

Installing the OVA

Prerequisites

- Log in to the IP address of a VMware ESXi server running 6.5 and above via a web browser with your user credentials (username and password).
- Ensure that you meet the VMware server machine (VM CPU and memory) requirements as listed below.
 - 24 GB memory
 - 4 vCPUs
 - Hard disk: 450 GB

To install the OVA:



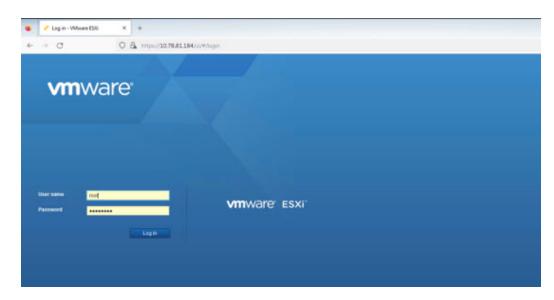
Attention

From IoT FND 4.12 onwards, use the following credentials for SSH access after installing OVA. The existing credentials username/password (root/cisco123) is disabled for 4.12 and later releases:

- Username: fnduser
- Password: C!sco123

See Step 10 for guidelines to reset the default password.

- **Step 1** Log in to the IP address of a VMware ESXi server running 6.5 and above via a web browser with your user credentials (username and password).
 - a) Enter the ESXi IP address in the URL.
 - b) Provide the ESXi root login credentials and click Log In.



Step 2 In the Host page, select **Create/ Register VM**.

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	* Hardware		* Configuration				
	* Hardware Marufacturer	Cisco Bystems Inc	Comparation Image profile	ESX-7.0U3p.20328353-standard (VM	(are inc.)		
	Model	UC8C-C480-85	vSphere HA state	Not configured			
	· B cru	96 CPUs x Intel(R) Xeon(R) Platnum 8210 CPU (§ 2.40CHz	+ vMoton	Dupported			
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	• 🚨 Virtual Kash	7.74 GB used, 119.75 GB capacity	System Information Date/time on heat	Tuesday, Nay 30, 2023, 04:01:26 UTC			
	- Q Networking		Install date	Wednesday, May 17, 2023, 03:56:07 U			
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Step 3 In the New virtual machine window, select **Deploy a virtual machine from an OVF or OVA file** in Select creation type tab and click **Next**.

1 Select creation type 2 Select OVF and VMDK files 3 Select storage	How would you like to create a Virtual Machine?	
4 License agreements 5 Deployment options 6 Additional settings	Create a new virtual machine Deploy a virtual machine from an OVF or OVA file	This option guides you through the process of creating a virtual machine from an OVF and VMDK files.
7 Ready to complete	Register an existing virtual machine	
vm ware [*]		

Step 4 In the Select OVF and VMDK files tab, provide a name for the virtual machine and browse to an OVF package from the internet or a file accessible from your computer (for example, iot-fnd-4.10.0-40.ova). Click **Next**.

New virtual machine - FND-pgOVA-	4.10.0-40
 1 Select creation type 2 Select OVF and VMDK files 3 Select storage 	Select OVF and VMDK files Select the OVF and VMDK files or OVA for the VM you would like to deploy
4 License agreements	Enter a name for the virtual machine.
5 Deployment options 6 Additional settings	FND-pgOVA-4.10.0-40
7 Ready to complete	Virtual machine names can contain up to 80 characters and they must be unique within each ES30 instance.
vmware	× 🔤 lot-find-4, 10.0-40.ova
	Back Next Finish Cancel

Step 5 Select a storage location for the virtual machines from the listed options (example - Datastore-2).

1 Select creation type 2 Select OVF and VMDK files 3 Select storage	Select storage Select the storage type and datas	tore									
4 License agreements 5 Deployment options 6 Additional settings 7 Ready to complete	Standard Pecsistent Memo		configuratio	n file	es and all o	fits	virtual disi	S .			
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	datastore1 (4)		1.69 TB		1.58 TB		VMFS6		Supported	Single	
	Dattastore-2		28.2 TB		25.78 TB		VMFS6		Supported	Single	
										28	ems

- **Step 6** After selecting the data store, select the provisioning type and enable the **Power on automatically** option. This ensures to power on the virtual machine once the deployment process is complete. Click **Next**.
 - Thick Provisioning Absolute reservation on the disk space. For the IoT FND OVA deployment, the disk space required is 600 GB on the ESXi server.
 - Thin Provisioning The disk space grows on demand. For the IoT FND OVA deployment, the disk space is approximately 50 GB initially and the disk space occupied by VM will grow as per the scale of deployment.
 - **Note** If the selected storage location does not have sufficient storage for the largest file installation option, a message displays noting insufficient storage. If the warning message appears, select another storage resource with greater capacity and click **Next**.

New virtual machine - FND-pgOVA	-4.10.0-40	
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4 Deployment options 5 Ready to complete	Network mappings	VM Network VM Network v
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Step 7 Do a final review of the Ready to Complete window. If you do not want to change any settings, click Finish.

Note If you see the following warning message while deployment, then cancel the upload, disconnect the Esxi from vCenter Server (Actions > Disconnect from vCenter Server) and then re-upload OVA. The upload will be successful.

"Failed: Access to resource settings on the host is restricted to the server that is managing it 'vCenter Server IP'"

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The virtual machine deployment is initiated. After completion of the install, the "Completed successfully" message appears in the Recent tasks pane at the bottom of the install window.

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Step 8 Click Virtual Machines in the left pane and select the newly deployed VM.

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Step 9 The deployed VM gets listed in the left pane. Select the IoT FND machine name.

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Step 10 Click **Console** and login with root/cisco123 once the OS is up. Once you enter the default password, you are prompted to reset your password.

Important From IoT FND release 4.12 onwards:

- The default root user password is C!sco123.
- The following conditions are applicable to reset the default password.
 - The password must be at least 8 characters in length
 - The password must have at least 1 uppercase character
 - The password must have at least 1 lowercase character
 - The password must have at least 1 special character
 - The password must have at least 1 digit
 - The password cannot be the same as any of the previous 5 passwords used
- **Step 11** Reset the default root password. After you complete the password reset, IoT FND is fully deployed. From FND 4.12 release, the conditions mentioned in Step 10 are applicable to reset the default password.
- **Step 12** Once logged in, navigate to **Applications > System Tools > Settings > Network**.
- **Step 13** Click the cog icon under Wired, navigate to IPv4 tab to assign a static IP address or set up a DHCP server in the network.
 - Under IPv4 tab, select the method as Manual and provide the IPv4 address as below and click Apply.
 - Set up a valid, reachable working DNS server on the Host VM. (mandatory) Use this IP address to access the FND GUI.

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- Important Follow the same steps for TPS OVA installation as well. In order to upgrade the TPS OVA, delete the existing TPS and reinstall the TPS OVA iot-tps-version number.ova with the updated version number.
- **Step 14** Open a terminal window, and set up Health Monitoring for the Fog Director Container from FND.

[root@iot-fnd ~]# cd /opt/monitor/

```
[[root@iot-fnd monitor]# ./setup.sh
Setup health metrics monitor for App Management Servers
[Enter FND Username: root
[Enter FND Password:
Successfully configured health metrics monitor for App Management Servers
```

After completing these steps, IoT FND starts monitoring the Fog Director container on the **ADMIN** > **SERVERS** page.