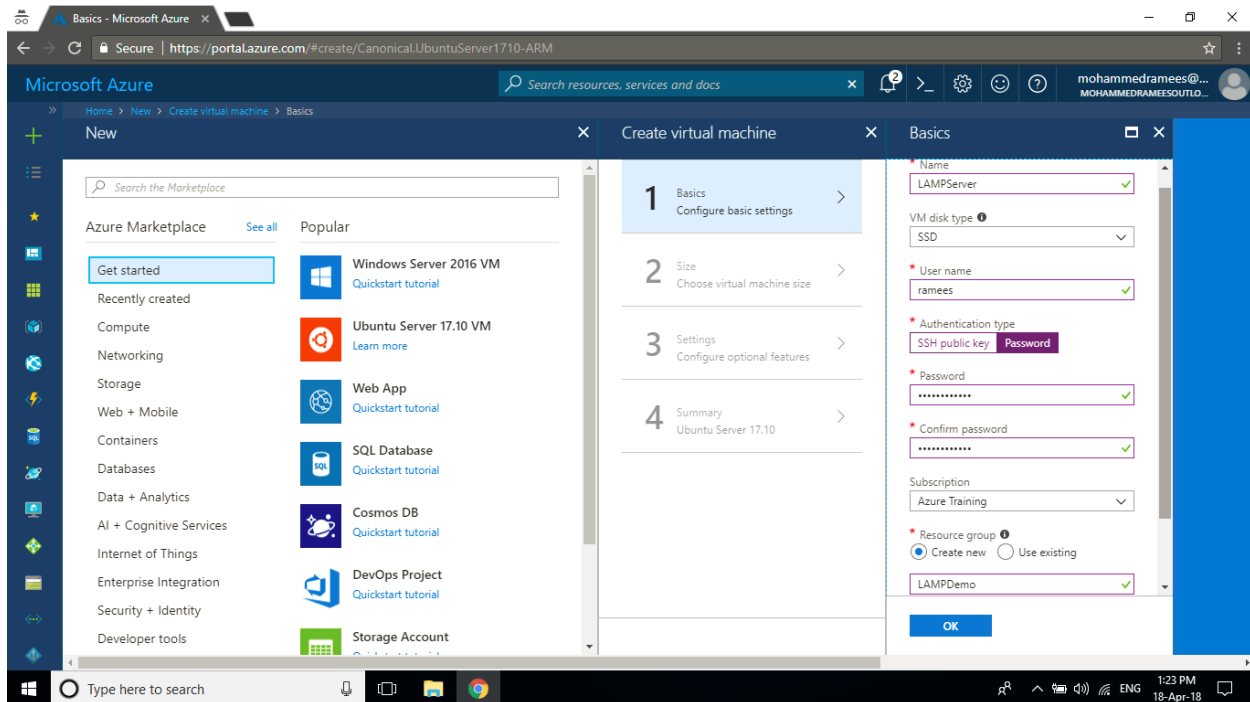# Availability Set for Virtual Machines

Step 1: Create a new **Ubuntu Server** from compute category. Fill the necessary details like **Name**, **Disk Type**(SSD/HDD), **Username** and **Password** for login credentials, **Subscription** (if you have multiple), **Location** and put the associated resources in a new **Resource Group**


Step 2: In the second step select the **Size** of the required VM as per your business requirements. You can see what each size offers and how much it costs per month for the same.
