

Cisco vWAAS on VMware ESXi

This chapter describes how to use Cisco vWAAS on VMware vSphere ESXi, and contains the following sections:

- About Cisco vWAAS on VMware ESXi
- Supported Host Platforms, Software Versions, and Disk Type
- OVA Package Formats for vWAAS on VMware ESXI
- Installing vWAAS on VMware ESXi
- Upgrade/Downgrade Guidelines for vWAAS on VMware ESXi

About Cisco vWAAS on VMware ESXi

Cisco vWAAS for VMware ESXi provides cloud-based application delivery service over the WAN in ESX/ESXi-based environments. Cisco vWAAS on VMware vSphere ESXi is delivered an OVA file. The vSphere client takes the OVA file for a specified vWAAS model, and deploys an instance of that vWAAS model.

Supported Host Platforms, Software Versions, and Disk Type

Table 4-1 shows the platforms and software versions supported for vWAAS on VMware ESXi.

PID and Device Type	Minimum WAAS Version	Host Platforms	Minimum Host Version	Disk Type
PID: OE-VWAAS-ESX	• 5.0.3g	Cisco UCS (Unified Computing System)	• ESXi 5.0	• VMDK
Device Type: OE-VWAAS-ESX		Cisco UCS-E Series		

Table 4-1 Platforms and Software Versions Supported for vWAAS on VMware ESXi

VMware ESXi for Cisco vWAAS and Cisco WAAS

This section contains the following topics:

- VMware ESXi Versions Supported for Cisco WAAS
- ESXi Server Datastore Memory and Disk Space for vWAAS and vCM Models

VMware ESXi Versions Supported for Cisco WAAS

ESX version	WAAS v5.1	WAAS v5.2	WAAS v5.3	WAAS v5.4	WAAS v5.5	WAAS v6.x
ESXi 6.5 vWAAS fresh installation	x	x	x	X	x	X
ESXi 6.5 vWAAS upgrade	x	x	x	х	x	x
ESXi 6.0 vWAAS fresh installation	x	x	x	х	x	Supported OVA
ESXi 6.0 vWAAS upgrade	x	x	x	x	x	Upgrade with .bin file
ESXi 5.5 vWAAS fresh installation	x	x	Supported OVA	Supported OVA	Supported OVA	Supported OVA
ESXi 5.5 vWAAS upgrade	x	x	Upgrade with .bin file	Upgrade with .bin file	Upgrade with .bin file	Upgrade with .bin file
ESXi 5.0/5.1 vWAAS fresh installation	Supported OVA	Supported OVA	Supported OVA	Supported OVA	Supported OVA	Supported OVA
ESXi 4.1/5.0 vWAAS upgrade	Upgrade with .bin file	Upgrade with .bin file	Upgrade with .bin file	Upgrade with .bin file	Upgrade with .bin file	x
ESXi 4.1 vWAAS fresh installation	Supported OVA	Install vWAAS 5.1 OVA, then upgrade using .bin file, or Migrate from ESXi 4.1 to 5.0/5.1	x	x	x	x

Table 4-2 VMware ESXi Versions Supported for Cisco WAAS



For vWAAS with ESXi Version 5.5 on a Cisco UCS host: if the DRE latency threshold or an AO timeout alarm occurs, check for the I/O command abort in the vWAAS. To do this, use the **copy sysreport** EXEC command.

If the I/O abort is observed:

Upgrade the RAID controller's driver to Version 6.610.19.00 or later.

If the I/O abort is still observed after the RAID controller driver upgrade: Capture and share the following logs for further analysis: —Guest-VM sysreport —VMware's host diagnostic report —RAID controller's firmware log

ESXi Server Datastore Memory and Disk Space for vWAAS and vCM Models

This section contains the following topics:

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vWAAS-50000

- Table 4-3 shows ESXi server datastore memory and disk space per vWAAS model, for WAAS v4.3.1 through v5.3.5, and for WAAS v5.4.x through v6.x.
- Table 4-4 shows ESXi server datastore memory and disk space per vCM model, for WAAS v4.3.1 through v5.3.5, and for WAAS v5.4.x through v6.x.

