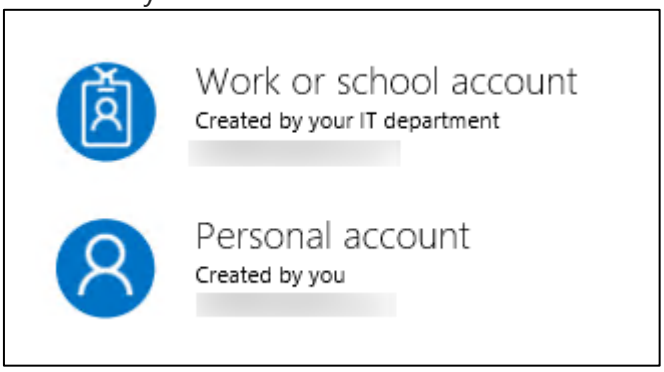
Creating an Azure VM in a Virtual Network

Lab Overview

In this lab, you will create a virtual network that will be used for several of the hands-on labs in this course. You will then create a virtual machine and specify the virtual network configuration and the availability set configuration along with storage for the virtual machine.

Exercise 1: Login to the Azure Management Portal

1. From within the RDP session (**LABVM**), open Internet Explorer and navigate to https://portal.azure.com and authenticate with your Organization or Microsoft Account by selected the correct link.



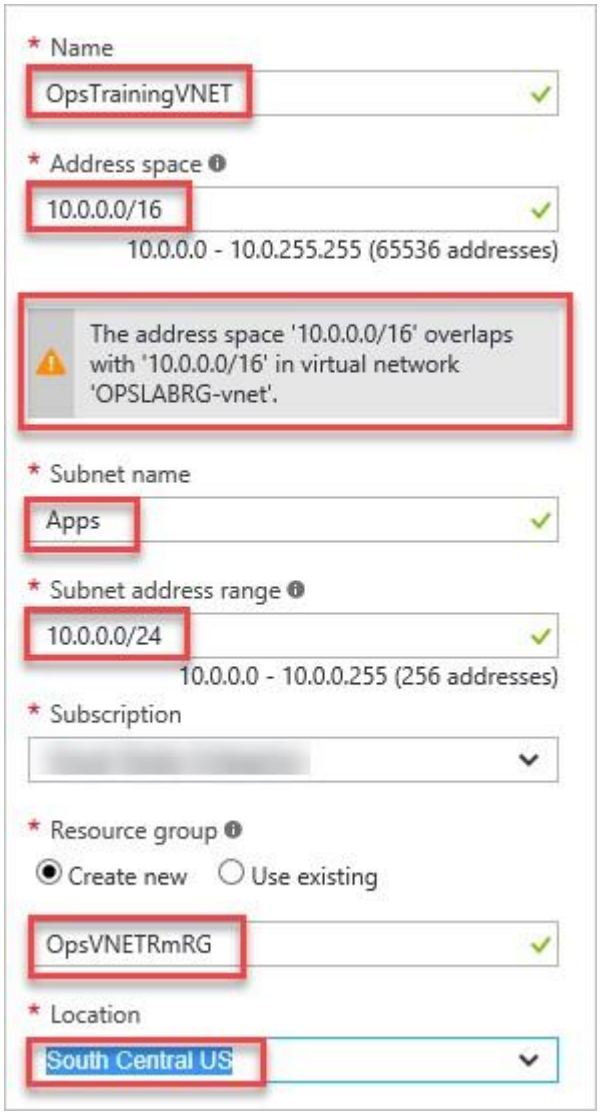
Exercise 2: Create an Azure Virtual Network

1. Click **New**, **Networking**, and then click **Virtual Network**.

2. Leave the deployment model at **Resource Manager** and click **Create**.

3. Specify the following configuration:

- Name: **OpsTrainingVNET**
- Address space: **10.0.0.0/16**
- Subnet name: **Apps**
- Subnet address range: **10.0.0.0/24**
- Resource Group: **OpsVNETRmRG**
- Location: **Select a region different than the one you used for the lab virtual machine.**

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You may see a warning like this when creating the virtual
network. This is just letting you know that you cannot connect
these two virtual networks later using a site-to-site or
ExpressRoute connection because the address range overlaps.
You can ignore this warning.
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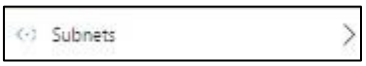
4. Check the box **Pin to dashboard** and click **Create** to create the virtual network.

