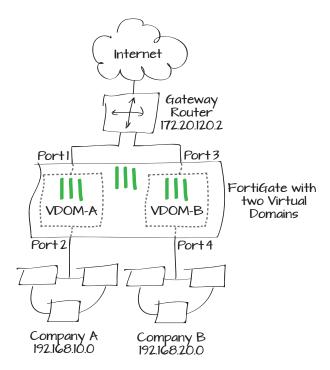
# Using VDOMs to host two FortiOS instances on a single FortiGate unit

Virtual Domains (VDOMs) can be used to divide a single FortiGate unit into two or more virtual instances of FortiOS that function as independent FortiGate units. This example simulates an ISP that provides Company A and Company B with distinct Internet services. Each company has its own VDOM, IP address, and internal network.

- 1. Switching to VDOM mode and creating two VDOMS
- 2. Assigning interfaces to each VDOM
- 3. Creating administrators for each VDOM
- 4. Creating a basic configuration for VDOM-A
- 5. Creating a basic configuration for VDOM-B
- 6. Connecting the gateway router
- 7. Results



# Switching to VDOM mode and creating two VDOMS

Go to System > Dashboard > Status.

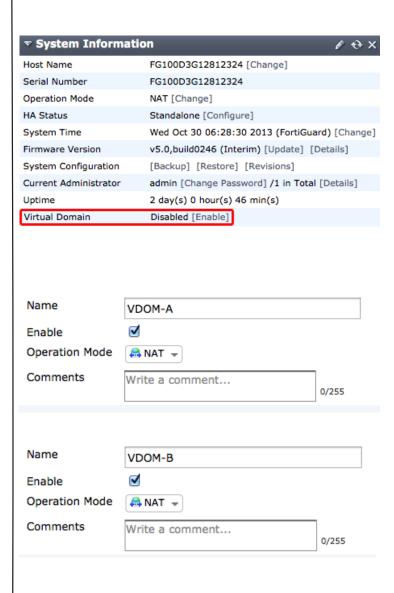
In the **System Information** widget, find **Virtual Domain** and select **Enable**.



You will be required to re-login after enabling **Virtual Domain** due to the GUI menu options changing.

Go to Global > VDOM > VDOM.

Create two VDOMS: VDOM-A and VDOM-B. Leave both VDOMs as **Enabled**, with **Operation Mode** set to **NAT**.



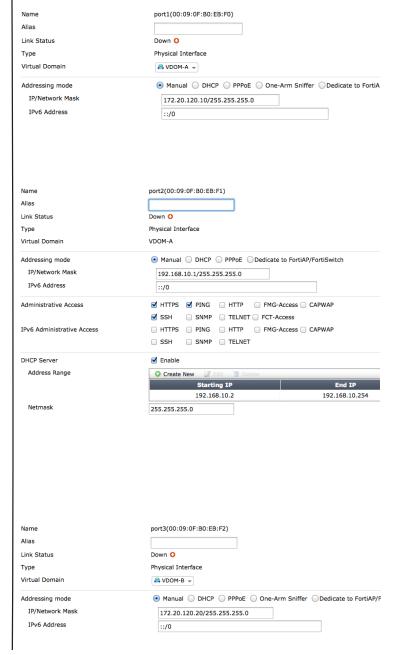
#### Assigning interfaces to each VDOM

Go to Global > Network > Interfaces.

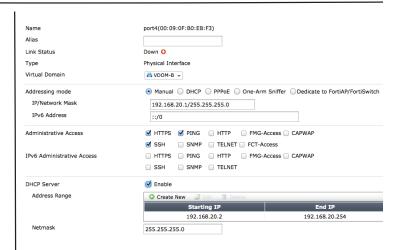
Edit **port1** and add it to VDOM-A. Set **Addressing Mode** to **Manual** and assign an **IP/Network Mask** to the interface (in the example, 172.20.120.10/255.255.255.0).

Edit port2 and add it to VDOM-A. Set Addressing Mode to Manual, assign an IP/Network Mask to the interface (in the example, 192.168.10.1/255.255.255.0), and set Administrative Access to HTTPS, PING, and SSH. Enable DHCP Server.