For WAAS v4.3.1 through v5.3.5 For WAAS v5.4.x through v6.x Datastore Datastore vCPUs vWAAS Model vCPUs Memory Disk Memory Disk vWAAS-150 1 3 GB ---160 GB ------(for WAAS Version 6.x) vWAAS-200 1 2 GB160 GB 1 3 GB 260 GB 2 4 GB 250 GB 2 4 GB vWAAS-750 500 GB 2 2 vWAAS-1300 6 GB 300 GB 6 GB 600 GB 4 4 vWAAS-2500 8 GB 400 GB 8 GB 750 GB 4 vWAAS-6000 4 8 GB 500 GB 11 GB 900 GB vWAAS-12000 4 12 GB 750 GB 4 12 GB 750 GB

1500 GB

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Table 4-3 vCPUs, ESXi Server Datastore Memory, and Disk Space by vWAAS Model

Table 4-4	vCPUs, ESXi Server Da	atastore Memory, and	I Disk Space by vCM	Model
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48 GB

	For WAAS v4.3.1 through v5.3.5			For WAAS v5.4.x through v6.x		
vCM Model	vCPUs	Datastore Memory	Disk	vCPUs	Datastore Memory	Disk
vCM-100N	2	2 GB	250 GB	2	2 GB	250 GB
vCM-500N				2	2 GB	300 GB
vCM-1000N				2	4 GB	400 GB
vCM-2000N	4	8 GB	600 GB	4	8 GB	600 GB

48 GB

1500 GB

OVA Package Formats for vWAAS on VMware ESXI

This section contains the following topics:

- OVA Package for vWAAS on VMware ESXi for WAAS Version 5.x to 6.2.x
- OVA Package for vWAAS on VMware ESXi for WAAS Version 6.4.1 and Later



For a listing of hypervisor OVA, zip, and tar.gz files for vWAAS, see the Cisco Wide Area Application Services (WAAS) Download Software Page and select the WAAS software version used with your vWAAS instance.

OVA Package for vWAAS on VMware ESXi for WAAS Version 5.x to 6.2.x

For vWAAS on VMware ESXi, for WAAS Version 5.x through 6.2.x, Cisco provides an OVA or NPE OVA package for each vWAAS connection profile (examples shown in Table 4-5) and for each vCM connection profile (examples shown in Table 4-6).

Package Format	File Format Example
Cisco vWAAS 150 package file	Cisco-vWAAS-150-6.2.3d-b-68.ova
Cisco vWAAS 150 package file for NPE	• Cisco-vWAAS-150-6.2.3d-npe-b-68.ova
Cisco vWAAS 200 package file	Cisco-vWAAS-200-6.2.3d-b-68.ova
Cisco vWAAS 200 package file for NPE	Cisco-vWAAS-200-6.2.3d-npe-b-68.ova
Cisco vWAAS 750 package file	Cisco-vWAAS-750-6.2.3d-b-68.ova
Cisco vWAAS 750 package file for NPE	Cisco-vWAAS-750-6.2.3d-npe-b-68.ova
Cisco vWAAS 1300 package file	• Cisco-vWAAS-1300-6.2.3d-b-68.ova
Cisco vWAAS 1300 package file for NPE	• Cisco-vWAAS-1300-6.2.3d-npe-b-68.ova
Cisco vWAAS 2500 package file	• Cisco-vWAAS-2500-6.2.3d-b-68.ova
Cisco vWAAS 2500 package file for NPE	• Cisco-vWAAS-2500-6.2.3d-npe-b-68.ova
Cisco vWAAS 6000 package file	Cisco-vWAAS-6000-6.2.3d-b-68.ova
Cisco vWAAS 6000 package file for NPE	• Cisco-vWAAS-6000-6.2.3d-npe-b-68.ova
Cisco vWAAS 12k package file	Cisco-vWAAS-12k-6.2.3d-b-68.ova
Cisco vWAAS 12k package file for NPE	• Cisco-vWAAS-12k-6.2.3d-npe-b-68.ova
Cisco vWAAS 50k package file	Cisco-vWAAS-50k-6.2.3d-b-68.ova
Cisco vWAAS 50k package file for NPE	Cisco-vWAAS-50k-6.2.3d-npe-b-68.ova

