



Installation and Upgrade Guide for Cisco Virtualized Voice Browser, Release 12.0(1)

First Published: 2019-01-11

Americas Headquarters

Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 USA http://www.cisco.com Tel: 408 526-4000

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Change History

This table lists changes made to this guide. Most recent changes appear at the top.

Change	See	Date
Initial Release of Document for Release 12.0(1)		January 2019

About This Guide

This document explains how to install Cisco Virtualized Voice Browser (Cisco VVB) in a Contact Center deployment. Review all the installation instructions carefully before you install Cisco VVB.

Audience

This guide is intended for administrators who install and upgrade Cisco VVB.

Related Documents

Cisco VVB provides the following documentation:

- Solution Design Guide for Cisco Unified Customer Voice Portal
- Configuration Guide for Cisco Unified Customer Voice Portal

- Solution Port Utilization Guide for Cisco Virtualized Voice Browser
- Operations Guide for Cisco Virtualized Voice Browser
- Developer Guide for Cisco Virtualized Voice Browser

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at Cisco Profile Manager.
- To get the business impact you're looking for with the technologies that matter, visit Cisco Services.
- To submit a service request, visit Cisco Support.
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit Cisco Marketplace.
- To obtain general networking, training, and certification titles, visit Cisco Press.
- To find warranty information for a specific product or product family, access Cisco Warranty Finder.

Cisco Bug Search Tool

Cisco Bug Search Tool (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

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System Requirements



Note

Cisco Virtualized Voice Browser (Cisco VVB) supports installation on virtualized servers. For more information on system requirements and Open Virtualization Archive (OVA), see the *Virtualization for Cisco Virtualized Voice Browser* at https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/virtualization-cisco-virtualized-voice-browser.html.

Supported Browsers

See *Compatibility Matrix* at https://www.cisco.com/c/en/us/support/customer-collaboration/unified-contact-center-enterprise/products-device-support-tables-list.html.

Create a Virtual Machine from the OVA

Before you begin

Download Cisco VVB OVA template from CCO.

Procedure

- **Step 1** Select the Host in the vSphere client.
- **Step 2** Choose **File > Deploy OVF Template**.
- Step 3 Browse to the location on your local drive where you stored the OVA. Click **Open** to select the file. Click **Next**.
- **Step 4** Click **Next** at the OVF Template Details page.

Note For Cisco Unified CVP ova, an End User License Agreement displays. Click **Agree** and then click **Next**.

- **Step 5** Enter the virtual machine name. Click **Next**.
- Step 6 On the Deployment Configuration page, use the drop-down to select the appropriate configuration. Then click Next.
- **Step 7** Choose a datastore on which to deploy the new virtual machine. Then click **Next.**
- Step 8 On the Disk Format page, keep the default virtual disk format: Thick provisioned Lazy Zeroed format. Click Next.
- **Step 9** At the Successfully Completed message, click **Close**.

Note Do not make any changes to the VM configurations once the VMs are created.

Configure DNS Server



Note

This is an optional configuration step.

This procedure is for Windows DNS server.

Mount and Unmount ISO Files

Upload ISO image to data store:

- 1. Select the host in the vSphere client and click **Configuration**. Then click **Storage** in the left panel.
- 2. Select the datastore that will hold the ISO file.
- 3. Right click and select Browse datastore.
- 4. Click the Upload icon and select Upload file.
- 5. Browse to the location on your local drive where you saved the ISO file, and upload the ISO to the datastore.

Mount the ISO image:

- 1. Right-click the VM in the vSphere client and select Edit virtual machine settings.
- 2. Click **Hardware** and select **CD**|**DVD Drive** 1.
- **3.** Check **Connect at power on** (Device status panel upper right).
- 4. Click the **Datastore ISO File** radio button and then click **Browse**.
- 5. Navigate to the data store where you uploaded the file.
- **6.** Select the ISO file and click **OK**.

