



Deploying FortiTester-VM on OCI



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About FortiTester-VM on OCI

Overview

Welcome, and thank you for selecting Fortinet products for your testing environment.

FortiTester™ appliances offer enterprises and service providers a cost-effective solution for performance testing and validating their network security infrastructure and services, providing a comprehensive range of application test cases to evaluate equipment and right-size infrastructure. All test functionality is included in one simple device-based license.

FortiTester provides powerful yet easy-to-use test cases that simulate many applications and a case history browser for simple analysis. It enables you to establish performance standards and run audits to validate they continue to be met. The virtual appliance version provides an ideal tester for NFV and SDN environments.

Instance Type Support

From FortiTester 3.7.1, FortiTester for OCI can be deployed as "Virtual Machine," and supported instances are the "Standard" types. To ensure high performance and use, it's recommended to deploy FortiTester on the machine types with VM.Standard2.4. Also, you can deploy FortiTester on machine types with VM.Standard2.16, VM.Standard2.24, and VM.Standard2.4. See Oracle Cloud Infrastructure Documentation for details.

Deploying FortiTester-VM instances

The following topics introduces how to deploy FortiTester-VM on OCI.

Obtaining the Deployment Image

- 1. Go to the Fortinet support site (https://support.fortinet.com) and log in.
- 2. Navigate to Download > Firmware Images.
- 3. Under Select Product, select FortiTester, then select the firmware version directory.
- **4.** Download the image file **FTS_VM_OCI_BYOL-vxxx-buildxxxx-FORTINET.out.oci.zip**, where vxxxx is the major version number, and buildxxxx is the build number.

Creating the VCN and public subnets

To deploy the FortiTester-VM instance in a new virtual cloud network, follow steps below:

- 1. On the OCI Console, click Create a virtual cloud network.
- 2. For the **NAME** field, enter a VCN name, for example, fts_mgmt_vcn.
- 3. Select CREATE VIRTUAL CLOUD NETWORK PLUS RELATED RESOURCES. This allows you to create the Internet gateway, routing table, and subnet all together using Oracle default settings. You can also select CREATE VIRTUAL CLOUD NETWORK ONLY to create each resource separately accordingly. Here, we take CREATE VIRTUAL CLOUD NETWORK PLUS RELATED RESOURCES as an example.
- 4. Click Create Virtual Cloud Network.
- **5.** Click **Close** from the pop-up window.
- 6. Click Create Subnet from the Virtual Cloud Network Details page for the management subnet.
 - For the **NAME** field, enter a subnet name, for example, fts_mgmt; for **SUBNET ACCESS**, select **PUBLIC SUBNET**. For other options, follow the default ones.
 - For SECURITY LIST, you can select Default Security List for fts_mgmt.
 - a. Edit the default security list
 Go to Resources > Security Lists, click Default Security List for fts_mgmt. Click Add
 Ingress Rules to add a rule to allow TCP port 443.
 - b. Create a new security listGo to Resources > Security Lists > Create Security List.
- 7. Click Create Subnet.
- 8. Click Create Subnet from the Virtual Cloud Network Details page for the traffic subnet.
 - For the NAME field, enter a subnet name, for example, fts_traffic; for SUBNET ACCESS, select PRIVATE SUBNET. For other options, follow the default ones.
 - For SECURITY LIST, you can select Default Security List for fts_traffic.
 - a. Edit the default security list
 Go to Resources > Security Lists, click Default Security List for traffic. Click Add Ingress

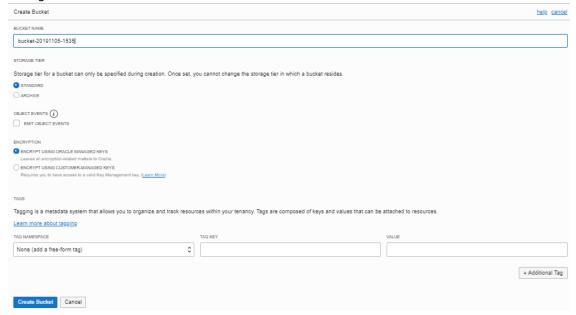
Rules to add a rule to allow all traffic.

- b. Create a new security listGo to Resources > Security Lists > Create Security List.
- 9. Click Create Subnet.

Creating a FortiTester-VM instance

To create a FortiTester-VM instance by importing an image file, follow steps below:

- 1. Obtain the deployment image file image.out.oci.zip, and unzip the file (ftsos.oci).
- 2. On the OCI Console, create a storage bucket.
 - · Click Store data.
 - · Configure the bucket as below.



- Click the created bucket, and update the deployment image file ftsos.oci by clicking Upload Objects.
- Once the file is uploaded, click Pre-Authenticated Requests.

For **NAME**, you can use the default one or specify a name.

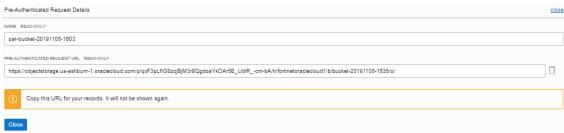
For PRE-AUTHENTICATED REQUEST TARGET, select OBJECT.

For OBJECT NAME, enter the object name you have created.

For ACCESS TYPE, use the default type.

Click Create Pre-Authenticated Request.

Note down the URL below.



