How to Deploy an F-Series Firewall in Microsoft Azure using Azure Portal and ARM

https://campus.barracuda.com/doc/46895302/

The Barracuda NextGen Firewall F-Series for Microsoft Azure can be deployed as a virtual machine in the Microsoft Azure cloud. You can choose between the following images in the Azure Marketplace:

- **Barracuda NextGen Firewall F-Series (BYOL)** – These images use licenses purchased directly from Barracuda Networks. Barracuda Networks offers a 30-day evaluation license.
- **Barracuda NextGen Firewall F-Series (Hourly)** – These images do not need to be licensed separately. Licensing fees are included in the hourly price of the Instance. All charges are billed directly through your Microsoft Azure account.
- **Barracuda NextGen Control Center for Microsoft Azure (BYOL)** – These images use licenses purchased directly from Barracuda Networks. Barracuda Networks offers a 30-day evaluation license.

Depending on your deployment you may want to use more than one resource groups to be able to maintain the deployed VMs more easily.

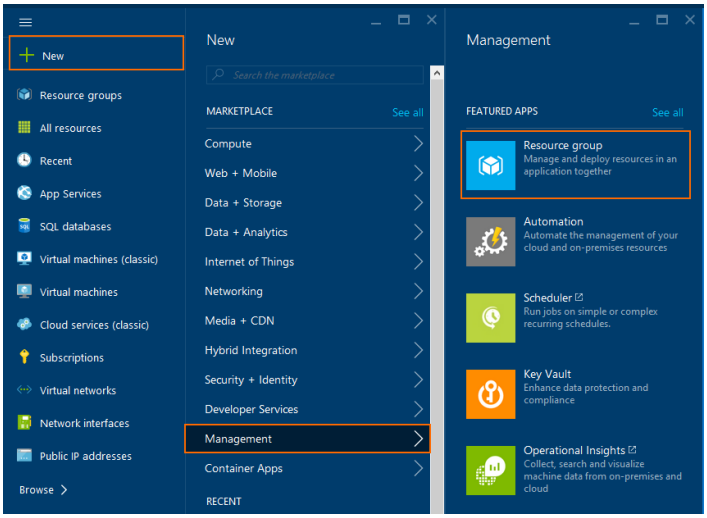
In this article:

Before You Begin

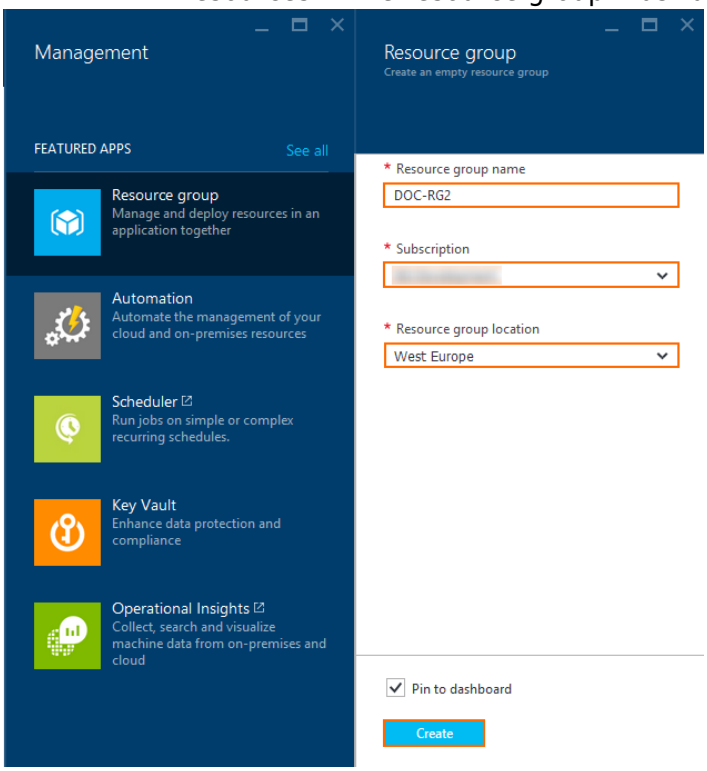
- Create a Microsoft Azure account.
- (BYOL images only) Purchase a Barracuda NextGen Firewall F-Series or Control Center for Microsoft Azure license, or register to receive an evaluation license from the Barracuda Networks Evaluation page.