Table 4-5 Cisco OVA Package Format Examples for vWAAS on VMware ESXi

Table 4-6 Ci	isco OVA Package	Formats for v	CM for WAAS	Versions earlier	than Version 6.4.1
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Package Format	File Format Example
Cisco vCM 100N package file	• Cisco-vCM-100N-6.2.3d-b-68.ova
Cisco vCM 100N package file for NPE	Cisco-vCM-100N-6.2.3d-npe-b-68.ova

OVA Package for vWAAS on VMware ESXi for WAAS Version 6.4.1 and Later

For vWAAS on VMware ESXi, for WAAS Version 6.4.1 and later, Cisco provides a single, unified OVA for NPE and non-NPE version of the WAAS image for all the vWAAS models for that hypervisor.

Each unified OVA package is a pre-configured virtual machine image that is ready to run on a particular hypervisor. The launch script for each unified OVA package file provides the model and other required parameters to launch vWAAS with WAAS in the required configuration.

Here are examples of the unified OVA and NPE OVA package filenames for vWAAS in VMware ESXi:

- OVA—Cisco-ESXi-vWAAS-Unified-6.4.1-b-33.ova
- NPE OVA—Cisco-ESXi-vWAAS-Unified-6.4.1-b-33-npe.ova

The unified OVA package for VMware ESXi contains the following files.

- OVF file—Contains all resource information.
- Flash disk image
- Data system disk
- Akamai disk

Use the VMware ESXi OVF template wizard to deploy these files, described in Installing VMware ESXi for vWAAS for WAAS Version 6.4.1 and Later.

Installing vWAAS on VMware ESXi

This section has the following topics:

- Installing VMware ESXi for vWAAS for WAAS Versions 5.x to 6.2.x
- Installing VMware ESXi for vWAAS for WAAS Version 6.4.1 and Later

Installing VMware ESXi for vWAAS for WAAS Versions 5.x to 6.2.x

To install the vWAAS Virtual Machine (VM) with VMware vSphere ESXi, follow these steps:

Step 1 From the vSphere Client, choose File > Deploy OVF Template. The Source window appears (Figure 4-1).

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New	writery > 198 Hosts and Clusters		Search Joyn	dire: 0
Deploy OVP Template			Levin	
Export				
Report	2.8.3.17 VMware E5X, 4.0.0, 236512		and the second se	and the strength in the
Browse vA Marketplace	Hardware	Processors	ontiguration Tests & Ellerits Alerite Permissione A	Maps Consequences Inc.
F-#	+ Descenteres	General		a la construction de la construc
Orielso-12	Himory Storage Networking Storage Adapters Advanced Settings Software Licensed Postures Technic Institution	Model Processor Speed Processor Sockets Processor Socket Logical Processors Hyperthreaking Power Management Technology Power Management Policy System	Intel(R) Xeon(R) CPU E5540 @ 2.539tc 2.5 GHz 4 16 Enabled Enhanced Intel SpeedStep(R) High performance	
Sharepowl Sharepowl Sharepowl Sharepowl Sharepowl Sharepowl Sharepowl VCAnter-Sarver VCAnter-Sarver	Time Configuration ENS and Risubing Power Minagement Virtual Machine Startug/Shuddown Virtual Machine Startug/Shuddown Virtual Machine Startug/Shuddown Security Profile System Resource Adocation Advanced Settings	Manufacturer Model	Cisco Systemic Inc R200-1120402	

Figure 4-1 vWAAS - Deploy OVF Template

Step 2 Click Browse.

The Open window appears.

- Step 3 Navigate to the location of the vWAAS OVA file and click Open.
 - If the virtual host was created using an OVA of vWAAS for WAAS Version 5.1.x or later, proceed to Step 4.
 - If the virtual host was created using an OVA file of vWAAS for WAAS Version 5.0 or earlier, and you have upgraded vWAAS from inside WAAS, you must verify that the SCSI Controller Type is set to **VMware Paravirtual**. Otherwise, vWAAS will boot with no disk available, and will fail to load the specified configuration.