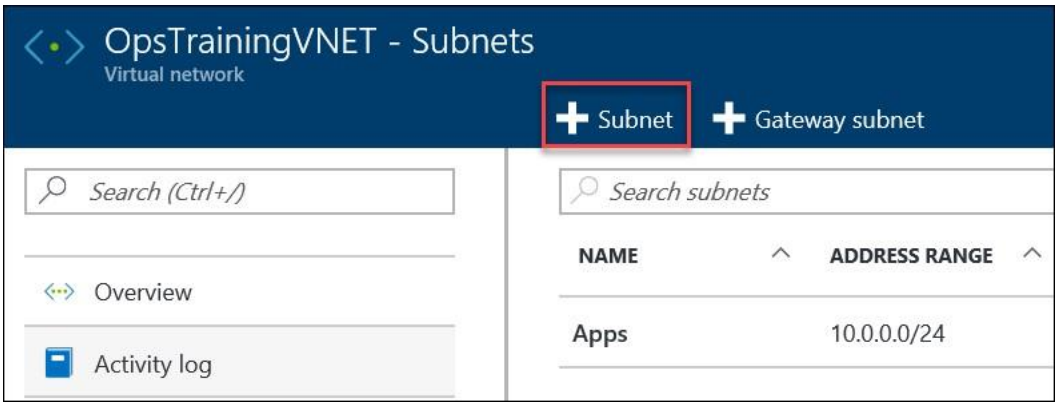
Exercise 3: Update the Virtual Network

1. Click the **OpsTrainingVNET** tile to open the virtual network.

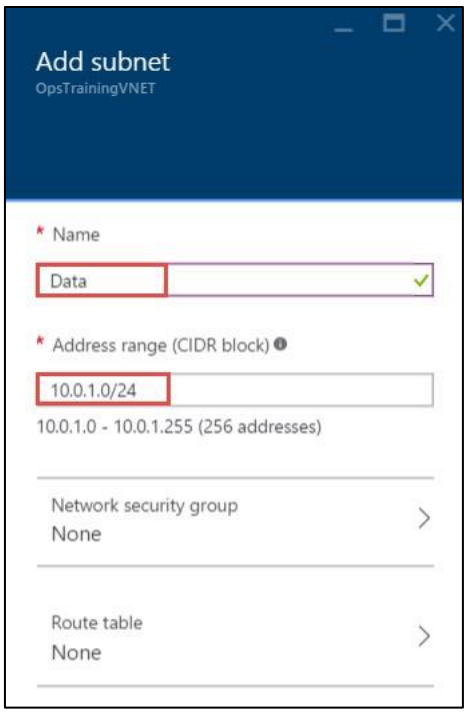
2. Click the **Subnets** tile on the virtual network configuration blade.



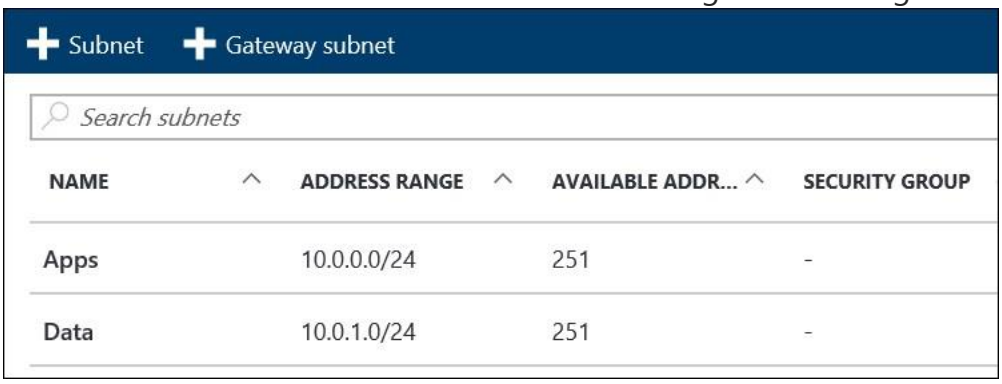
3. Click **Subnet +**



4. Specify the following configuration on the new subnet and click **OK**.
    a. Name: **Data**
    b. Address Space: **10.0.1.0/24**