Unmount the ISO image:

- 1. Right-click the VM in the vSphere client and select Edit virtual machine settings.
- 2. Click **Hardware** and select **CD**|**DVD Drive** 1.
- 3. Uncheck Connect at power on (Device status panel, upper right).

Install Cisco VVB

Before you begin

Perform the following tasks before installation:

- Ensure the Network Time Protocol (NTP) and DNS servers are running (mandatory for VMware deployments).
- Download the Cisco VVB ISO image and OVA template.
- Deploy virtual machine using the OVA template.

Procedure

- **Step 1** Mount the ISO image on the virtual machine.
- Step 2 The installer checks the integrity of the ISO image before beginning the installation. Click Yes to perform a media check.
 - If the media integrity check fails, the ISO might be corrupted. Download another ISO image and reinstall.
 - If the media integrity check is successful, click **OK** to proceed with the installation.
- Follow the instructions on the screen to complete the installation. Enter the basic configuration information as described in Server Configuration Information for Installation, on page 4.

Important When the **Apply Patch** window appears, click **No** to begin the basic installation. Installation may take 2-3 hours to complete.

Server Configuration Information for Installation



Note

- You can use the configuration table for saving your entries either on a printed paper or online.
- Ensure the hostname and passwords that you enter while running the installation program are case-sensitive.

Table 1: Configuration Table

Parameter		Your Entry	
Time Zone			
NIC D	uplex		
Note	This parameter is not displayed if automatic negotiation is used.		
NIC S _l	peed		
Note	This parameter is not displayed if automatic negotiation is used.		
MTU S	MTU Size		
Note	Maximum Transmission Unit (MTU) value of the server.		
Hostna	nme		
Tip	Ensure that the hostname is assigned on the DNS server. The hostname must contain only alphanumeric characters or hyphen. It cannot be "localhost" or an IP address.		
IP Address			
IP Mask			
Gateway Address			
[Optional] Primary DNS			
[Optional] Secondary DNS (optional)			
[Option	[Optional] Domain		

Parameter		Your Entry
Adminis	strator ID	
Note	You <i>cannot</i> change the original administrator account user ID.	
Caution	Do not create administrator IDs (for CLI access or Operating System administration) that start with "vvb" or "VVB" because such IDs conflict with system account names that are used internally within the Cisco Virtualized Voice Browser server.	
Adminis	strator Password	
Note	This field specifies the password for the administrator account, which you use for secure shell access to the CLI, for logging in to Cisco Unified Communications Operating System Administration, and for logging in to the Disaster Recovery System. Ensure that the password is at least six characters long; it can contain alphanumeric characters, hyphens, and underscores.	
	You can change the password after installation.	
Unit		
Note	The value you enter is used to generate a Certificate Signing Request.	
Location	n	
State		
Note	The value you enter is used to generate a Certificate Signing Request.	
Country	7	
Note	The value that you enter is used to generate a Certificate Signing Request and self-signed certificates.	
NTP Server		
Note	Enter the hostname or IP address of one or more Network Time Protocol (NTP) servers with which you want to synchronize.	
	You can enter up to 5 NTP servers.	
	You can change the NTP server after installation.	

Parameter		Your Entry
Security Password		
Note	This password is used to reset your application password. The password must contain at least six alphanumeric characters. It can contain hyphens and underscores, but it must start with an alphanumeric character.	
	You can change the password after installation by using the following CLI command:	
	set password user security	
SMTP	Location	
Note	You must populate this field if you plan to use e-mail notification.	
Applica	ation User Name	
Note	Use the Application User Name to log in to the Administration Web Portal.	
Application User Password		
Note	Use the Application User password as the default password for the application. Ensure that the password is at least six characters long; it can contain alphanumeric characters, hyphens, and underscores. You can change the password after installation.	

Post Installation



Note

Use single instance of Web browser to complete the post-installation steps.