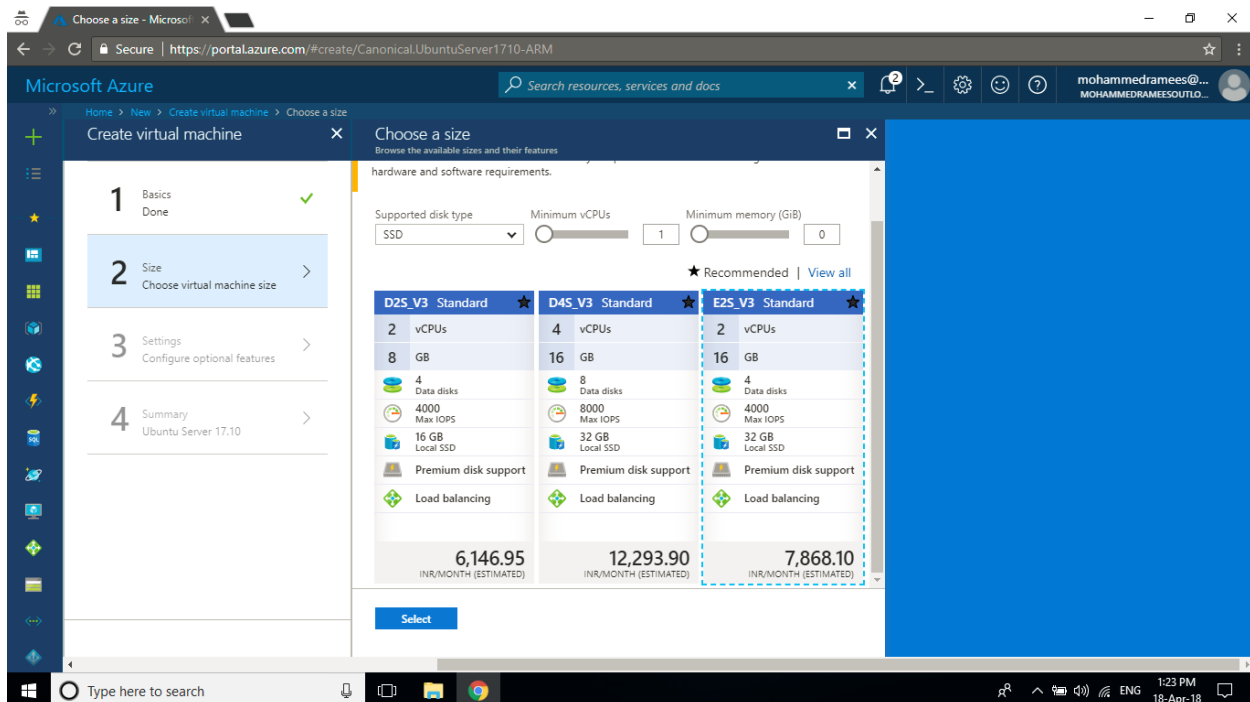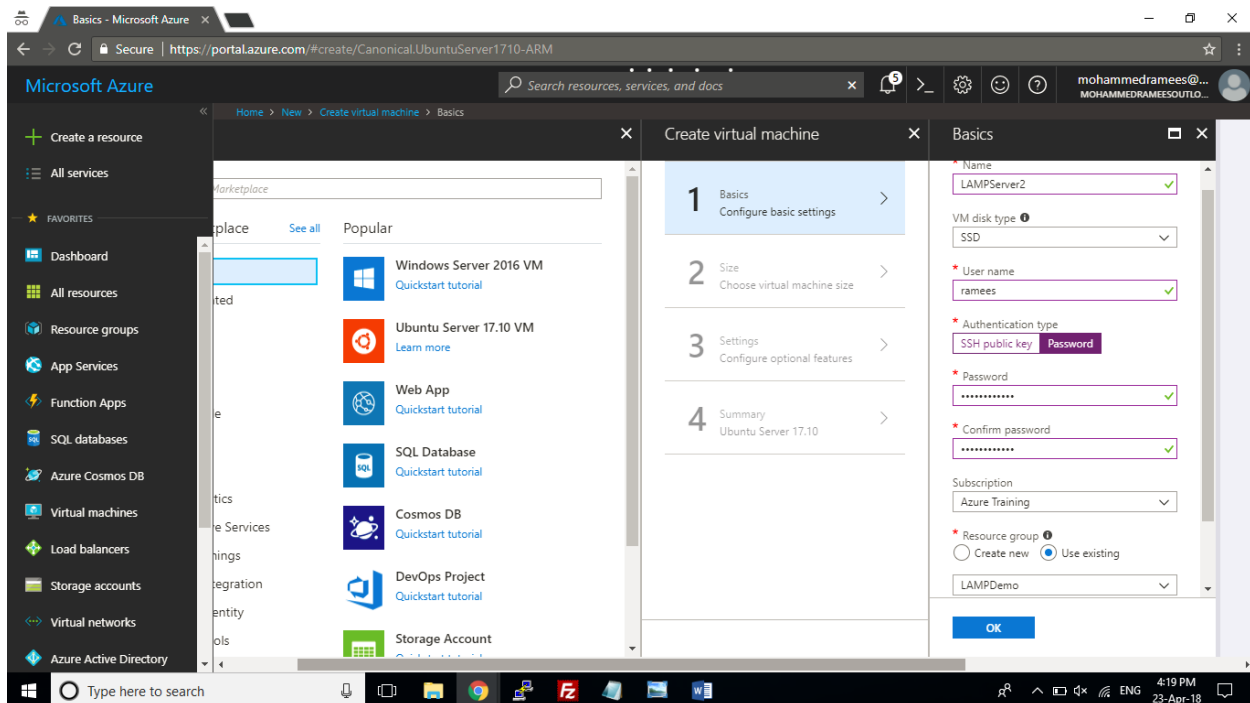
Step 3: In the third step create a new **Availability Set** and give a name for it, also specify the number of **Fault Domains** and **Update Domains** which I am giving two and three respectively for this demo. In this demo we are going with the defaults for all other settings.
