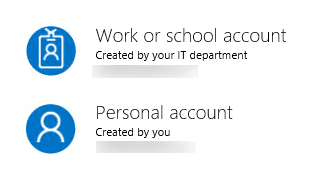
## Creating an Azure VM in a Virtual Network

### 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.

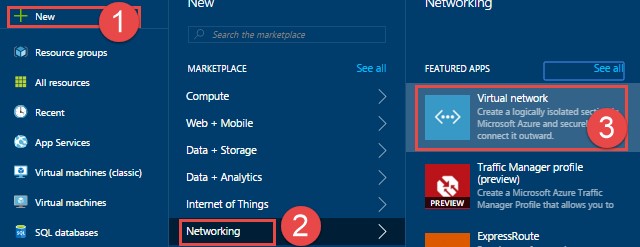
### Exercise 1: Login to the Azure Management Portal

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

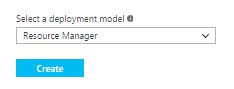
1. Click **New**, **Networking**, and then click **Virtual Network**.

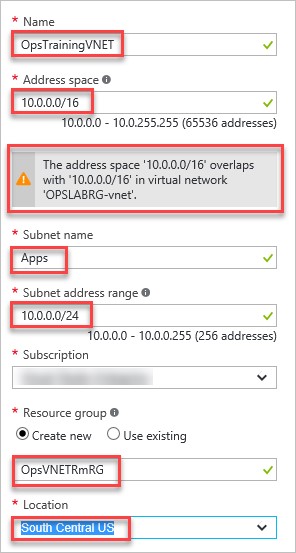


1. Leave the deployment model at **Resource Manager** and click **Create**.

3.

Specify the following configuration:

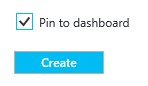




* + Name: **OpsTrainingVNET**
  + Address space: **10.0.0.0/16**
  + Subnet name: **Apps**
  + Subnet address range: **10.0.0.0/24**
  + Resource Group: **OpsVNETRmRG**
  + Location: **Select a region different than the one you used for the lab virtual machine.**

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.

4. Check the box **Pin to dashboard** and click **Create** to create the virtual network.



### Exercise 3: Update the Virtual Network

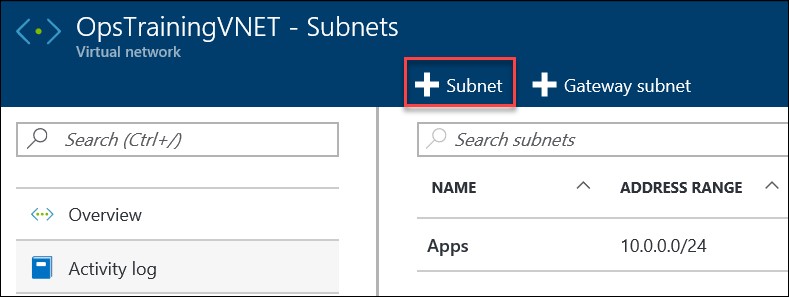
1. Click the **OpsTrainingVNET** tile to open the virtual network.



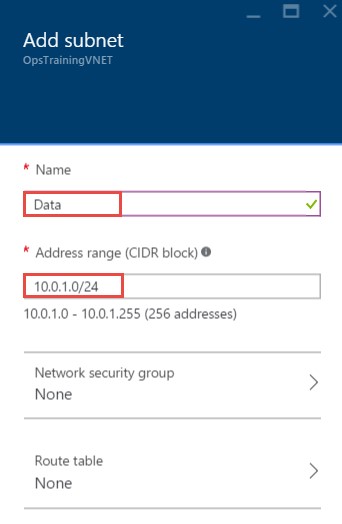
1. Click the **Subnets** tile on the virtual network configuration blade.