Step 1. Create a Resource Group

1. Go to the Azure Portal: https://portal.azure.com
2. In the upper left-hand corner, click **NEW**.
3. In the **NEW** column, click **Management**.
4. In the **Management** column, click **Resource Group**.



5. In the **Resource Group** column, enter:
   - **Resource group name** – Enter a unique name for your resource group.
   - **Subscription** – Select the Azure Subscription.
   - **Resource group location** – Select the Azure datacenter where you want to deploy your VM. All resources in the resource group must be in the same location.

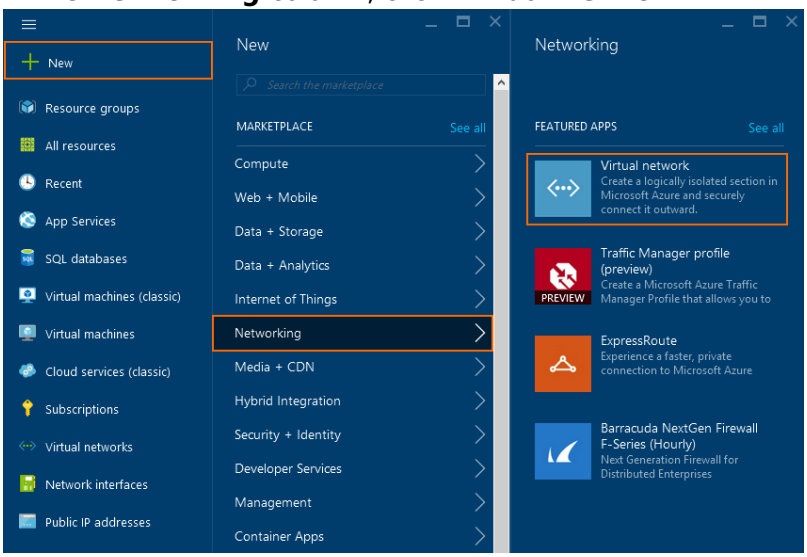


6. Click **Create**.

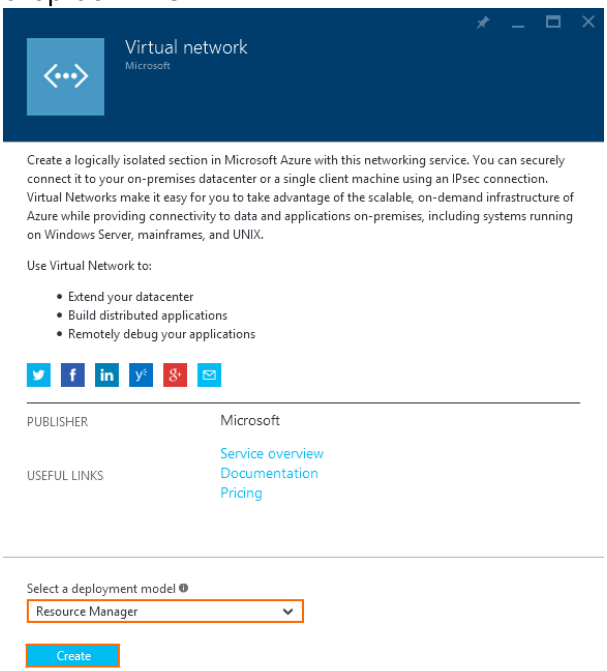
Step 2. Create a Virtual Network

1. Go to the Azure Portal: https://portal.azure.com
2. In the upper left-hand corner, click **NEW**.

3. In the **NEW** column, click **Networking**.
4. In the **Networking** column, click **Virtual network**.