Procedure

- **Step 1** After the initial installation, open the VVB user interface on a web browser and log in as the configured administrator.
- **Step 2** Wait for all the components to be activated, and then click **Next**.
- Step 3 Configure system parameters, and then click **Next**. You can view the status of the VVB setup.

Step 4 Close the Web browser and log in again to use VVB.

Unattended Installation

Unattended installation performs installation silently using a configuration file that includes all the input parameters. Use Cisco Unified Communications Answer File Generator to generate answer files for unattended installations of Cisco VVB.

The Answer File Generator supports the following features:

- Allows simultaneous generation and saving of answer files for unattended installation.
- Provides syntactical validation of data entries.
- Provides online help and documentation.

Procedure

- Step 1 Go to https://www.cisco.com/web/cuc_afg/index.html (Cisco Unified Communications Answer File Generator web page).
- **Step 2** Select the following options:
 - a) Primary Node Installed On as Virtual Machine
 - b) Product as Cisco Virtualized Voice Browser
- **Step 3** Enter the remaining information on Answer File Generator web page and click to generate a configuration file.
 - a) Click the **Proceed to Download Answer Files** button to download the file.
 - b) Follow the Download Instructions on the page and click the **Download File** button.
- **Step 4** Save the platformConfig.xml file on your local system.

Perform Unattended Installation Using Answer File

Procedure

- **Step 1** Create a floppy drive image adding the Answer file.
 - a) Create the answer file (platformConfig.xml) using https://www.cisco.com/web/cuc_afg/index.html.
 - b) Fill out the required information on the Answer File Generate page.
 - c) Click the Generate Answer Files & License MAC button.
 - d) From the popup window, click Proceed to Download Answer Files and click Download File.
 - **Note** Ensure that you have enabled popup windows option on your browser.
 - e) Copy the contents as a text file.

- f) Right-click the popup window and select **View Page Source**. A window is displayed with xml format of the file.
- g) Copy the contents and paste into a text editor. Save the file as platformConfig.xml.
- h) Download the **WinImage** program. Use this program to create the FLP image that can be mounted.
- Run WinImage and drag the file into the program.
 The program pops up a Format Selection window. Click OK and click Yes to inject the file into the program.
- j) Save the file as Virtual floppy image.flp format. The file must have the name platformConfig.flp.
- k) You can now mount this file on your VM. Access the VM via console access using vSphere.
- l) Click the floppy disk icon and select **Connect to floppy on local disk**. This is your local PC. You can upload to the datastore as well.
- **Step 2** Mount the floppy drive image in VM under the **Floppy Drive 1**.
- **Step 3** Select the **Connect at power-on** option in Floppy Drive 1.
- **Step 4** After you start the VM, the Cisco VVB ISO boots the system and executes platformConfig.xml automatically.

Access Cisco VVB Administration Web Interface

The web pages of the Cisco VVB Administration web interface allow you to configure and manage the Cisco VVB system and its subsystems.

Use the following procedure to navigate to the server and log in to Cisco VVB Administration web interface.

Procedure

Step 1 Open the Cisco VVB Administration Authentication page from a web browser on any computer on your network and enter the case-sensitive URL in the following format:

https://<servername>/appadmin

Replace <servername> with the hostname or IP address of the required Cisco VVB server.

A Security Alert dialog box is displayed.

Step 2 On the Cisco Virtualized Voice Browser Administration web page, enter your Cisco VVB username and password.

Note If you are accessing Cisco VVB for the first time, enter the Application User credentials that you specified during installation of the Cisco VVB.

Step 3 Click Login.

Access Cisco VVB Serviceability Web Page

Cisco VVB Serviceability is used to view alarm and trace definitions for Cisco VVB services (start, stop, and monitor Cisco VVB Engine activity) and to activate and deactivate services.

Procedure

- **Step 1** Log in to Cisco Virtualized Voice Browser Administration web page.
- Step 2 From the Navigation drop-down list, select Cisco VVB Serviceability and click GO. Cisco VVB Serviceability web page is displayed.