Edit **port3** and add it to VDOM-B. Set **Addressing Mode** to **Manual** and assign an **IP/Network Mask** to the interface (in the example, 172.20.120.20/255.255.255.0).



Edit **port4** and add it to VDOM-B. Set **Addressing Mode** to **Manual**, assign an **IP/Network Mask** to the interface (in the example, 192.168.20.1/255.255.255.0), and set **Administrative Access** to **HTTPS**, **PING**, and **SSH**. Enable **DHCP Server**.



#### Creating administrators for each VDOM

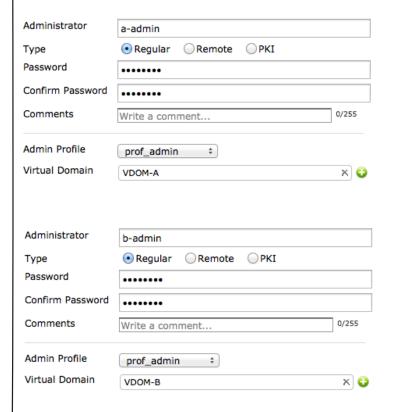
Go to Global > Admin > Administrators.

Create an administrator for VDOM-A, called *a-admin*. Set **Type** to **Regular**, set a password, and set **Admin Profile** to **prof\_admin**.

Create an administrator for VDOM-B, called *b-admin*. Set **Type** to **Regular**, set a password, and set **Admin Profile** to **prof**\_ **admin**.



Make sure to remove the **root** VDOM from both administrator accounts.



### Creating a basic configuration for VDOM-A

Go to Virtual Domains and select VDOM-A.

Go to Router > Static > Static Routes.

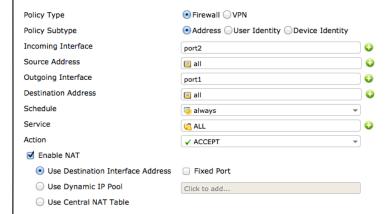
Add a default route for the VDOM. Set **Destination IP/Mask** to 0.0.0.0/0.0.0.0, set **Device** to **port1**, and set **Gateway** to the IP of the gateway router (in the example, 172.20.120.2).

Connect a PC to port2. Using HTTPS protocol, browse to the IP set for port2 and log into VDOM-A using the a-admin account (in the example, https://192.168.10.1).

Go to Policy > Policy > Policy.

Create a policy to allow Internet access. Set Incoming Interface to port2 and Outgoing Interface to port1. Select Enable NAT.





## Creating a basic configuration for VDOM-B

If you have logged out of the FortiGate unit, log back in.

Go to Virtual Domains and select VDOM-B. Go to Router > Static > Static Routes.

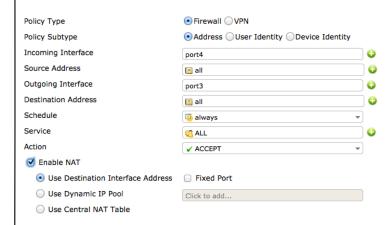
Add a default route for the VDOM. Set **Destination IP/Mask** to 0.0.0.0/0.0.0.0, set **Device** to **port3**, and set **Gateway** to the IP of the gateway router (in the example, 172.20.120.2).

Connect a PC to port4. Using HTTPS protocol, browse to the IP set for port2 and log into VDOM-B using the b-admin account (in the example, https://192.168.20.1).

Go to Policy > Policy > Policy.

Create a policy to allow Internet access. Set Incoming Interface to port4 and Outgoing Interface to port3. Select Enable NAT.

Destination IP/Mask	0.0.0.0/0.0.0
Device	port3 ÷
Gateway	172.20.120.2



### Connecting the gateway router

Connect port1 and port3 of the FortiGate unit to the gateway router to allow Internet traffic to flow.



Connect to the Internet from the company A and company B networks and then log into the FortiGate unit.

Go to **Virtual Domains** and select **VDOM-A**. Go to **Policy > Policy > Monitor** to view the sessions being processed on VDOM-A.

Go to **Virtual Domains** and select **VDOM-B**. Go to **Policy > Policy > Monitor** to view the sessions being processed on VDOM-B.