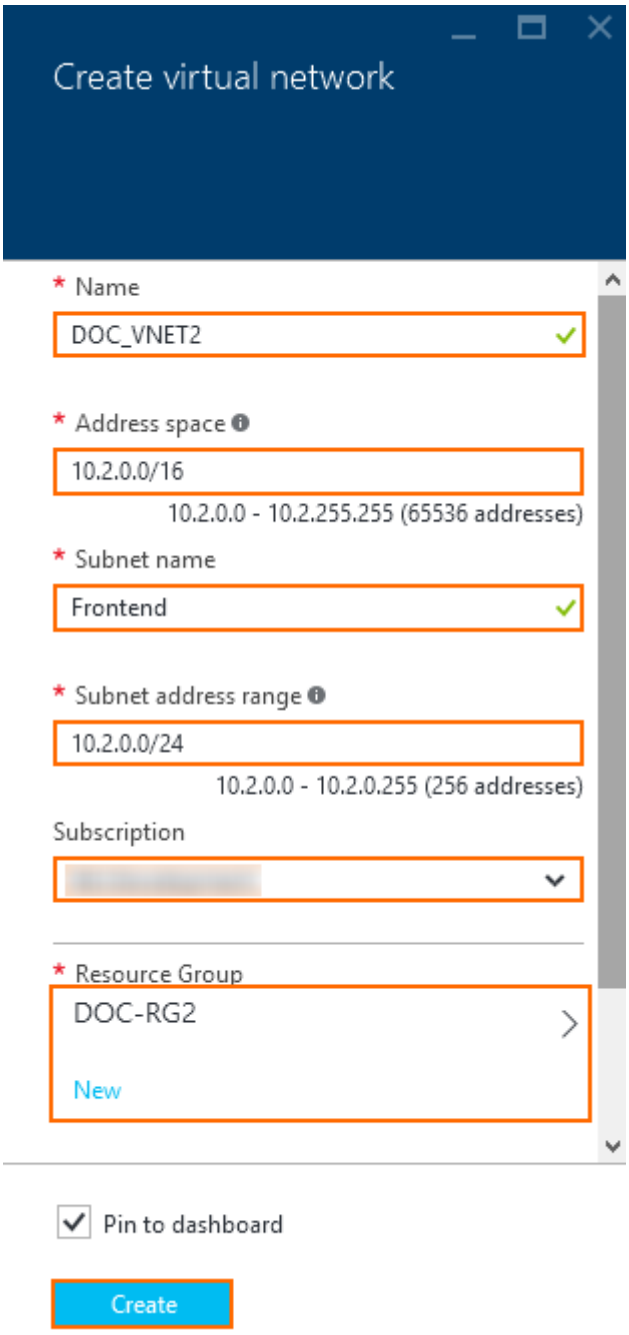


5. In the **Virtual network** column, select **Resource Manager** from the **deployment model** drop-down list.



6. Click **Create**.
7. In the **Create virtual network** column, enter:
   - **Name** – Enter a unique name for the virtual network.
   - **Address space** – Use a large network not overlapping with your on-premise networks.
   - **Subnet name** – Enter a name for the first subnet in the virtual network. E.g., `Frontend`
   - **Subnet address range** – Enter the network for the subnet. It must be a subnet of the network entered as the address space.
   - **Subscription** – Select the Azure subscription.
   - **Resource Group** – Click **Select Existing** and select the resource group created in step 1.

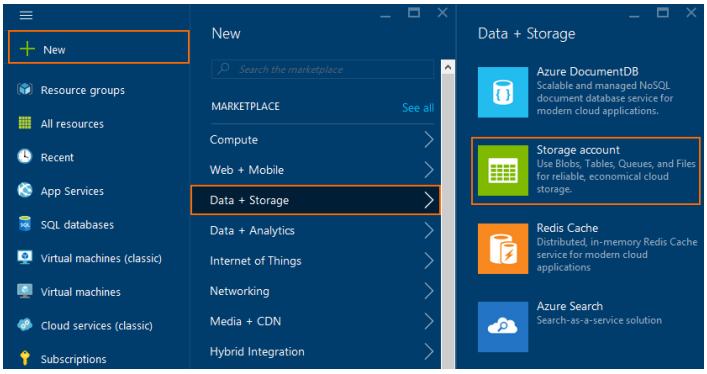
- **Location** – Select the location the resource group is in.



