 03:49:46
System image: flash:/VSR1000-CMW710-SYSTEM-E0101P01-X64.bin
System image version: 7.1.047, ESS 0101P01
Compiled Sep 13 2013 03:49:46
```

```
CPU ID: 0x01000101, vCPUs: Total 1, Available 1
1.00G bytes RAM Memory
Basic BootWare Version: 1.00
Extended BootWare Version: 1.00
[SLOT 1]VNIC-E1000 (Driver)1.0
[SLOT 2]VNIC-E1000 (Driver)1.0
<Sysname>
```

Upgrading from the ISO image

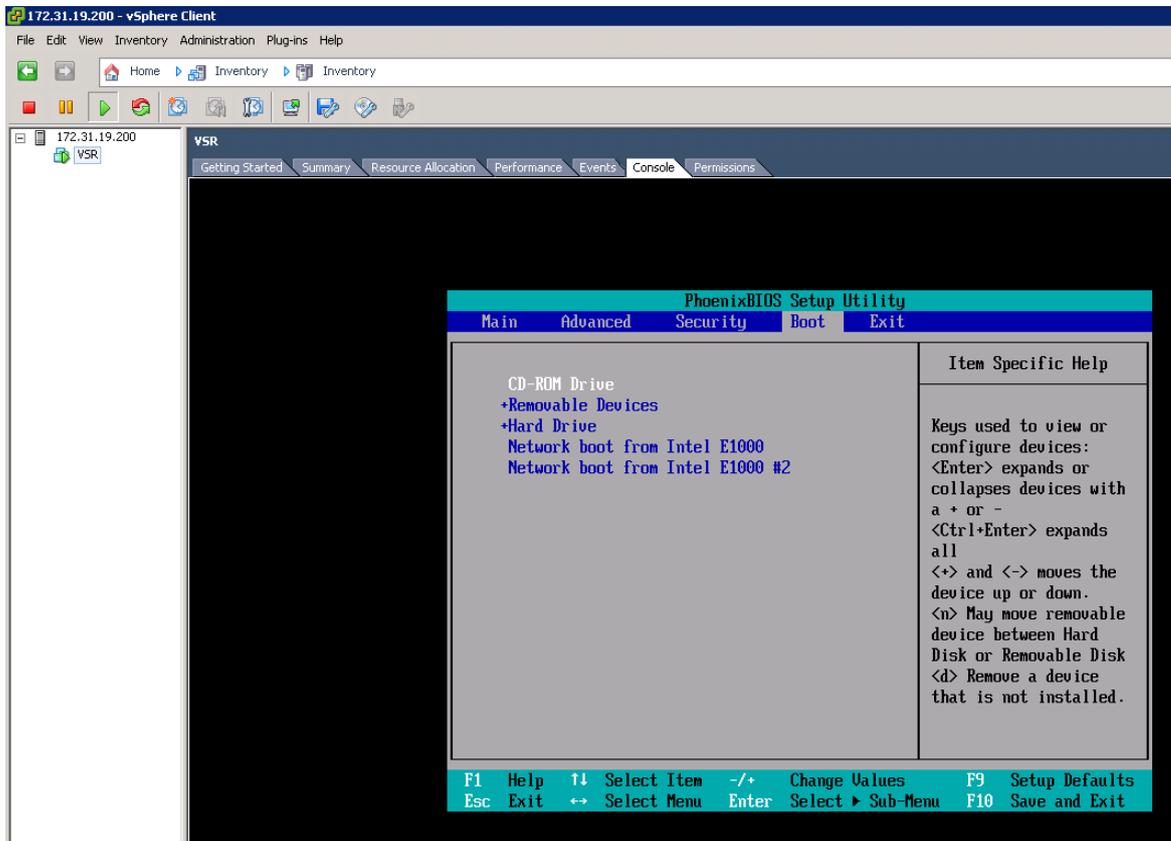
1. Select the newly created virtual machine from the navigation tree, and select Edit from the right-click menu. Click the Options tab. Select the box in the Force BIOS Setup area, and click OK.

Figure 2 Selecting Force BIOS Setup



2. Select the newly created virtual machine from the navigation tree, and click  to start the virtual machine. The page in [Figure 3](#) appears. In the **Console** tab, select the **Boot** tab, configure the virtual machine to preferentially boot from the CD-ROM drive, save the configuration, and exit.

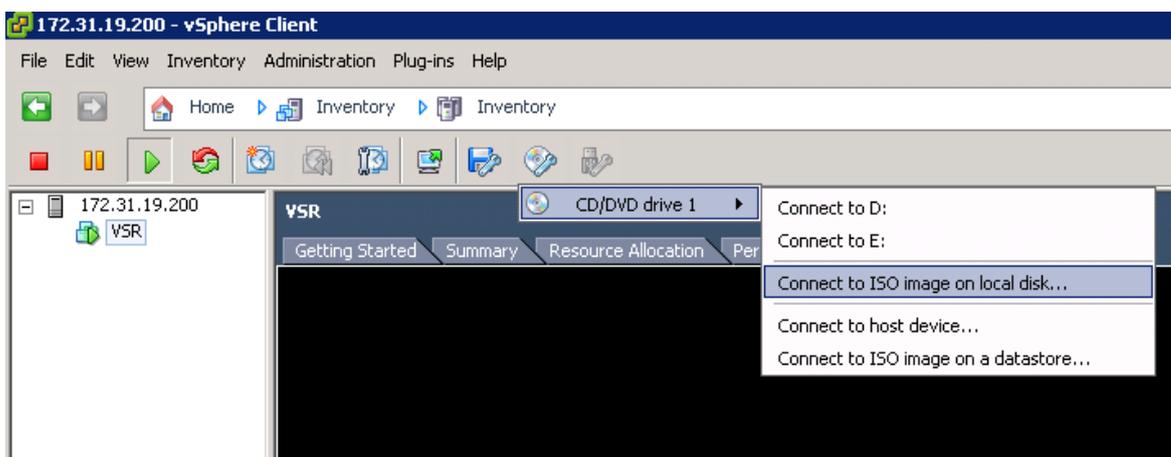
Figure 3 Configuring the virtual machine to preferentially boot from the CD-ROM drive



3. Connecting the CD drive of the virtual machine to the ISO image of the VSR and restarting the virtual machine

Click  to connect the CD drive of the virtual machine to the ISO image of the VSR and restart the virtual machine.

Figure 4 Connecting the CD drive of the virtual machine to the ISO image of the VSR



4. Booting the virtual machine from the ISO image and entering the installation interface
5. The installation interface is as shown in [Figure 5](#) . Enter 2 to select **Upgrade Install** to upgrade the VSR to the version in the ISO image.

Figure 5 Installation interface