Access Cisco VVB Serviceability Web Page



Cisco VVB Upgrade

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Cisco VVB Upgrade Types

Before You Begin

• Ensure that there are no hostname/IP address entries beyond the system entries. If you do, then back up these hostname/IP address entries by running **show vvb host-to-ip** command. You can delete the hostname/IP address by running **utils vvb delete host-to-ip** command.



Note

Add the hostname/IP address entries after upgrade and switch version are successful by running **utils vvb add host-to-ip** command.

- Check the 11.6 VVB OVA HDD profile using the CLI command: show hardware
- Ensure that you change the CPU resource allocation as mentioned in the *Virtualization for Cisco Virtualized Voice Browser* at https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/virtualization-cisco-virtualized-voice-browser.html.

Upgrade files are available as ISO images.



Important

From Release 11.6, VVB is available in two release ISOs: the VVB export restricted software image and the VVB export unrestricted software image. The export unrestricted image does not support SRTP voice media. An upgrade from one release ISO to the other is not possible.

You can upgrade Cisco VVB from:

- Cisco OS Administration web interface
- Command Line Interface (CLI)

You can apply the ISO images from:

- · Local DVD
- FTP/SFTP server

For information about supported upgrades, see *Compatibility Matrix for Cisco VVB* at https://www.cisco.com/c/en/us/support/customer-collaboration/unified-contact-center-enterprise/products-device-support-tables-list.html.



Note

Local DVD option is not available for upgrading Cisco VVB on KVM.

To apply ES, follow the same procedure as Cisco VVB upgrade.

Upgrade Type	Upgrade Path	Description
Release to Release		There is service interruption during the upgrade and subsequent server restart.

Important Information

- You may experience a delay of approximately 30 minutes for the services to start during the first restart of the Cisco VVB system post the switch version. This is due to the application of Security policies post upgrade. This delay will not appear in subsequent restarts.
- It takes approximately 2 hours to upgrade.
- Cisco VVB versions include a feature in the VMware Installation information line to indicate whether the disk partitions are aligned. If the disk partitions are aligned, the VMware installation information line will indicate Partitions aligned. After upgrading, if the VMware installation information line indicates ERROR-UNSUPPORTED: Partitions unaligned, it means Cisco cannot provide support for performance issues.

Preupgrade Tasks

Procedure

- **Step 1** Ensure that you have the Secure File Transfer Protocol (SFTP) server product.
- **Step 2** Obtain the appropriate ISO file from https://software.cisco.com/download/home.
- **Step 3** Get an ISO image of the upgrade file and follow the steps:

- a) Write the ISO image on a DVD. Do not copy the ISO file to a DVD.
- b) Copy the ISO image on an FTP/SFTP server on which your server has access.

Cisco VVB Upgrade

Upgrade Cisco VVB Using Web Interface

You can upgrade Cisco VVB either from a local DVD or from a FTP/SFTP server.

Procedure

Step 1	Log in to Cisco OS Administration using administrator username and password.
Step 2	Choose Software Upgrades > Install/Upgrade.
Step 3	Choose source as either DVD/CD or Remote Filesystem from the Source list.
Step 4	Enter the path of the upgrade file in the Directory field. For Remote Filesystem , enter a forward slash (/) followed by the directory path.
Step 5	If you chose Remote Filesystem , follow the instructions on the screen; otherwise, skip to Step 6 .
Step 6	Click Next to see the list of upgrades that are available.
Step 7	Choose the appropriate upgrade file, and click Next .
Step 8	Enter relevant information in the Email Destination and SMTP server fields to use the Email Notification feature.

Perform switch version in the same maintenance window to avoid additional downtime.

Click **Next** to initiate the upgrade process.