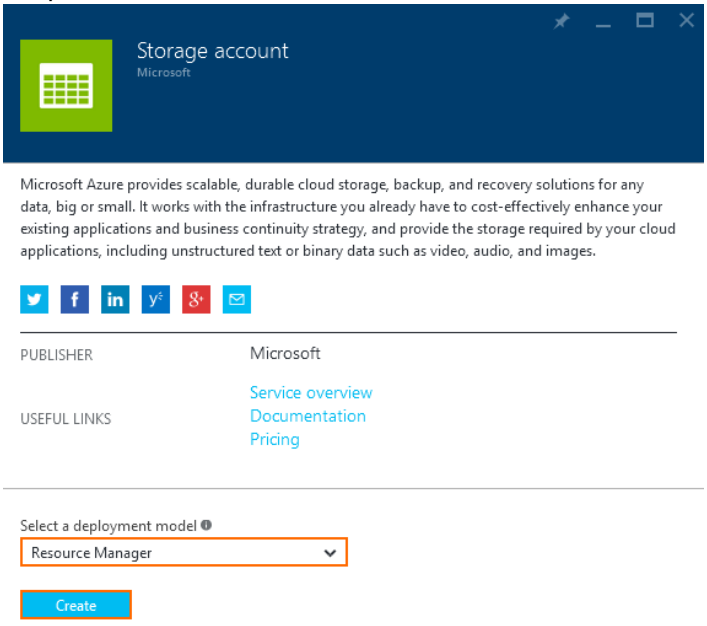
8. Click **Create**.

Step 3. Create a Storage Account

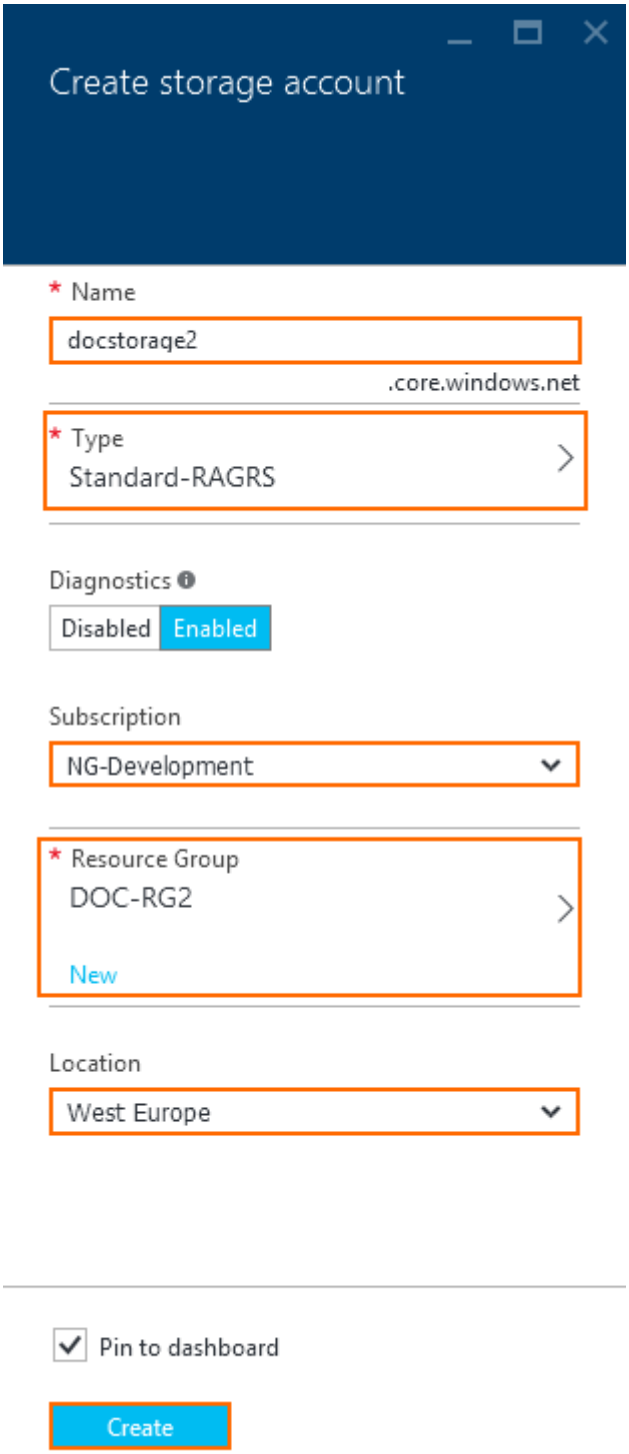
1. Go to the Azure Portal: https://portal.azure.com
2. In the upper left-hand corner, click **NEW**.
3. In the **NEW** column, click **Data + Storage**.
4. In the **Data + Storage** column, click **Storage account**.