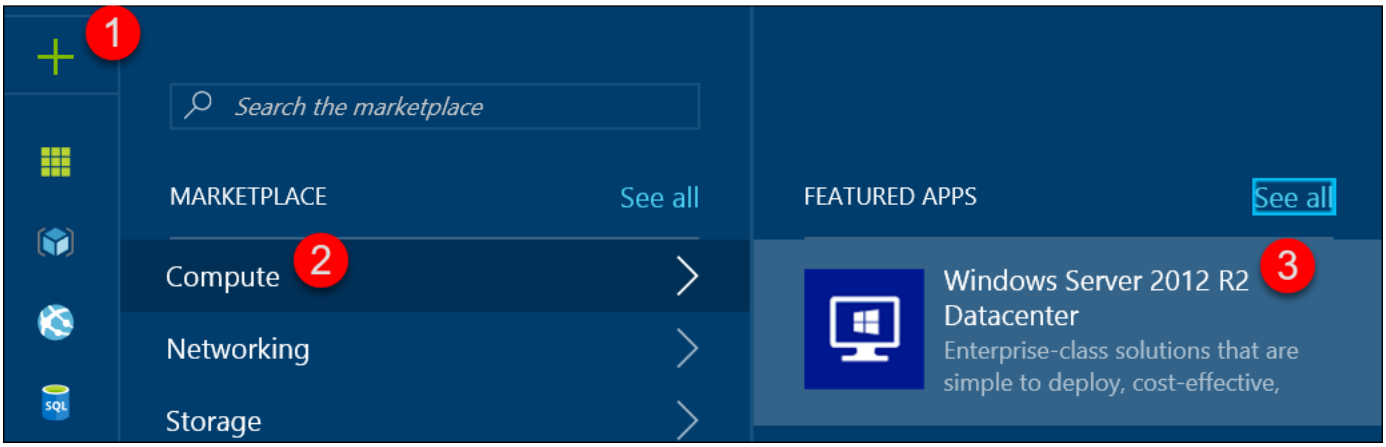


You should have two subnets with following address ranges:



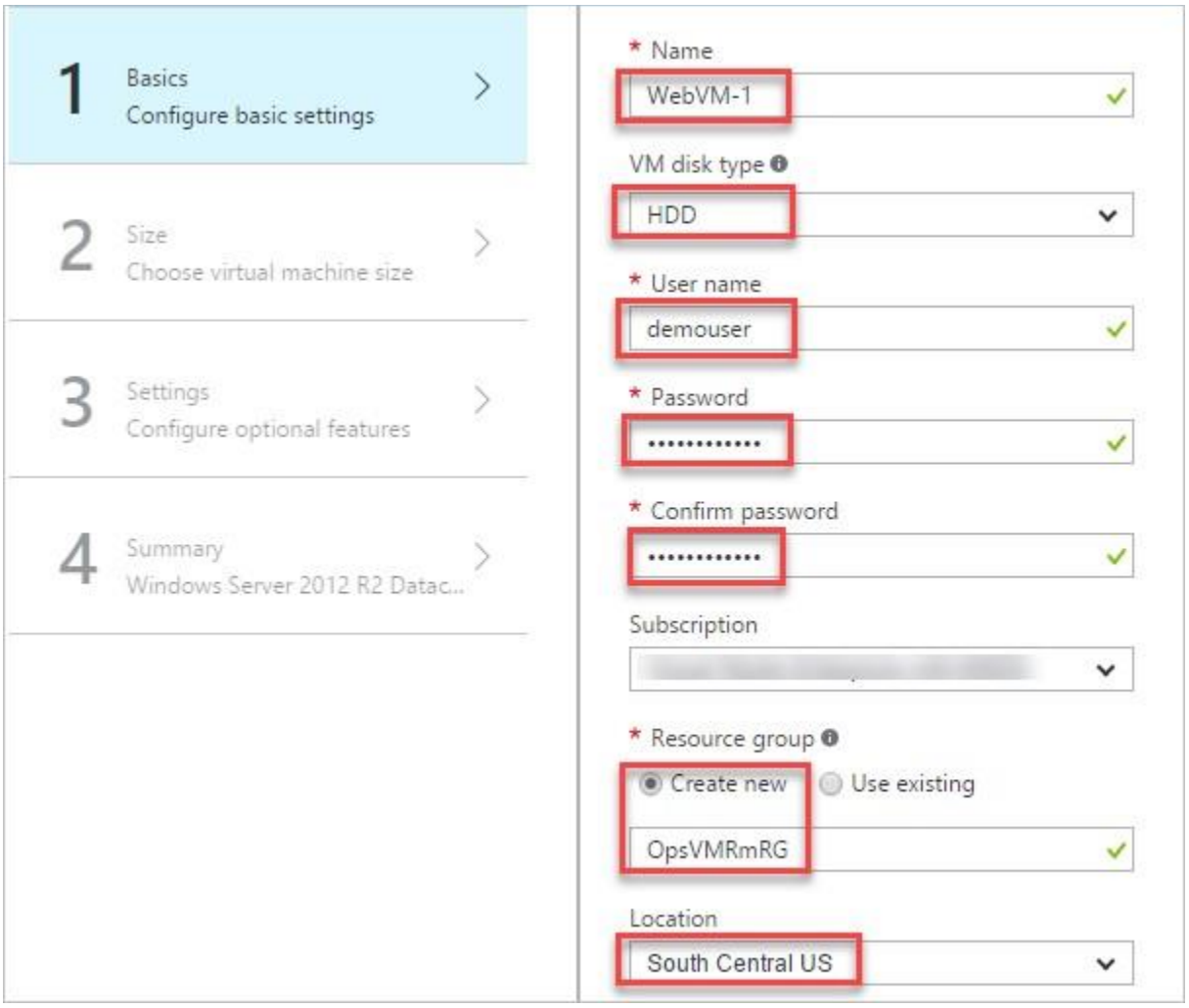
Exercise 4: Create a Virtual Machine

2. Click **New**, **Compute**, and then select the **Windows Server 2012 R2 Datacenter** image from the FEATURED APPS list.



3. Leave the deployment model set to **Resource Manager** and click **Create**.

4. Specify the following configuration and click **OK**.
    - Name: **WebVM-1**
    - VM disk type: **HDD**
    - User name: **demouser**
    - Password: **demo@pass123**
    - Subscription: **Ensure the correct subscription is selected**
    - Resource Group: **OpsVMRmRG**
    - Location: **the same region selected for the Azure Virtual Network**