Upgrade Cisco VVB Using CLI

Note

Step 9

Procedure

Log in to Cisco Unified Communications OS Platform CLI using administrator username and password.
Enter the command show version active and check the current version.
Enter the command utils system upgrade status and check whether the node is ready for upgrade.
Enter the command utils system upgrade initiate to initiate the upgrade process.
Choose the source where the upgrade file is placed.
Follow the instructions on the screen.
Your entries are validated and the list of available files is displayed.

- Step 7 Select the ISO image you want to apply from the available list, and confirm the installation when you are prompted.
- **Step 8** Enter the command **show version active** and check the upgrade version.

Note Perform switch version in the same maintenance window to avoid additional downtime.

Switch Version and Verify

This procedure provides information to switch versions, verify active versions and status of services either by using the web interface or using the CLI.

Procedure

- **Step 1** To perform switch version, you can either use web interface or CLI.
 - Follow the steps for web interface:
 - a. Log in to Cisco Unified OS Administration using administrator username and password.
 - **b.** Choose **Settings** > **Version** to check the versions.
 - **c.** Click **Switch Versions**, and click **OK** to start the switch version process.
 - **d.** Choose **Settings** > **Version** to check the active version.

Note The time taken for switching version depends on the size of records in the database.

- Follow the steps for CLI:
- **a.** Log in to Cisco Unified Communications OS Platform CLI using administrator username and password.
- **b.** Enter the command **show version active** to check the active version.
- **c.** Enter the command **show version inactive** to check the inactive version.
- **d.** Enter the command **utils system switch-version** to start the switch version process.
- e. Enter the command show version active to check the active version.
 - **Note** The time taken for switching version depends on the size of records in the database.

Note If switch version is unsuccessful, you can restore the database by following these steps:

- a. Log in to Cisco Unified Communications OS Platform CLI using administrator username and password.
- **b.** Enter the command **utils vvb switch-version db-check** to check if the database is corrupt.
- **c.** Enter the command **utils vvb switch-version db-recover** to restore the database.

- **Step 2** To verify the active and inactive versions of Cisco VVB, you can use either the web interface or the CLI.
 - Follow the steps for web interface:
 - a. Log in to Cisco Unified OS Administration using administrator username and password.
 - **b.** Choose **Settings** > **Version** to check the current active and inactive versions.
 - Follow the steps for CLI:
 - a. Log in to Cisco Unified Communications OS Platform CLI using administrator username and password.
 - **b.** Enter the command **show version active** to check the active version.
 - **c.** Enter the command **show version inactive** to check the inactive version.
- **Step 3** To verify the status of services, you can use either the web interface or the CLI.
 - Follow the steps for web interface:
 - a. Log in to Cisco VVB Serviceability using administrator username and password.
 - b. Choose Tools > Control Center Network Services and verify that all the services are running.
 - Follow the steps for CLI:
 - a. Log in to Cisco Unified Communications OS Platform CLI using administrator username and password.
 - **b.** Enter the command **utils service list** to verify that all the services are running.

Postupgrade Tasks

You must update the VMWare Tools after you complete and upgrade. There are options for updating the VMware Tools:

- Configure the tools to use the **Automatic Tools Upgrade** option.
- Configure the tool to automatically check the tools version during a VM power on and upgrade the tools

For more information about how to configure the options, see the VMware documentation here.

Disaster Recovery Service

Disaster Recovery Service is not supported for Cisco VVB. Ignore the warning message alert on the Cisco Unified OS Administration login page.

Disaster Recovery Service



Cisco VVB Installation on KVM

• Install Cisco VVB on KVM, on page 17

Install Cisco VVB on KVM

Before you begin

- Download Cisco VVB OVA template from CCO. Read the OVA's readme file before you create a virtual machine using the OVA.
- For hardware requirements, see https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/virtualization-cisco-virtualized-voice-browser.html.

Procedure

Step 1 Copy the OVA image from FTP/TFTP server to the router by running:

copy ftp harddisk

Example:

Step 2 Install the package by running:

virtual-service install name <name> package <uri:.ova>

Note The package name is case-sensitive.