5. In the **Storage account** column, select **Resource Manager** from the **deployment model** drop-down list.



6. Click **Create**.
7. In the **Create storage account** column, enter:
   - **Name** – Enter a unique storage account name.
   - **Type** – Select the storage account type and how it is replicated.
   - **Subscription** – Select the Azure subscription.
   - **Resource Group** – Click **Select Existing** and select the resource group created in step 1.
   - **Location** – Select the location the resource group is in.

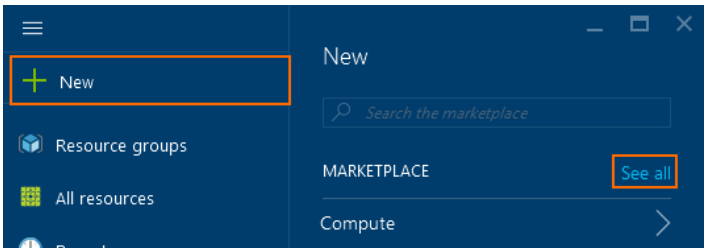


8. Click **Create**.

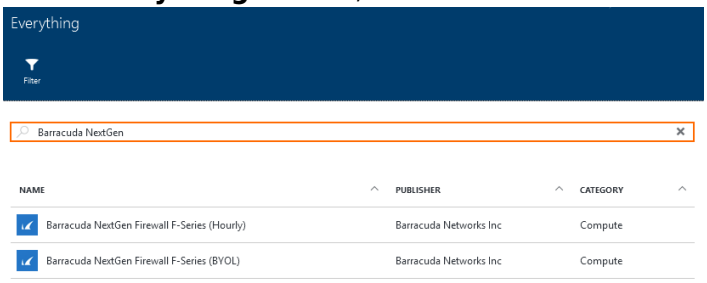
Step 4. Deploy the Barracuda NextGen Firewall F-Series VM

1. Go to the Azure Portal: https://portal.azure.com
2. In the upper left-hand corner, click **NEW**.

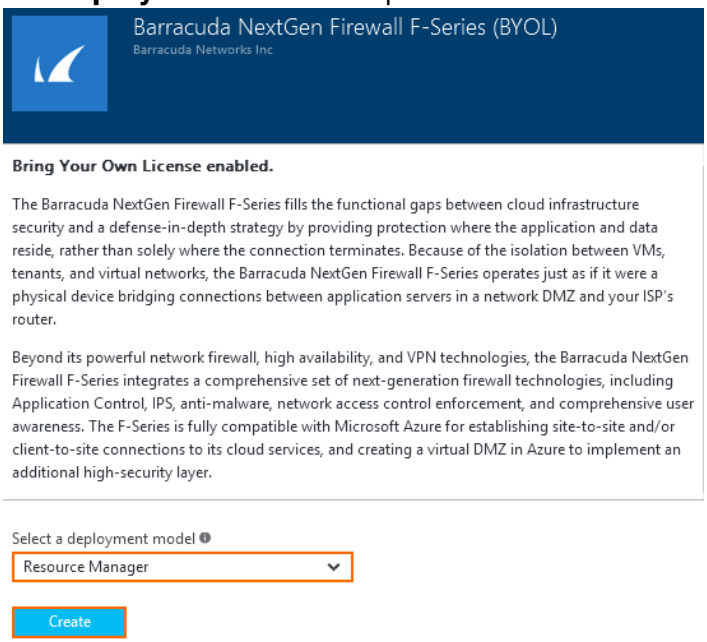
3. In the **NEW** column, next to **MARKETPLACE** click **See all** link.