- 3. Import the image.
 - Go to Compute > Custom Images. Click Import Image.
 - For the OBJECT STORAGE URL field, enter the URL link you have noted in last step; for IMAGE TYPE, select OCI.
 - Click Import Image.
 - Wait until the IMPORTING... status changes to AVAILABLE.
- 4. Create the FortiTester-VM instance.
 - For the newly imported image, click **Create Instance**.
 - Enter a name to identify the instance;

for **Availability Domain**, select the desired domain;

for Instance Type, select Virtual Machine;

for **Instance Shape**, select Standard2 instance families such as VM.Standard2.4, VM.Standard2.8, VM.Standard2.16, and VM.Standard2.24.

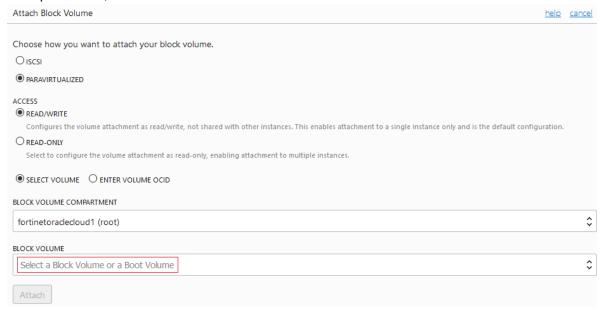
for Virtual cloud network, select the VCN to launch the instance.

for **Subnet** field, select a subnet on the Internet-facing side of the network.

- · Click Create.
- Wait until the PROVISIONING... status changes to RUNNING. You can also check the FortiTester's public IP address in this screen once it becomes available.

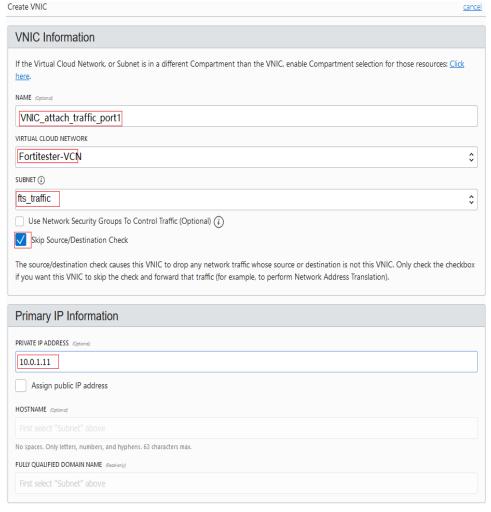
Attaching storage to the FortiTester-VM

- 1. Go to Block Storage > Block Volumes > Create Block Volume.
- **2.** Enter a unique name for the block volume, select an AVAILABILITY DOMAIN, and specify the size to around 50 GB.
- 3. Click Create Block Volume. This provisions the volume.
- 4. Once provisioned, return to the FortiTester-VM instance. Click Attach Block Volume.



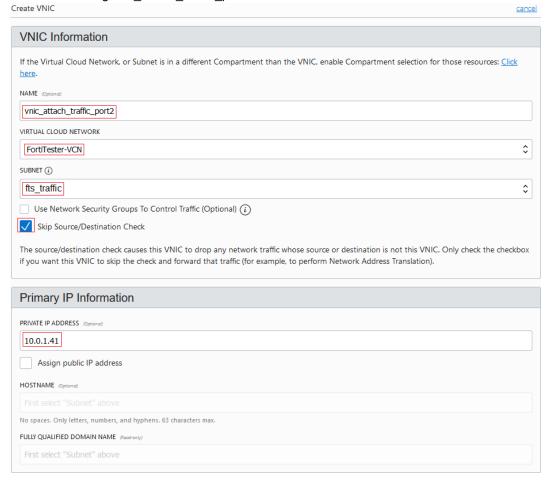
Attaching traffic VNICs to FortiTester-VM

- 1. Go to **Compute > Instances**, click the instance you have created.
- 2. Go to Resources > Attached VNICs.
- 3. Click Create VNIC to create for example, vnic_attach_traffic_port1.



4. Click Create VNIC.

5. Continue creating vnic_attach_traffic_port2.



- 6. Go to Compute > Instances, click the instance created.
- 7. On Instance Details page, click Reboot to reboot the created instance.

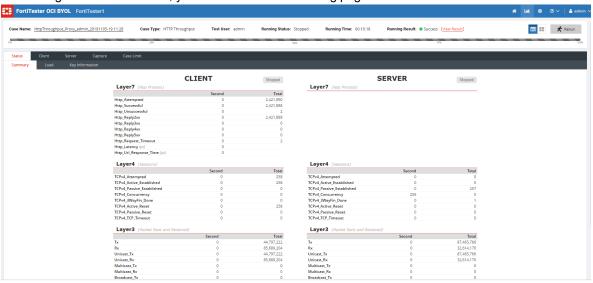
Accessing the FortiTester-VM

- 1. In the FortiTester-VM instance, find the public IP address.
- 2. Enter the public IP address of the FortiTester-VM instance in your browser.
- **3.** Log in with the default username admin, and no password is required. For the first login, the system will prompt to set a password.

Creating and running test case

Create and run a test case to verify the IP address configurations are correct.

- 1. Go to Cases > Performance Testing > HTTP > CPS.
- 2. Click Add to display the Select case options dialog box.
- 3. Configure the network settings.
- 4. Click **OK** to continue.
- **5.** Configure the test case options.
- Click Start to run the test case.If all configurations are correct, you can see the case running page.







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