If needed, change the SCSI controller type to VMware Paravirtual by following these steps:

- a. Power down the vWAAS.
- b. From the VMware vCenter, navigate to vSphere Client > Edit Settings > Hardware.
- c. Choose SCSI controller 0.
- d. From the Change Type drop-down list, verify that the SCSI Controller Type is set to VMware Paravirtual. If this is not the case, choose VMware Paravirtual.
- e. Click OK.
- f. Power up the vWAAS, with WAAS Version 6.1.x or later.
- **Step 4** Click **Next** to accept the selected OVA file.

The Name and Location window appears.

Step 5 Enter a name for the vWAAS VM, choose the appropriate data center, and then click Next.

The Cluster window appears (if a cluster is configured), or the Resource Pool window appears (if a resource pool is configured). Otherwise, the Datastore window appears (in this case, skip to Step 7).

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Figure 4-2 vWAAS - Name and Data Center Location

Step 6 If configured, choose a cluster for the vWAAS VM or, if configured, choose the resource pool and then click Next.

The Datastore window appears.

Step 7 Choose a datastore to host the virtual machine and click Next.

ource	Select a datastore in t	which to store th	e VM files:				
VF Template Details	Name	Capacity	Provisioned	Free	Туре	Thin Provisioning	Access
esource Pool	[SAN Storage]	1.36 TB	629.80 GB	884.45 GB	VMFS	Supported	Multiple
isk Format letwork Mapping eady to Complete	[rest of						

Figure 4-3 vWAAS - Datastore

Note The datastore must be formatted with a block size greater than 1 MB to support file sizes larger than 256 GB.

The Create a Disk window appears.

Step 8 The Disk Provisioning section has three disk format options: Thick Provision Lazy Zeroed, Thick Provision Eager Zeroed, and Thin Provision. Select **Thick Provision Eager Zeroed**.



Note You must choose the **Thick Provision Eager Zeroed** disk format for vWAAS deployment; this is the format recommended with vWAAS deployment for a clean installation.

Step 9 Click Next.

The Network Mapping window appears.

Step 10 Choose the network mapping provided by ESXi and click **Next**. You have the option to change this later if necessary.

The Ready to Complete window appears.

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Source DVF Template Details Name and Location	Map the networks used in this OVF t	emplate to networks in your inventory	
Resource Pool	Source Networks	Destination Networks	
Disk Format	VM Network	Virtual Machine Network	
	Description:		15 m
	Description: The VM Network network		*

Figure 4-4 vWAAS - Network Mapping

Step 11 Click **Finish** to complete the installation.

The status window appears while the OVA file is being deployed.





Step 12 When the deployment is finished, the Deployment Completed Successfully window appears.

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Figure 4-6	vWAAS - Completed	
🛃 Deploym	ent Completed Successfully	
Deploying	vWAAS-vCM-Small-OVF	
Completed	Successfully	[mining
		Close 0055

- Step 13 Click Close.
- Step 14 You are ready to start the VM. Highlight the vWAAS VM and click Power on Virtual Machine.

Step 15 After vWAAS finishes booting, click the Console tab to view boot up messages.



Note

Under rare conditions, the vWAAS VM may boot into diskless mode if other VMs on the host VM server do not release control of system resources or the physical disks become unresponsive. For information on how to resolve this situation, see Resolving Diskless Startup and Disk Failure in Chapter 10, "Troubleshooting Cisco vWAAS."

For vWAAS configuration information, see Chapter 2, "Configuring Cisco vWAAS and Viewing vWAAS Components".

Installing VMware ESXi for vWAAS for WAAS Version 6.4.1 and Later

vWAAS for WAAS Version 6.4.1 and later supports VMware vCenter Version 6.0.0. To deploy any vWAAS or vCM Model for WAAS Version 6.4.1 and later on VMware ESXi, register the ESXi host with VMware vSphere vCenter version 6.0.