```
***** USR install *****
***** CAUTION *****
The minimum system requirements for USR:
CPU: 1 virtual CPU (2.0 GHz)
Memory: 1 GB
Disk Space: 8 GB
Network Interfaces: 2 virtual NICs
Please check the VM configuration before booting the USR.
*****

===== <USR INSTALL MENU> =====
:<1> Fresh Install
:<2> Upgrade Install
:<3> Recovery Install
:<0> Reboot
=====
Enter your choice(0-3): 2
Installing USR... This may take a while!
USR upgrade installed OK.

Next you must remove the CD from the drive and reboot,
Enter 'yes' to reboot, anything else to return menu: yes
```

6. After the installation is finished, disconnect the CD drive as shown in Figure 6 and Figure 7 . Then, enter **yes** to reboot the system and complete installing VSR.

Figure 6 Disconnecting the CD drive 1

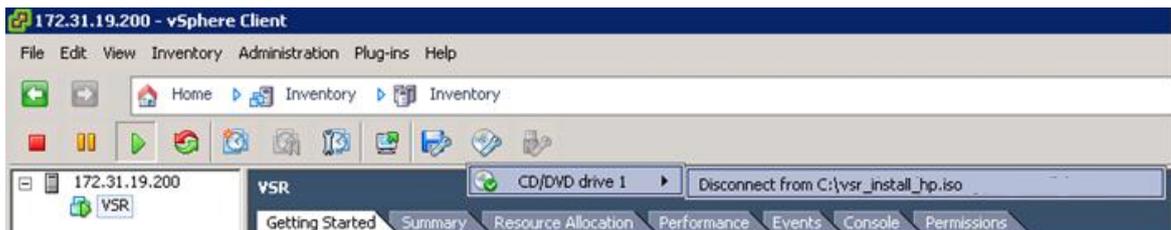
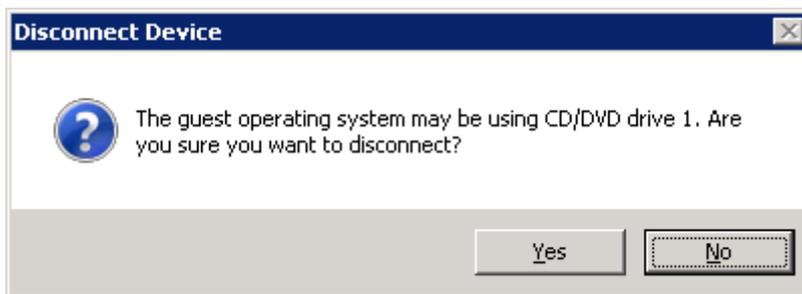


Figure 7 Disconnecting the CD drive 2



7. After the reboot is complete, perform the **display version** command to verify that the system software image is correct.

```
<Sysname> display version
HP Comware Software, Version 7.1.047, ESS 0101P01
Copyright (c) 2010-2013 Hewlett-Packard Development Company, L.P.
HP VSR1000 uptime is 0 weeks, 0 days, 0 hours, 0 minutes
Last reboot reason : User reboot
Boot image: flash:/VSR1000-CMW710-BOOT-E0101P01-X64.bin
```

Boot image version: 7.1.047, ESS 0101P01
Compiled Sep 13 2013 03:49:46
System image: flash:/VSR1000-CMW710-SYSTEM-E0101P01-X64.bin
System image version: 7.1.047, ESS 0101P01
Compiled Sep 13 2013 03:49:46

CPU ID: 0x01000101, vCPUs: Total 1, Available 1
1.00G bytes RAM Memory
Basic BootWare Version: 1.00
Extended BootWare Version: 1.00
[SLOT 1]VNIC-E1000 (Driver)1.0
[SLOT 2]VNIC-E1000 (Driver)1.0
<Sysname>