Example:

router# virtual-service install name vvb package harddisk:VVB_12_0_1_ISR4K.ova
Installing package 'harddisk:/VVB_12_0_1_ISR4K.ova' for virtual-service 'vvb'. Once the
install has finished, the VM may be activated. Use 'show virtual-service list' for progress.

Step 3 Configure VirtualPortGroup Interface by running:

interface VirtualPortGroup <interface number>

ip unnumbered <interface type> <interface number>

Example:

```
router# config t
Enter configuration commands, one per line. End with CNTL/Z.
router(config)# interface VirtualPortGroup1
router(config-if)# ip unnumbered GigabitEthernet0/0/0
router(config-if)# end
router# show ip int brief | sec VirtualPortGroup1
VirtualPortGroup1 10.10.10.58 YES unset up up
```

Note

- The virtual-service name is case-sensitive and must match the name given in Step 2.
- The IP address of the router/VirtualPortGroup Interface and the guest/VM must be on the same subnet.
- This VirtualPortGroup1 interface acts as the default gateway for the VM.

Step 4 Configure the service by running:

virtual-service <name>

Example:

```
1. Get into the virtual-service config mode by running:
conf t
<enter>
2. Assign VirtualPortGroup Interface as gateway to connect to guest virtual-service/VM
router# config t
router(config)# virtual-service vvb
router(config-virt-serv)# vnic gateway VirtualPortGroup1
router(config-virt-serv-vnic)# guest ip address 10.10.10.59
router(config-virt-serv-vnic)#
router(config-virt-serv-vnic)#!!! 10.00.00.000 will be the IP of the VM!!!
router(config-virt-serv-vnic)# exit
vnic gateway VirtualPortGroup <interface number><enter>
```

Note

- The virtual-service name is case-sensitive and must match the name given in Step 2.
- The IP address of the router/VirtualPortGroup Interface and the guest/VM must be on the same subnet.

Step 5 Add the static IP route for the guest VM instance by running:

ip route <VM IP address> <subnet mask> <VirtualPortGroup Interface>

Example:

```
router# config t
Enter configuration commands, one per line. End with CNTL/Z.
router(config)# ip route 10.10.10.10 255.255.255.0 VirtualPortGroup1
router(config)#!!!! 10.10.10.10 will be Guest/VM IP !!!!!!!
```

Note This is to make sure that the assigned VirtualPortGroup interface is the gateway for only this specific IP address in the network.

Step 6 Activate the service by running:

activate

Example:

```
router# config t
Enter configuration commands, one per line. End with CNTL/Z.
router(config)# virtual-service vvb
router(config-virt-serv)# activate
% Activating virtual-service 'vvb', this might take a few minutes. Use 'show virtual-service
list'
for progress.
router(config-virt-serv)# end
router# show virtual-service list
System busy activating virtual-service 'vvb'. The request may take several minutes...
Virtual Service List:
Name
                       Status
                                         Package Name
                       Activating
                                          VVB 12 0 1 ISR4K.ova
router# show virtual-service list
Virtual Service List:
Name
                       Status
                                          Package Name
                                          VVB 12 0 1 ISR4K.ova
                       Activated
```

Note The virtual-service name is case-sensitive and must match the name given in Step 2.

Step 7 Connect to the virtual service console by running:

virtual-service connect name < name > console

Example:

```
router# virtual-service connect name vvb console
Connected to appliance. Exit using ^c^c^c
Cisco Virtualized Voice Browser <11.x.x>
vvbkvm login:
Default credentials: administrator/C!sco123
```

Note This may take 2-3 minutes to connect to the console.