Note

The OVA deployment for WAAS Version 6.4.1 and later must be done only through VMware vCenter.

To deploy the VMware ESXi hypervisor for vWAAS for WAAS Version 6.4.1 and later, follow these steps:

Step 1 Log in into the VMware vCenter using VMware vSphere Client (Figure 4-8).

Figure 4-8 VMv	vare vSphere Client Login Window
🕑 VMware vSphere Client	ו
vm ware [.]	
VMware vSphere	
Client	
All vSphere features available only throug vSphere Client will cu feature set as vSphere To directly manage a sing To manage multiple hosts, vCenter Server.	introduced in vSphere 5.5 and beyond are gh the vSphere Web Client. The traditional ontinue to operate, supporting the same ere 5.0. le host, enter the IP address or host name. , enter the IP address or name of a
IP address / Name:	218.83
Licer namer	administrates@umberg local
Oser Hame.	administrator@vsphere.iocai
Password:	Use Windows session credentials

- Step 2 To begin the task of adding the ESXi host into the datacenter on VMware vCenter Client, you must first create a datacenter. Navigate to Actions > New Datacenter.....
- Step 3 At the Create Datacenter page, click Add.
- Step 4 In the Create Datacenter dialog box:
 - **a**. In the Name field enter a name for the datacenter. The name can contain up to 16 alphanumeric characters with no spaces and no special characters.
 - b. In the Description field enter a description for this datacenter.
- Step 5 To add the host into the datacenter on VMware vCenter Client, navigate to the Getting Started tab > Add Host... menu selection (Figure 4-9).

7	New Folder	Ctrl+F
財	New Cluster	Ctrl+L
3	New Datastore Cluster	
ľ	Add Host	Ctrl+H
đ	New Virtual Machine	Ctrl+N
\$	New vSphere Distributed Switch	h Ctrl+K
	Add Datastore	
	Rescan for Datastores	
1	Migrate Virtual Machine Netwo	orking
	Add Permission	Ctrl+P
	Alarm	•
	Open in New Window	Ctrl+Alt+N
	Remove	
	Rename	

Step 6 Choose Specify Connection Settings and the Specify Connection Settings window appears (Figure 4-10).

onnection Settings ost Summary rtual Machine Location	Connection
eady to Complete	Host: 2.1.9.174
	Authorization Enter the administrative account information for the host. vSphere Client will use this information to connect to the host and establish a permanent account for its operations. Username: Password: ********

Figure 4-10 Specify Connection Settings Window

- a. In the Connection pane Host field, enter the ESXi host name or IP address.
- b. In the Authorization pane Username and Password fields, enter the ESXi username and password.
- c. Click Next.

Step 7 The Host Information window appears (Figure 4-11), which displays information you can review for the specified host, including host name or IP address, vendor name, model name and number, the VMware version, and the associated virtual machines.

Figure 4-11 Host Information Window

Lunnecuon Seconds	You have chosen	n to add the following host to vCenter:	
Assign License .ockdown Mode /irtual Machine Location Ready to Complete	Name: Vendor: Model: Version: Virtual Machine: 1750 1750 1000N	2.1.9.174 Cisco Systems Inc UCSC-BASE-M2-C460 VMware ESXi 6.0.0 build-2494585 s:	

a. If the displayed host information meets your system requirements, click Next.

Step 8 The Assign License window appears.

There are two options: Assign an existing license key to this host and Assign a new license key to this host.

- **a**. Use one of the radio buttons to assign an existing license key or to assign a new license key to this host.
- b. Click Next.



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- **Note** Licenses are installed and managed only on individual devices, not device groups. For more information about licenses, see the "Configuring Other System Settings" chapter, section "Managing Software Licenses" of the *Cisco Wide Area Application Services Configuration Guide*.
- Step 9 The Configure Lockdown Mode window appears (Figure 4-12).