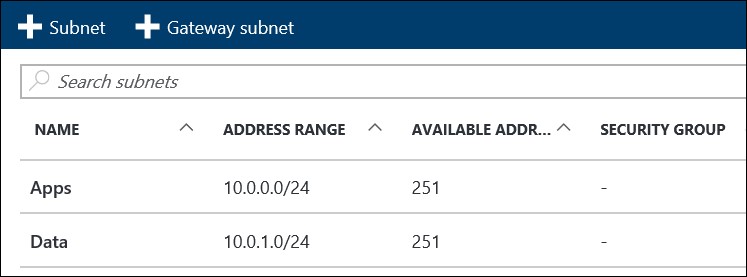
1. Click **Subnet +**



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

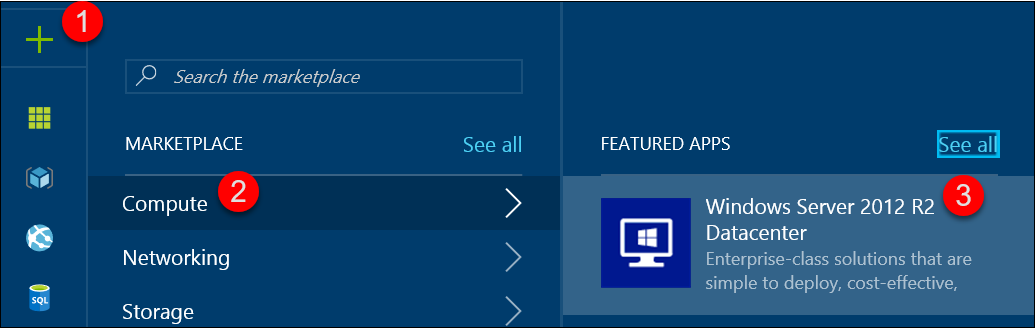


You should have two subnets with following address ranges:

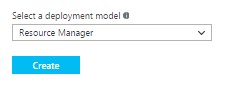


### Exercise 4: Create a Virtual Machine

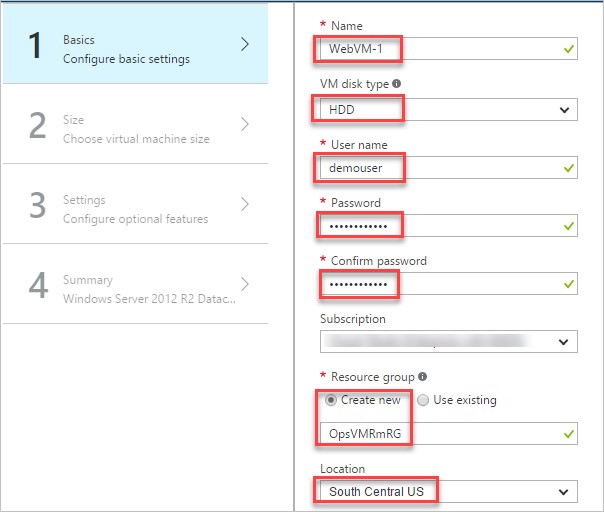
1. Click **New**, **Compute**, and then select the **Windows Server 2012 R2 Datacenter** image from the FEATURED APPS list.



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

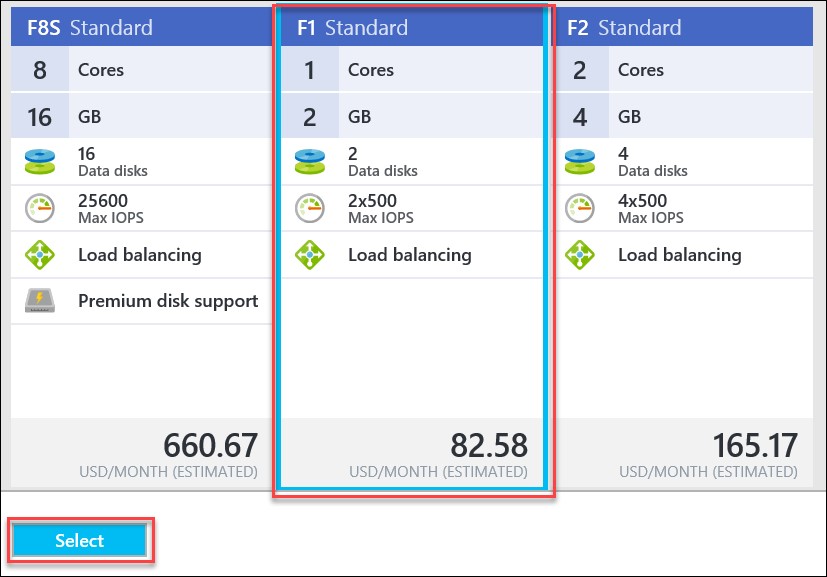


1. Specify the following configuration and click **OK**.
   * Name: **WebVM-1**
   * VM disk type: **HDD**
   * User name: **demouser**
   * Password: **demo@pass123**
   * Subscription: **Ensure the correct subscription is selected**
   * Resource Group: **OpsVMRmRG**
   * Location: **the same region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