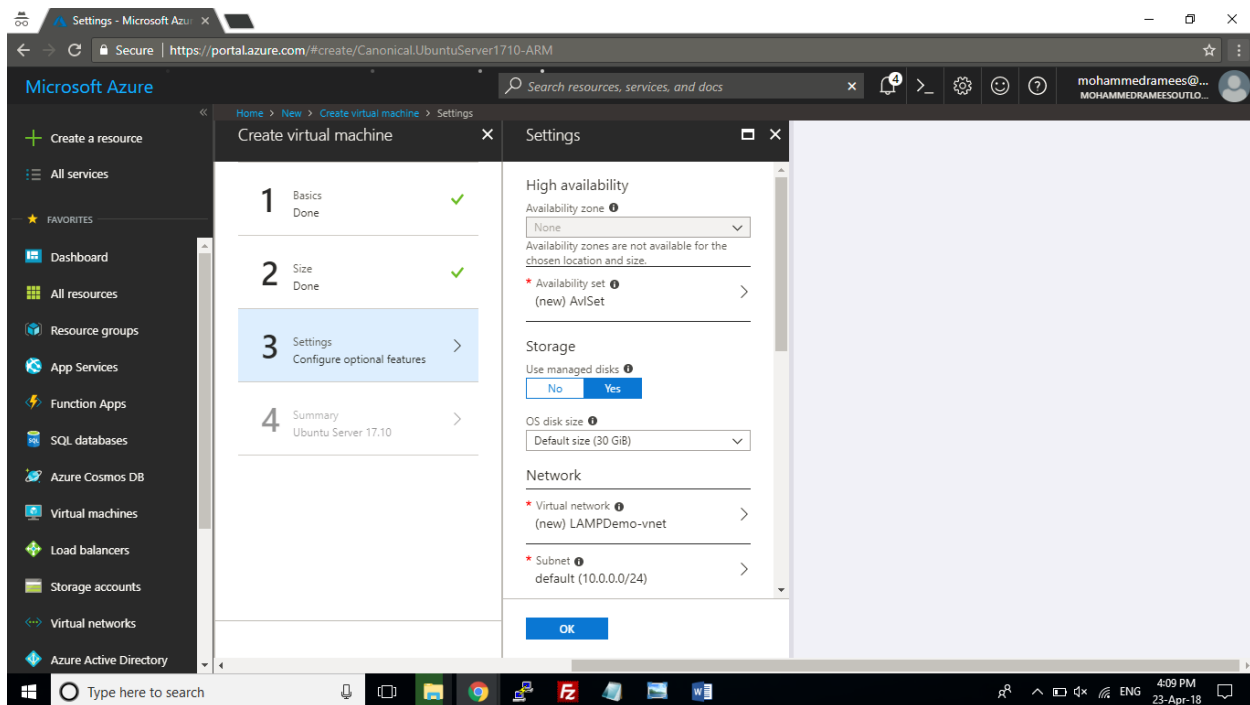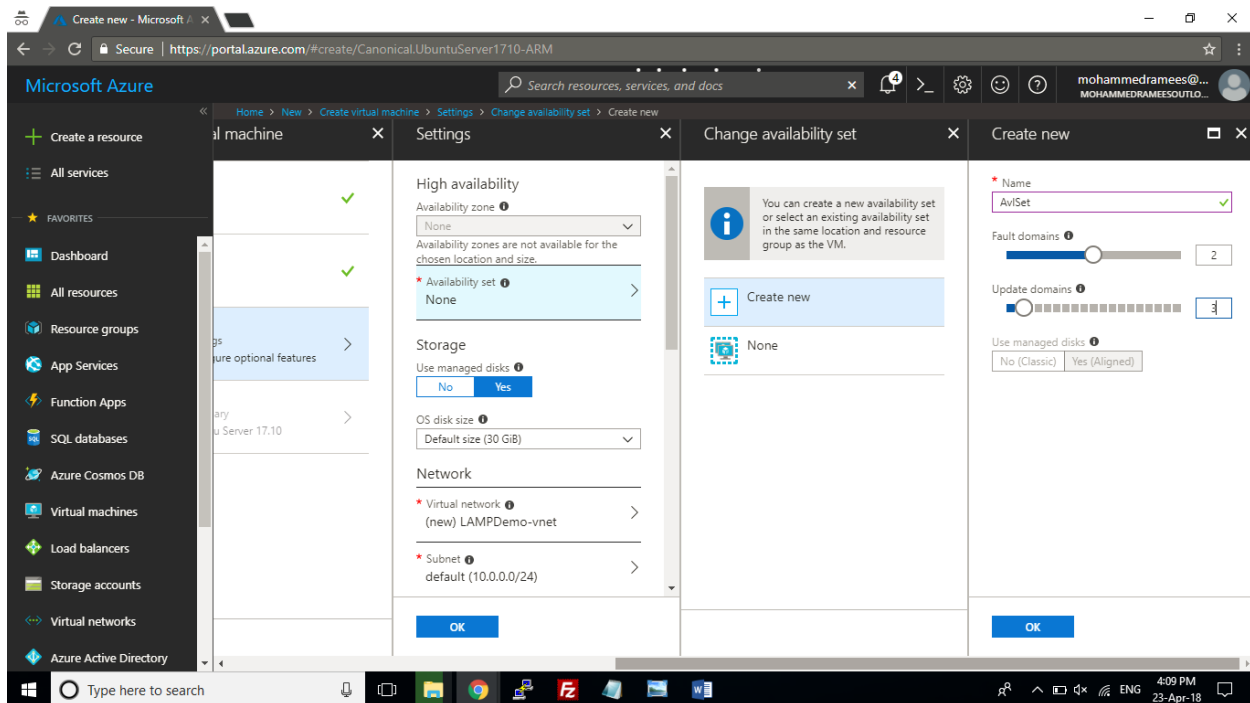
Step 4: On the final step wait for the final **Validation** to be passed and clicking on create will initiate the deployment of the VM. This may take few minutes and you can check the status from the notification bar.