🛃 Add Host Wizard	
Configure Lockdown Mode Specify whether lockdown mode	is to be enabled for this host.
Connection Settings Host Summary Assign License Lockdown Mode Choose Resource Pool Ready to Complete	Lockdown Mode When enabled, lockdown mode prevents remote users from logging into this host using its administrative login name (e.g., "admin" or "root"). If no other local accounts are created on the host, users will only be able to manage the host while connected to vCenter Server. The administrative account may still be used to perform limited management tasks by logging into the direct console. If you are unsure what to do, leave this box unchecked. You can configure lockdown mode later by navigating to the host's Configuration tab and editing its Security Profile. Image: Enable Lockdown Mode
Help	Cancel

Figure 4-12 Configure Lockdown Mode Window

- **Step 10** Lockdown mode is disabled by default.
 - Leave the Enable Lockdown Mode check box unchecked to keep lockdown mode disabled.

When lockdown mode is disabled, all router and module communication commands behave normally.

• Check the Enable Lockdown Mode check box to enable lockdown mode.

When lockdown mode is enabled, the VMware vSphere Hypervisor host can be only be managed by the VMware vCenter Server using its internal user called **vpxuser**. All other configuration methods, such as the vSphere Client, PowerCLI, and vCLI are disabled.

Step 11 Click Next.

Step 12 The Virtual Machine Location window appears (Figure 4-13).

<u>Connection Settings</u> Host Summary Assign License	Select a location for this host's virtual machines.
<u>Lockdown Mode</u> Virtual Machine Location Ready to Complete	

Figure 4-13 Virtual Machine Location Window

- a. Select a location in the vCenter Server Inventory for the specified host's virtual machines.
- b. Click Next.
- Step 13 The vSphere Client window is displayed with the Recent Tasks pane displaying a Completed status for this task (Figure 4-14).

Figure 4-14 vSphere Client Recent Tasks Pane

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Recent Tasks							
Name 🤝	Target	Status	Details	Initiated by	Requested Start Time	Start Time	Completed Time
Add standalone host	WAAS_SJ	Completed		VSPHERE.LO	4/19/2018 10:15:41	4/19/2018 10:15:41	4/19/2018 10:15:55

Step 14 Navigate to File > Deploy OVF Template... (Figure 4-15).

igu	re 4-15 Deplo	oy OV	'F Template Menu Sel
2 2	1.8.83 - vSphere Client		
File	Edit View Inventory	Admir	nistration Plug-ins Help
	New	•	entory 👂 🛐 Hosts and i
1	Deploy OVF Template.	10 - E	
	Export	•	
	Report	•	2.1.9.174 VMware ESXi,
	Print Maps	E	Getting Started Summ
	Exit		35

- Step 15 Download the vWAAS OVA from the Cisco Wide Area Application Services (WAAS) Download Software Page.
- Step 16 Navigate to File > Deploy OVF Template... > Source.
- Step 17 The Source window appears (Figure 4-16), where you select the OVA file.

Figure 4-16 Source Window

💋 Deploy OVF Template		
Source Select the source location.		
Source OVF Template Details Name and Location I Host / Cluster Resource Pool Disk Format Ready to Complete	Deploy from a file or URL http://bistro.cisco.com/index.php?dir=vWAA5-OVA/6.4.3/i Browse Enter a URL to download and install the OVF package from the Internet, or specify a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.	002000

- a. From the Deploy from a file or URL drop-down list, select the OVA file.
- **Step 18** The OVF Template Details window appears (Figure 4-17), where you can verify the OVF template details including product name, version, vendor, download size, size on disk, and a description.

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OVF Template Details Verify OVF template details	κ.		
Source OVF Template Details Name and Location Deployment Configuration ■ Host / Cluster Resource Pool Disk Format Ready to Complete	Product: Version: Vendor: Publisher: Download size: Size on disk:	Cisco WAAS: vWAAS 6.4.3 Cisco Systems Inc. No certificate present 607.7 MB 100.2 MB (thin provisioned)	
	Description:	"Cisco WAAS: vWAAS/vCM" Cisco Virtual Wide Area Application Services (vWAAS) appliance resourced to optimize concurrent TCP connections Cisco Virtual Configuration Manager (vCM) resourced to manage nodes	

Figure 4-17 OVF Template Details Window

- a. To accept the selected OVA file, click Next.
- Step 19 The Name and Location window appears (Figure 4-18), where you specify a name and location for the deployed template.