4. In the **Everything** column, search for `Barracuda NextGen.`

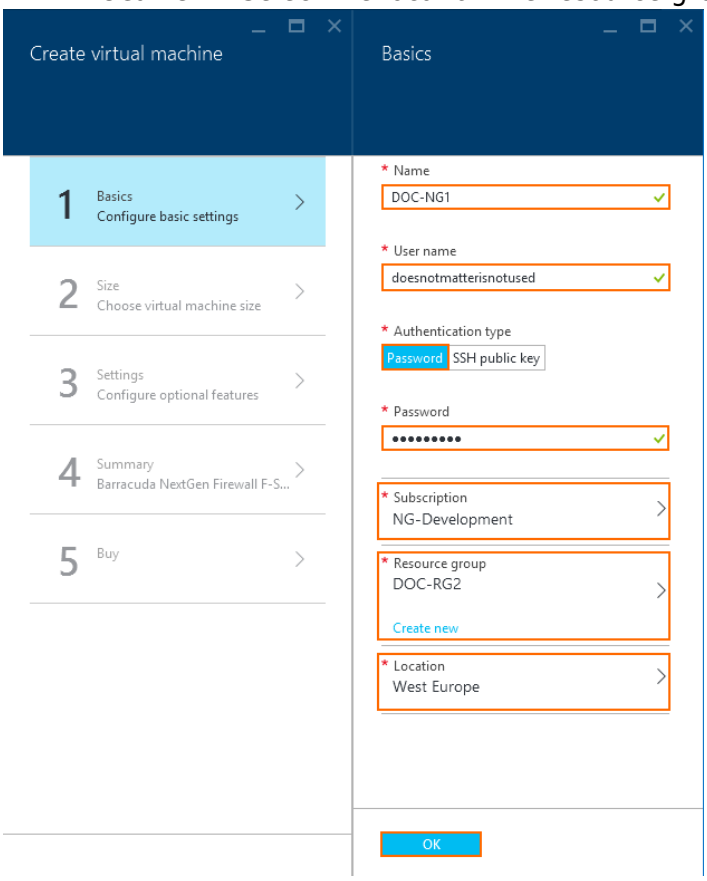


5. Select the image from the list:
   - **Barracuda NextGen Firewall F-Series (BYOL)**
   - **Barracuda NextGen Firewall F-Series (Hourly)**
   - **Barracuda NextGen Control Center for Microsoft Azure (BYOL)**
6. In the **Barracuda NextGen** column for the selected image, select **Resource Manager** from the **deployment model** drop-down list.

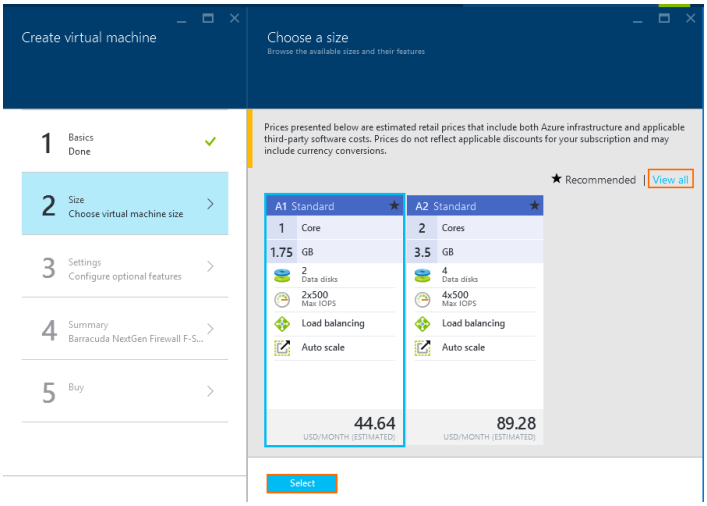


7. Click **Create**.
8. In the **Basics** column, configure:
   - **Name** – Enter the name of the Barracuda NextGen VM.
   - **User name** – Enter a placeholder username to satisfy the Azure input validation. This username is not used.
   - **Authentication Type** – Select **Password**.
   - **Password** – Enter the root password.