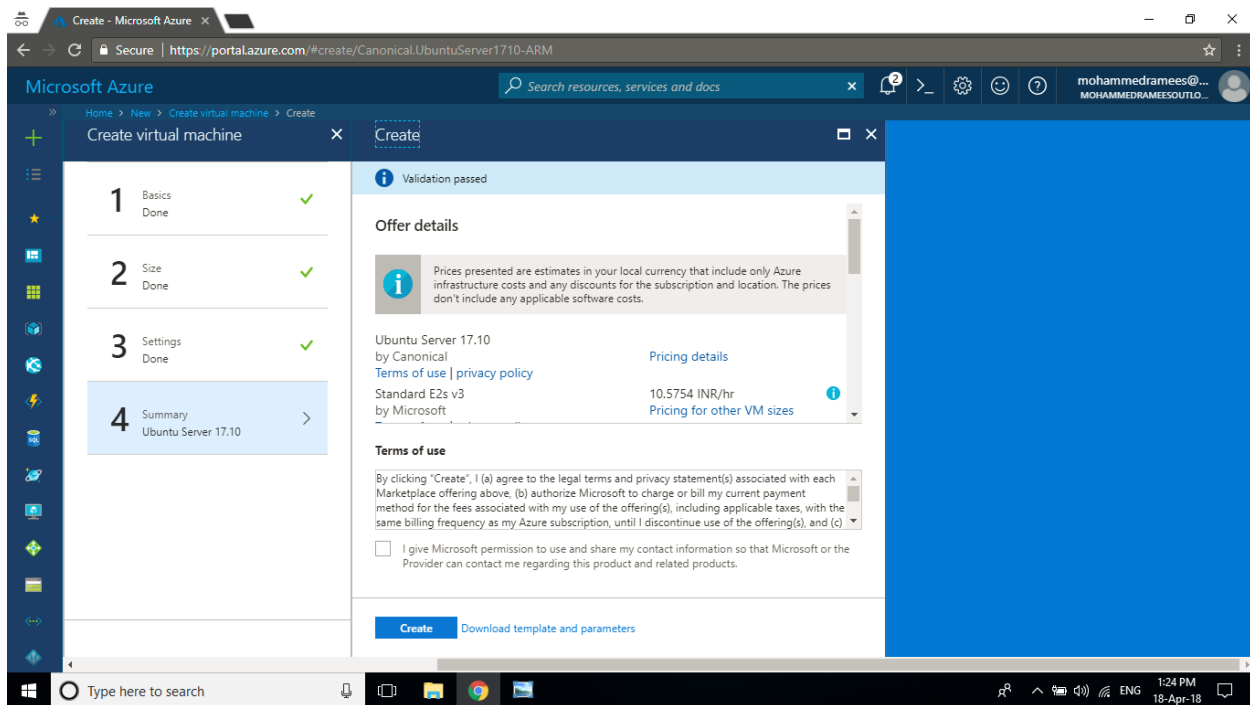

Step 5: Create another VM of the same configuration with a different name in the **Same Region** and the same **Resource Group**.

Step 6: In the third step of creation of second VM select, instead of creating a new Availability Set select the **existing Availability Set** created for the first VM. Leave all other settings as default as we did for the first VM
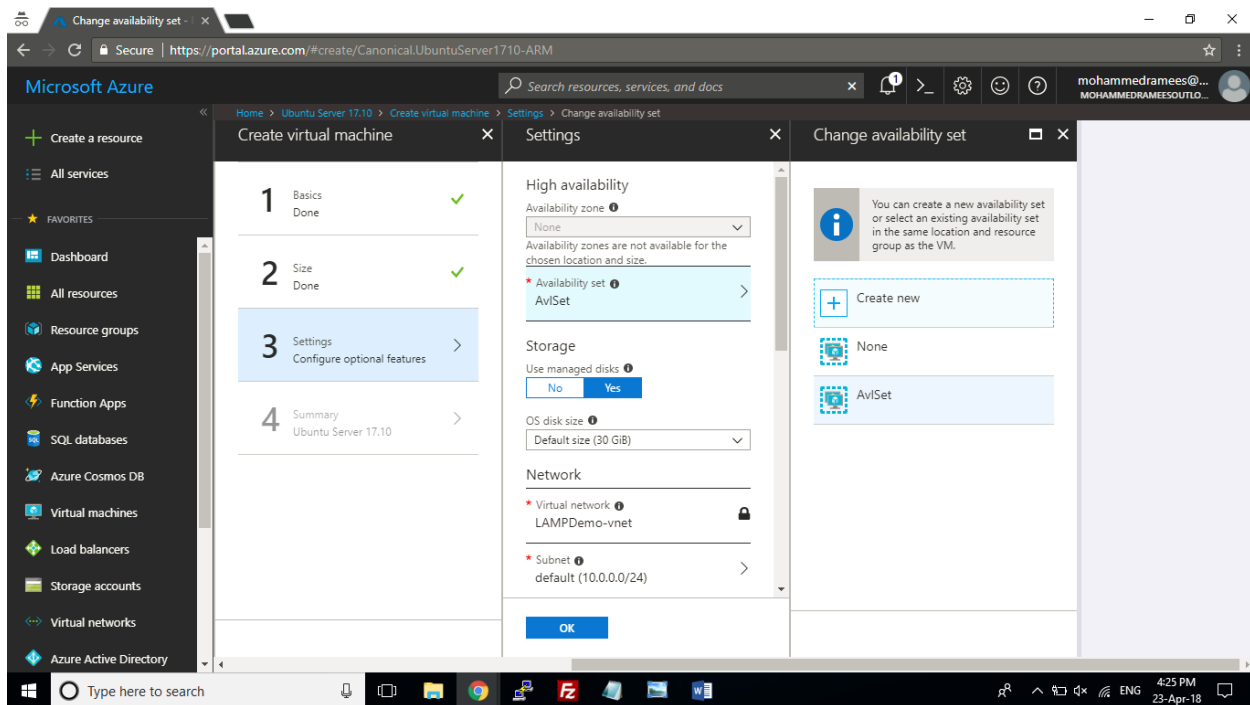