Name and Location Specify a name and locati	on for the deployed template
Source	Name:
OVF Template Details	VWAAS-200
Deployment Configuration Host / Cluster	The name can contain up to 80 characters and it must be unique within the inventory folder.
Resource Pool	Inventory Location:
Ready to Complete	E 2.1.8.83 DEV_Datacenter L7-Performance E WAAS_SJ

Figure 4-18 Name and Location Window

- a. In the Name field, enter the name for the vWAAS VM.
- b. At the Inventory Location listing, select the location to deploy (datacenter).
- c. Click Next.
- Step 20 The Deployment Configuration window appears (Figure 4-19).

🕗 Deploy OVF Template		
Deployment Configuration Select a deployment configur	ation.	
Source OVF Template Details Name and Location Deployment Configuration	Configuration:	
Host / Cluster Resource Pool Disk Format Ready to Complete	Deploy a VWAAS 200 connection profile with 2 vCPU, 4 GB RAM	

Figure 4-19 Deployment Configuration Window

- a. From the **Configuration** drop-down list, choose the vWAAS model to deploy. After you choose a vWAAS model, the window displays a description of the vWAAS model, such as "Deploy a vWAAS-200 connection profile with 2 vCPU, 4 GB RAM."
- b. Click Next.

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Step 21 The Host/Cluster window is displayed (Figure 4-20), where you can choose a host or cluster to run the deployed template.



Figure 4-20 Host/Cluster Window

- a. Select the ESXi host or cluster where you need to run the deployed template.
- b. Click Next.
- **Step 22** The Disk Format window is displayed (Figure 4-21), which displays data store address and available disk space, in GB, and provisioning choices.

Disk Format In which format do you wa	ant to store the virtual disks?		
Source OVF Template Details Name and Location Deployment Configuration Host / Cluster	Datastore: Available space (GB):	storage-01-2.1.9.174	
Disk Format Network Mapping Ready to Complete	 Thick Provision Lazy Z Thick Provision Eager Thin Provision 	eroed Zeroed	

Figure 4-21 Disk Format Window



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You must choose Thick Provision Eager Zeroed for vWAAS deployment.

a. Click Next.

Step 23 The Network Mapping window appears (Figure 4-22).

VF Template Details	Map the networks used in this OVF	template to networks in your inventory
eployment Configuration	Source Networks	Destination Networks
lost / Cluster	VM Network	VM Network
	Description:	

Figure 4-22 Network Mapping Window

- a. Choose the required network mapping settings for your system.
- b. Click Next.
- Step 24 The Ready to Complete window appears (Figure 4-23), where you can verify the details of your deployment.