- **Subscription** – Select the Azure subscription.
- **Resource Group** – Click **Select Existing** and select the resource group created in step 1.
- **Location** – Select the location the resource group is in.

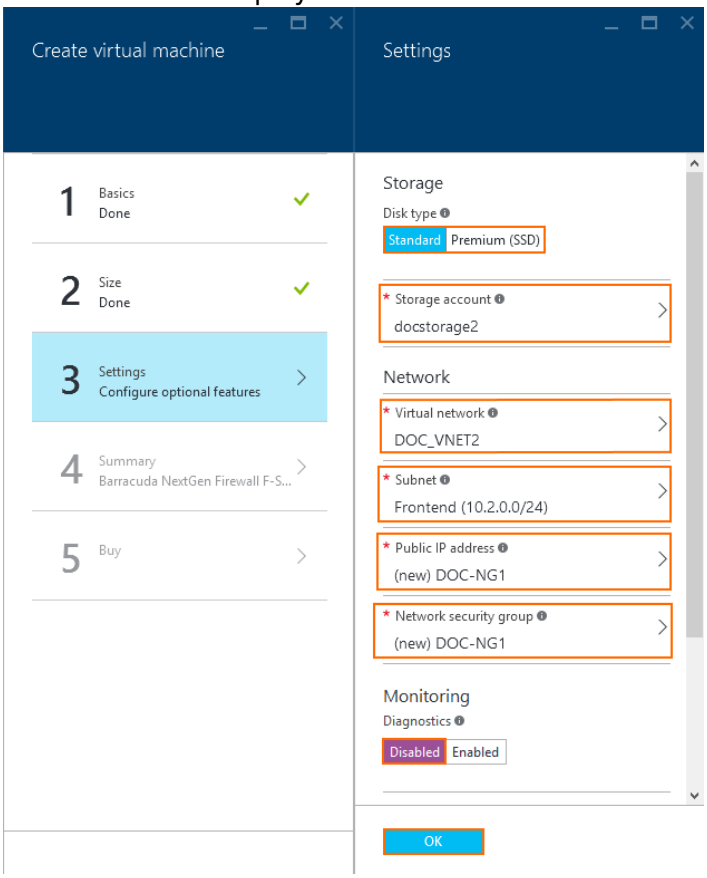


9. Click **OK**.
10. In the **Choose a size** column, select the instance size. Click **View all** to select from the full Instance list.

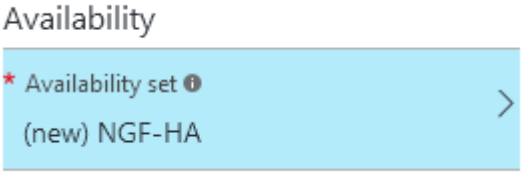


11. Click **Select**.
12. In the **Settings** column, enter the storage, network, and monitoring settings:
    - **Disk type** – Select **standard** for magnetic disks or **Premium (SSD)** for faster SSD-based storage.