Step 7: Once the VM deployment is completed, select the **Availability Set** from the resource and you can see out two VMs listed in the availability set with Fault and Update domain listed as 0 and 1 as we have defined values 2 for Fault domain and 3 for Update Domain
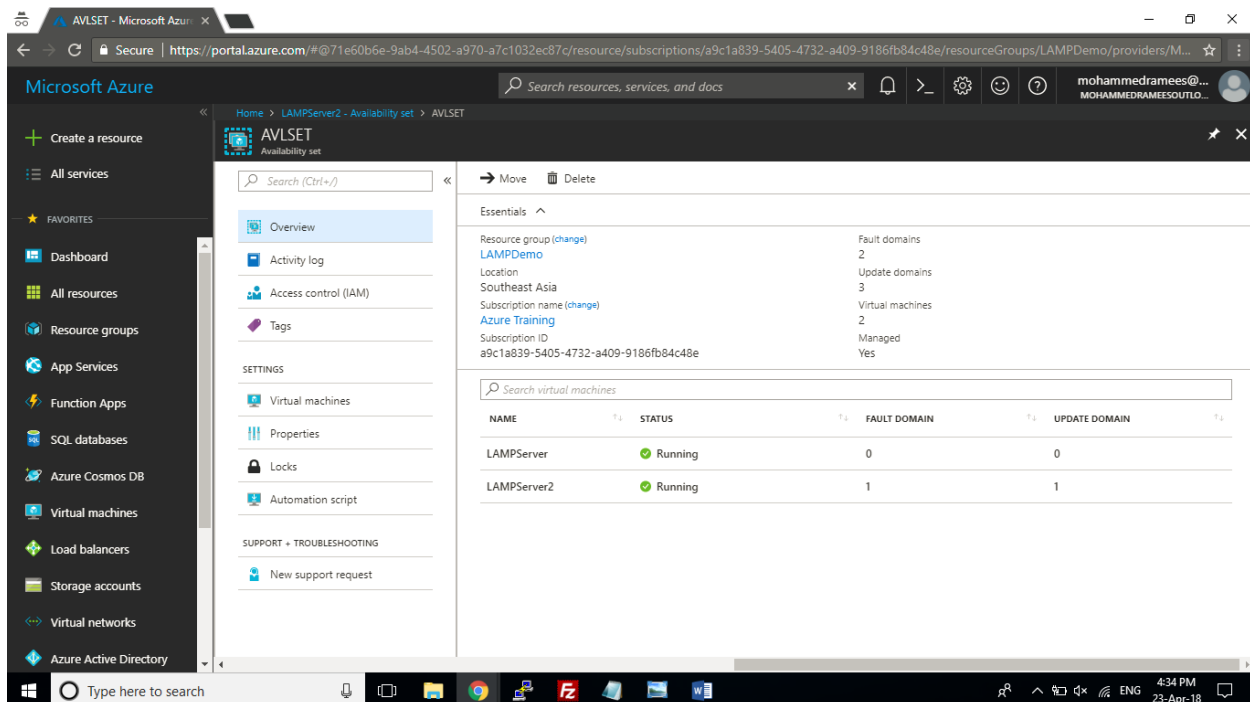
Step 8: Adding one more VM in the same availability se will list in the fault domain 0 and update domain 2