

Lab: Data Science Virtual Machines

Objective

1. Create a Linux Data Science Virtual Machine
2. Connect to the Virtual Machine.

Note:

1. All the steps are to be done within Azure Portal.
2. Login into Azure Portal
 - a. Go to <https://portal.azure.com>
 - b. Login with the supplied credentials (username).
 - i. Each group has a unique integer for their login [1-5] eg. **usergroup[1-5]**
 - ii. **Username: Usergroup[1-5]@makecloudwork.com**
 - iii. **Password: Will be supplied in the class**
 - c. You will then see the landing Azure homepage. Dismiss any popups/message boxes

Section 1: Create a Data Science Virtual Machine

Steps

1. Login into Azure Portal
2. Type **"Data Science Virtual Machine"** on the search bar. From the dropdown under Marketplace, select **"Data Science Virtual Machine - Ubuntu 20.04"** or **"Data Science Virtual Machine - Ubuntu 18.04"**.
3. Click on **"Create"**
4. **Basics Tab**
 - a. Resource group: Select from the drop down.
 - b. Give name to Virtual Machine name as **"bcbsdsvm"+"group number"** add your group number as suffix e.g. if your group number is 4, name the resource as **"bcbsdsvm4"**
 - c. Region: Choose **(US) East US**
 - d. Availability options: Select **"No infrastructure redundancy required"**
 - e. Security Type: Select **"Standard"**
 - f. Image: **"Data Science Virtual Machine – Ubuntu 20.04 – Gen 2"**
 - g. Size: **"Standard_D2s_v3 – 2 vcpus, 8 GiB memory"**
 - h. Authentication type: select **"password"**
 - i. Username: **"azureuser"**
 - j. Password/Confirm Password: **"Learn@AzureML"**
 - k. Click on **"Next : Disks"**
5. **Disks Tab**
 - a. Leave the defaults and click on **"Next: Networking"**.
6. **Networking Tab**

- a. Look at the new Virtual Network/Subnet and the Public IP details.
- b. Check the radio for **“Delete public IP and NIC when VM is deleted”**
- c. Leave all the defaults and click on **“Review + create”**

7. Review+Create Tab

- a. Let the validation run and pass.
- b. Click on **“Create”** and wait for the deployment to complete
- c. Click on **“Go to resource”**. This will take you to the overview page of the newly created Virtual Machine

Observations

1. Scroll on the right screen and review the properties of the newly created Virtual Machine.
2. In the Settings section, click on **“Networking”** and review the inbound port rules.

Section 2: Connect to the Virtual Machine

We will do this together

End of Lab.