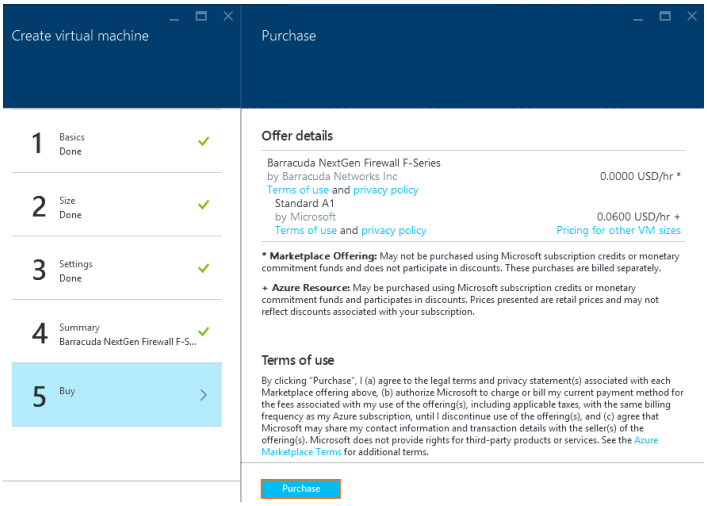
- **Storage account** – Select the storage account created in step 3.
- **Virtual network** – Select the virtual network created in step 2.
- **Subnet** – Select the Subnet created in step 2. To use Azure user defined routing, verify that the firewall is not in the same subnet as the backend VMs.
- **Public IP address** – Select a public IP address the VM is reachable through.
- (optional) **Network security group** – Using a network security group is optional. Click and select **none**, or use the default included with the VM.
- **Diagnostics** – Select **Disabled**. Monitoring is not supported by the F-Series Firewall and cause the deployment to time out.



13. (HA Cluster only) In the **Create virtual network** column, add the VM to an **Availability** Set:
    - **Availability set** – Create a new availability set, or add to an existing availability set.

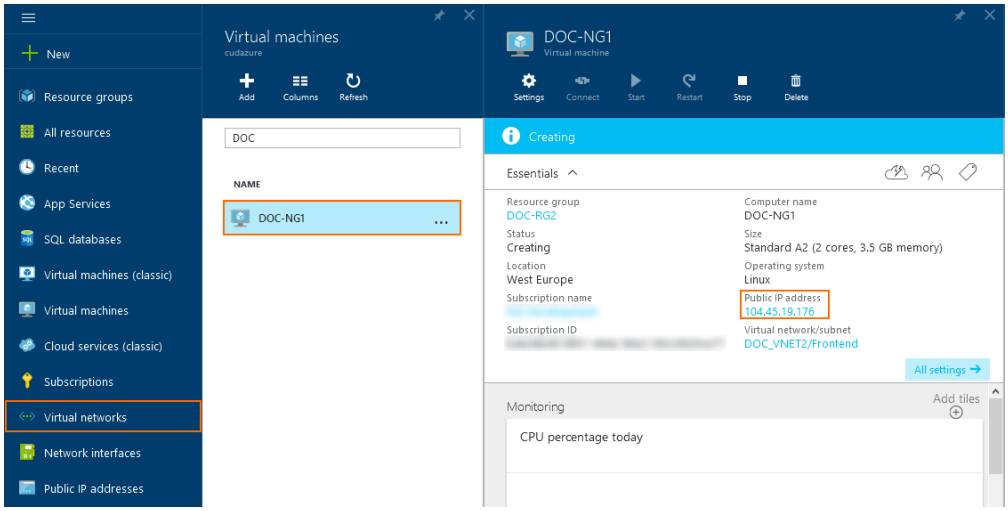


14. Click **OK**.



15. In the **Purchase** column, click **Purchase**.

Wait for Microsoft Azure to finish the deployment of your Barracuda NextGen Firewall F-Series or Barracuda NextGen Control Center. Go to **Virtual machines**, click on the NextGen Firewall VM, and locate the **Public IP address** used to connect to your firewall.



Next Steps

Configure a user defined routing table for the backend VMs to send traffic through the firewall.

For more information, see How to Configure Azure Route Tables (UDR) using Azure Portal and ARM.

Figures

1. azure_deploy_single_ui_01.png
2. azure_deploy_single_ui_02.png
3. azure_deploy_single_ui_03.png
4. azure_deploy_single_ui_04.png
5. azure_deploy_single_ui_05.png
6. azure_deploy_single_ui_06.png
7. azure_deploy_single_ui_07.png
8. azure_deploy_single_ui_08.png
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