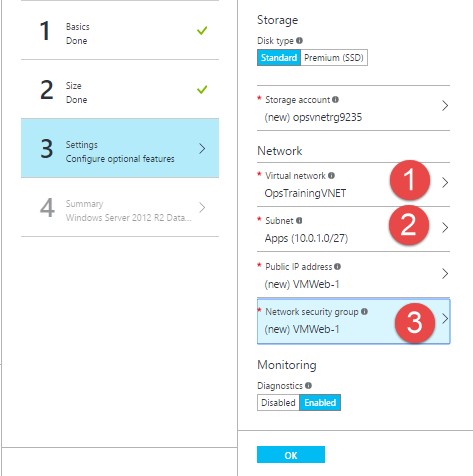


1. Choose **F1 Standard** and then click **Select** at the bottom of the page.

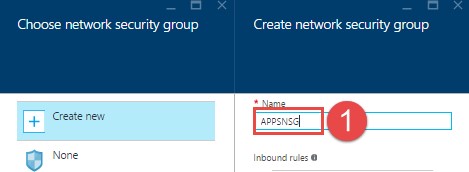
Note: You may have to click View All to see this option.



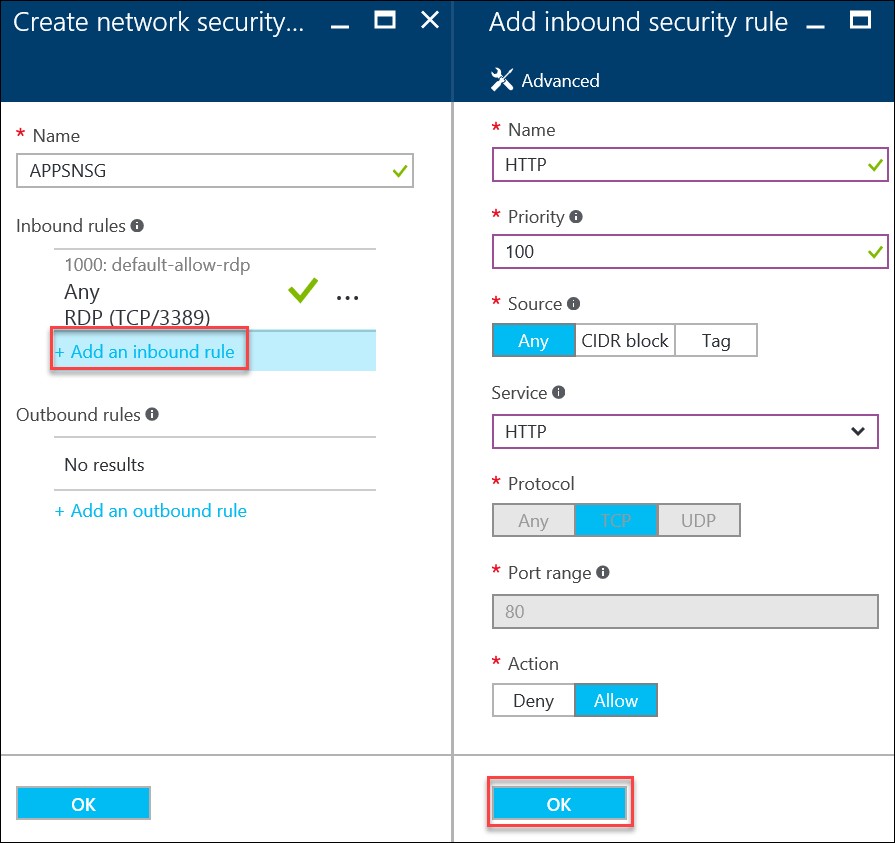
1. Specify the following configuration options:
   * Virtual network: Click the Virtual Network tile to change it to **OpsTrainingVNET** (if it is not already selected).
   * Subnet: Click the Subnet tile to change it to the **Apps** subnet (if it is not already selected)
   * Click the **Network security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



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



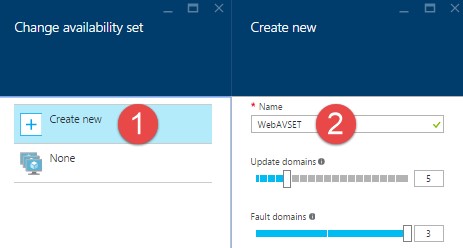
1. Click the **Add an Inbound Rule** link and specify the following configuration, and click **OK** twice to get back to the **Settings** blade.
   * Name: **HTTP**
   * Priority: **100**
   * Source: **Any**
   * Service: **HTTP**
   * Protocol: Fixed value
   * Port range: Fixed value  Action: **Allow**



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



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



1. 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.