5. Choose **F1 Standard** and then click **Select** at the bottom of the page.

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Note: You may have to click View All to see this option.
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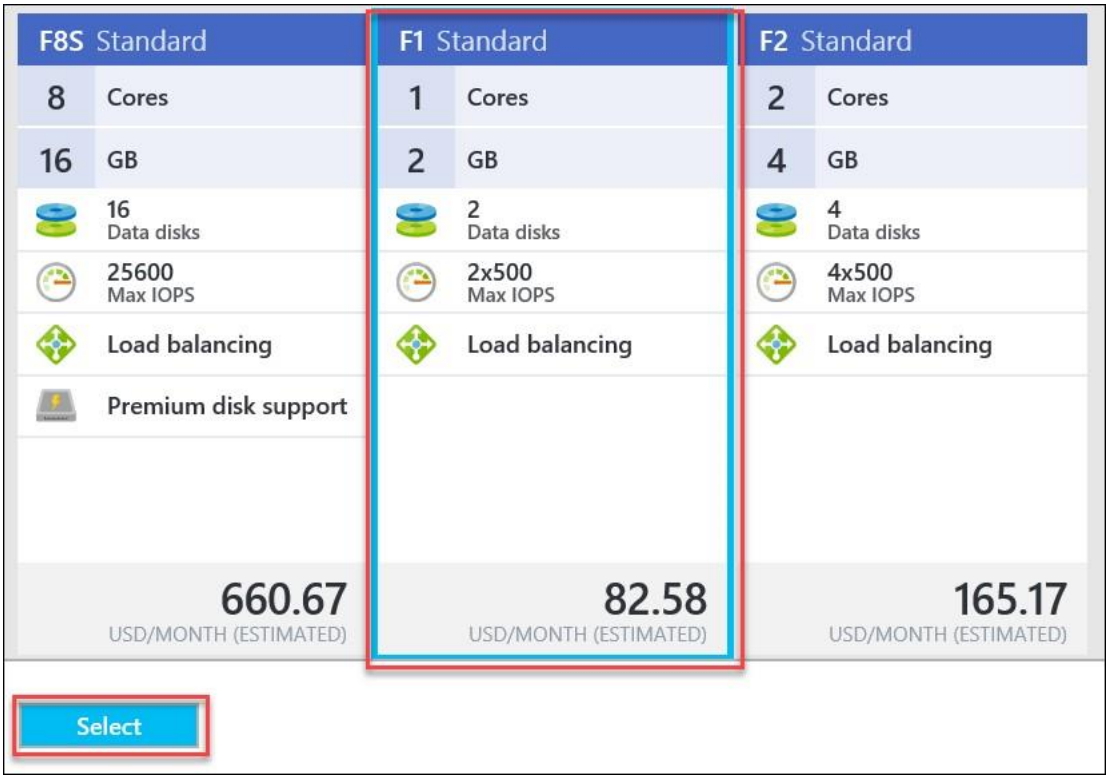
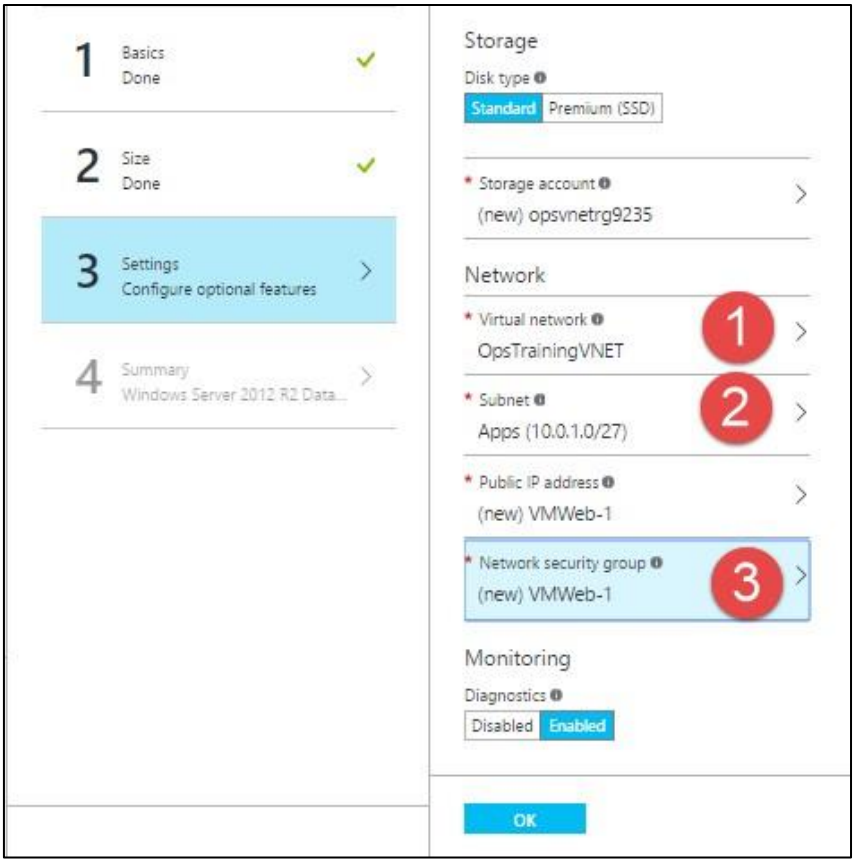
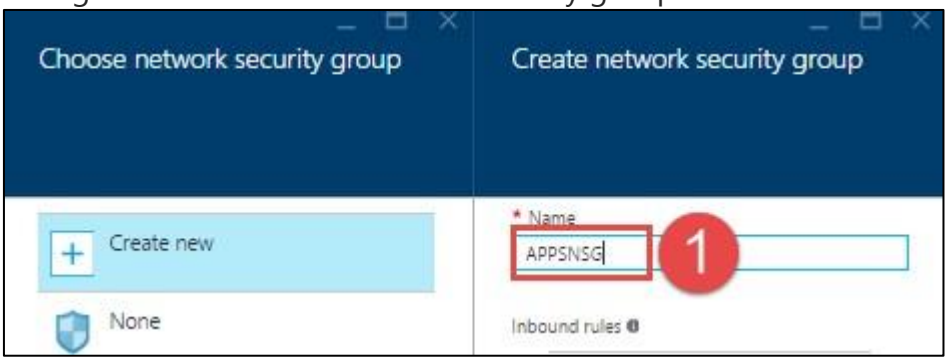