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Deployment Configuration OVF file: http://bistro.cisco.com/index.php Disk Format Download size: 607.7 MB Network Mapping Size on disk: 264.0 GB Ready to Complete Name: vWAAS-200 Folder: WAAS_SJ Deployment Configuration: vWAAS-200 Host/Cluster: 2.1.9.174 Datastore: storage-01-2.1.9.174 Disk provisioning: Thick Provision Eager Zeroed Network Mapping: "VM Network" to "VM Network"	<u>nplate Details</u> nd Location	- When you click Finish, the deployment task will be started. Deployment settings:	
Disk Format Size on disk: 264.0 GB Network Mapping Name: vWAA5-200 Folder: WAA5_5J Deployment Configuration: vWAA5-200 Host/Cluster: 2.1.9.174 Datastore: storage-01-2.1.9.174 Disk provisioning: Thick Provision Eager Zeroed Network Mapping: "VM Network"	<u>nent Configuration</u> Iluster	OVF file:	http://bistro.cisco.com/index.php?dir=vv 607 7 MB
Name: vWAAS-200 Folder: WAAS_50 Deployment Configuration: vWAAS-200 Host/Cluster: 2.1.9.174 Datastore: storage-01-2.1.9.174 Disk provisioning: Thick Provision Eager Zeroed Network Mapping: "VM Network" to "VM Network"	mat	Size on disk:	264.0 GB
Folder: WAA5_SJ Deployment Configuration: vWAA5-200 Host/Cluster: 2.1.9.174 Datastore: storage-01-2.1.9.174 Disk provisioning: Thick Provision Eager Zeroed Network Mapping: "VM Network" to "VM Network"	<u>Network Mapping</u> Ready to Complete	Name:	vWAAS-200
Deployment Configuration: vWAAS-200 Host/Cluster: 2.1.9.174 Datastore: storage-01-2.1.9.174 Disk provisioning: Thick Provision Eager Zeroed Network Mapping: "VM Network" to "VM Network"		Folder:	WAAS_SJ
Host/Cluster: 2.1.9.174 Datastore: storage-01-2.1.9.174 Disk provisioning: Thick Provision Eager Zeroed Network Mapping: "VM Network" to "VM Network"		Deployment Configuration:	vWAA5-200
Datastore: storage-01-2, 1.9, 174 Disk provisioning: Thick Provision Eager Zeroed Network Mapping: "VM Network" to "VM Network"		Host/Cluster:	2.1.9.174
Disk provisioning: Thick Provision Eager Zeroed Network Mapping: "VM Network" to "VM Network"		Datastore:	storage-01-2,1,9,174
Network Mapping: "VM Network" to "VM Network"		Disk provisioning:	Thick Provision Eager Zeroed
		Network Mapping:	"VM Network" to "VM Network"

Figure 4-23 Ready to Complete Window

- a. If the displayed details are the ones you have specified for your deployment, click the **Power on** after deployment check box.
- **b**. To start the deployment task, click **Finish**.
- **Step 25** The Status window appears while the OVA file is being deployed (Figure 4-24) and then shows a completion message after the deployment has completed successfully (Figure 4-25).

igure 4-24	Deployment In	Progress Sta	tus Window
214% Deplo	ying vwAAS-VLM-S	mall-U¥F	
Deploying vW	AAS-vCM-Small-OVF		
Deploying disk Documents\v k	: 2 of 2 from C:\Docum WAAS-vCM-Small-OVF	ents and Settings \vWAAS-vCM-Sr	\Administrator\My nall-OVF-disk2.vmd
			Cancel
43 seconds re	maining		

Figure 4-25 Deployment Completion Status Window

Poployment Completed Successfully	_ 🗆 🗙
Deploying vWAAS-vCM-Small-DVF	
Completed Successfully	
	Close
	8

- a. After deployment is completed, click Close.
- Step 26 Navigate to Home > Inventory > Hosts and Clusters. The Inventory panel now shows the newly deployed device.
- Step 27 Highlight the newly deployed device and open the Console window to display this device (Figure 4-26).



Figure 4-26 Console Window Displaying Newly Deployed Device

Upgrade/Downgrade Guidelines for vWAAS on VMware ESXi

Consider the following guidelines when upgrading or downgrading your WAAS system with vWAAS on VMware ESXi:

- When upgrading vWAAS, do not upgrade more than five vWAAS nodes at the same time on a single UCS box. Upgrading more than five vWAAS nodes at the same time may cause the vWAAS devices to go offline and into diskless mode.
- If the virtual host was created using an OVA file of vWAAS for WAAS Version 5.0 or earlier, and you have upgraded vWAAS within WAAS, you must verify that the SCSI Controller Type is set to VMware Paravirtual. Otherwise, vWAAS will boot with no disk available and will fail to load the specified configuration.

If needed, change the SCSI controller type to VMware Paravirtual by following these steps:

- a. Power down the vWAAS.
- **b.** From the VMware vCenter, navigate to **vSphere Client** > **Edit Settings** > **Hardware**.
- c. Choose SCSI controller 0.
- d. From the Change Type drop-down list, verify that the SCSI Controller Type is set to VMware **Paravirtual**. If this is not the case, choose **VMware Paravirtual**.
- e. Click OK.
- f. Power up the vWAAS, with WAAS Version 6.1.x or later.