Step 8 Change the hostname and the IP address by running:

set network hostname

Example:

```
Host name Change:
Login to administrator
admin:set network hostname
ctrl-c: To quit the input.
       *** WARNING
Do not close this window without first canceling the command.
This command will automatically restart system services.
The command should not be issued during normal operating
hours.
______
Note: Please verify that the new hostname is a unique
      name across the cluster and, if DNS services are
      utilized, any DNS configuration is completed
      before proceeding.
Security Warning : This operation will regenerate
      all UCCX Certificates including any third party
      signed Certificates that have been uploaded.
Enter the hostname: vvbkvm
Would you like to change the network ip address at this time [yes]: yes
Warning: Do not close this window until command finishes.
ctrl-c: To quit the input.
              WARNING
_____
Note: Please verify that the new ip address is unique
     across the cluster.
______
Enter the ip address:: 10.78.0.00
Enter the ip subnet mask:: 255.255.255.0
Enter the ip address of the gateway:: 10.78.0.1
Hostname: vvbkvm
IP Address:
             10.78.0.00
Subnet Mask: 255.255.255.0
Gateway:
             10.78.0.1
Do you want to continue [yes/no]? yes
calling 1 of 8 component notification script: acluster healthcheck.sh
calling 2 of 8 component notification script: adpuccx IP HostName change.sh
calling 3 of 8 component notification script: ahostname_callback.sh
Info(0): Processnode query returned using kvmvvb:
name
kvmvvb
updating server table from: 'kvmvvb', to: 'vvbkvm'
Rows: 1
updating database, please wait 90 seconds
updating database, please wait 60 seconds
updating database, please wait 30 seconds
calling 4 of 8 component notification script: drf_notify_hostname_change.py
calling 5 of 8 component notification script: hosts mgr.sh
calling 6 of 8 component notification script: idsLocalPrefsUpdateFile.sh
Going to trigger /usr/bin/python /usr/local/cm/lib/dblupdatefiles-plugin.py -f=vvbkvm,kvmvvb
```

```
calling 7 of 8 component notification script: regenerate_all_certs.sh
calling 8 of 8 component notification script: update_idsenv.sh
System services will restart in 1 minute
admin: utils system restart
```

Note

- Changing the hostname fails if the hostname includes any of these wildcard characters: ".", "_", "@", "!", "#", "\$", "%"
- Engine takes around 5 minutes to be in service after the server comes back up.
- API and configuration services take around 10 minutes to be in service.

Step 9 Validate Cisco VVB services.

- a) Log in to VVB administrator using appadmin credentials.
- b) Go to Cisco VVB serviceability.
- c) Check if the services are up and running.

Install Cisco VVB on KVM



Cisco VVB Uninstallation on KVM

• Uninstall Cisco VVB on KVM, on page 23

Uninstall Cisco VVB on KVM

Procedure

Step 1 Deactivate virtual-service from the virtual-service config mode by running:

no activate

Example:

router# configure

Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
router(config)#
router(config)# virtual-service vvb
router(config-virt-serv)# no activate

router(config-virt-serv)# no activate
router(config-virt-serv)# ^Z
router# show virtual-service list

Virtual Service List:

Name Status Package Name

vvb Deactivating VVB_12_0_1_ISR4K.ova

Name Status Package Name

vvb Deactivated VVB_12_0_1_ISR4K.ova

Note This can take around 5-10 minutes.

Step 2 In the privileged EXEC mode, run:

virtual-service uninstall name <name>

Example:

router# virtual-service uninstall name vvb

Note The virtual-service name is case-sensitive and must match the name given in Step 2 of the preceding procedure.

Step 3 To verify the VVB instance was successfully deactivated/uninstalled, run:

a) show log

Example:

```
router# show log

show log

*Aug 1 08:51:48.845: %VIRT_SERVICE-5-ACTIVATION_STATE: Successfully deactivated virtual
    service vvb

*Aug 1 08:52:45.418: %VIRT_SERVICE-5-INSTALL_STATE: Successfully uninstalled virtual
    service vvb
```

b) show virtual-service list

Example:

```
router# show virtual-service list
Virtual Service List:
```

Note The output of the command must be empty.



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