6. Specify the following configuration options:
    - Virtual network: Click the Virtual Network tile to change it to **OpsTrainingVNET** (if it is not already selected).
    - Subnet: Click the Subnet tile to change it to the **Apps** subnet (if it is not already selected)
    - Click the **Network security group** tile (see next step)

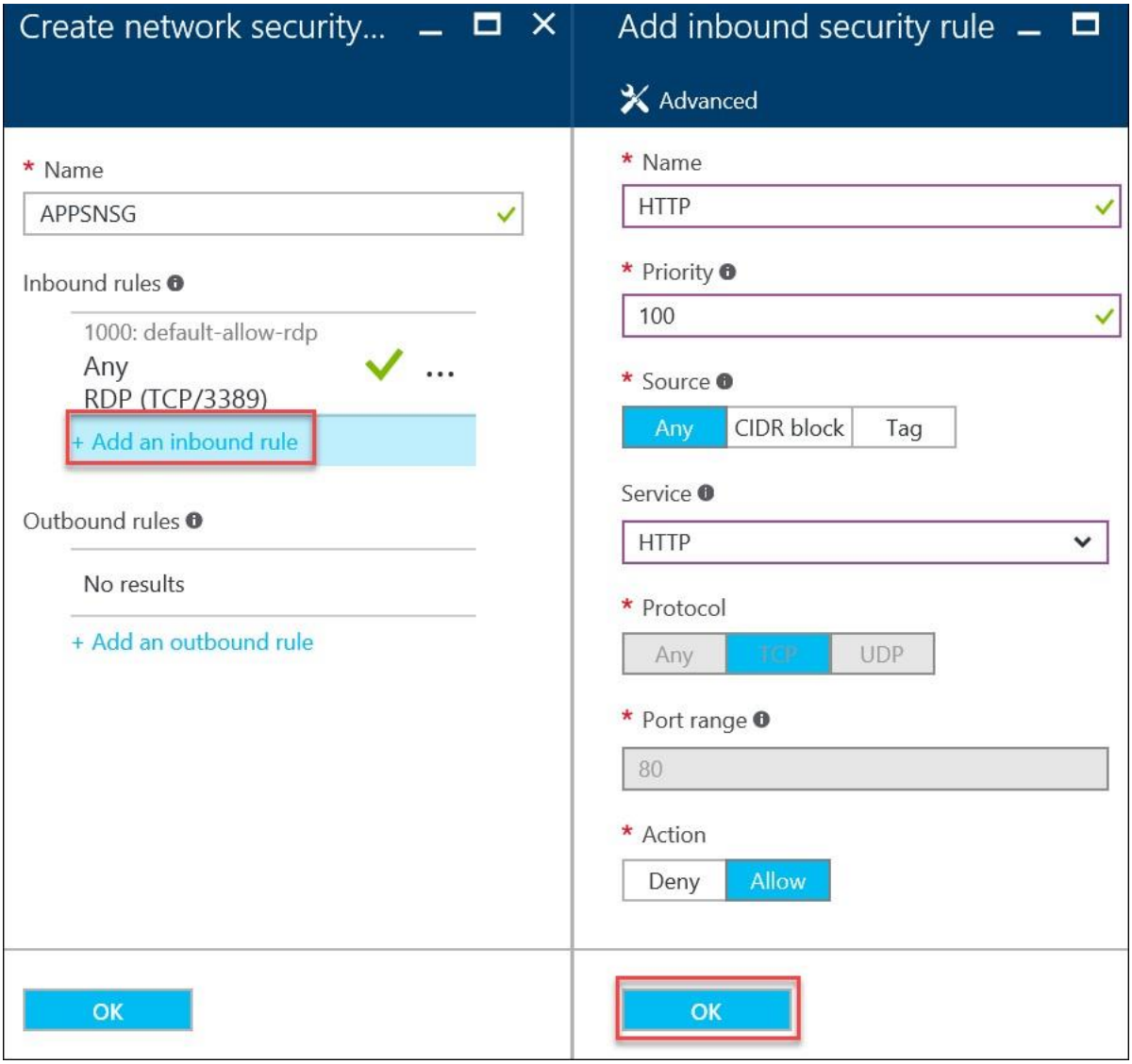


7. Change the name of the network security group to **APPSNSG**.



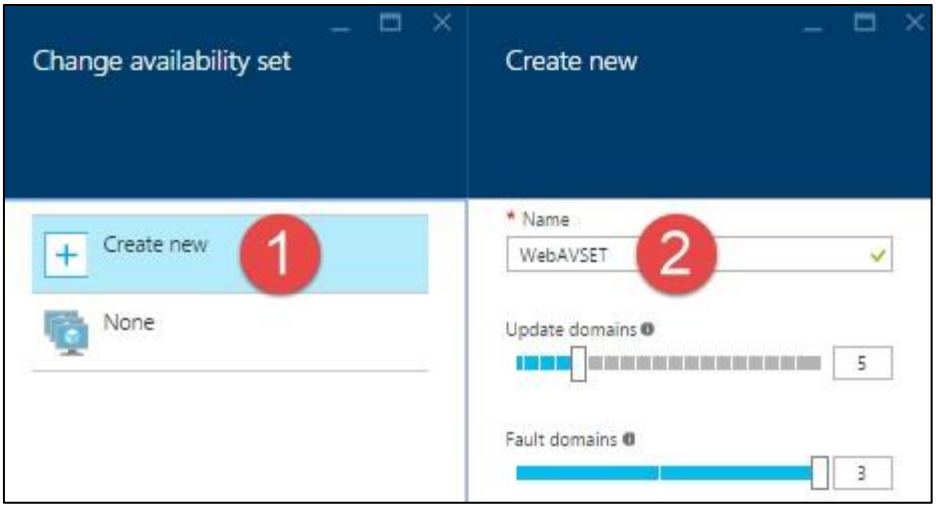
8. Click the **Add an Inbound Rule** link and specify the following configuration, and click **OK** twice to get back to the **Settings** blade.
    - Name: **HTTP**
    - Priority: **100**
    - Source: **Any**

- Service: **HTTP**
- Protocol: Fixed value
- Port range: Fixed value Action: **Allow**



9. Scroll down and click the **Availability set** tile.

10. Click **Create new**, and name the availability set **WebAVSet** and then click **OK**.



11. Click **OK** until all blades are closed and the virtual machine starts to provision.

Lab Summary

In this lab, you created a virtual network that will be used for several of the hands on labs in this course. You then created a virtual machine and specified the virtual network configuration and the availability set for the virtual machine.