Configuring V-Net and Deploying a Virtual Machine on it

This demo will help you to create a virtual network and add a virtual machine on it by configuring the availability sets, network security group and virtual network.

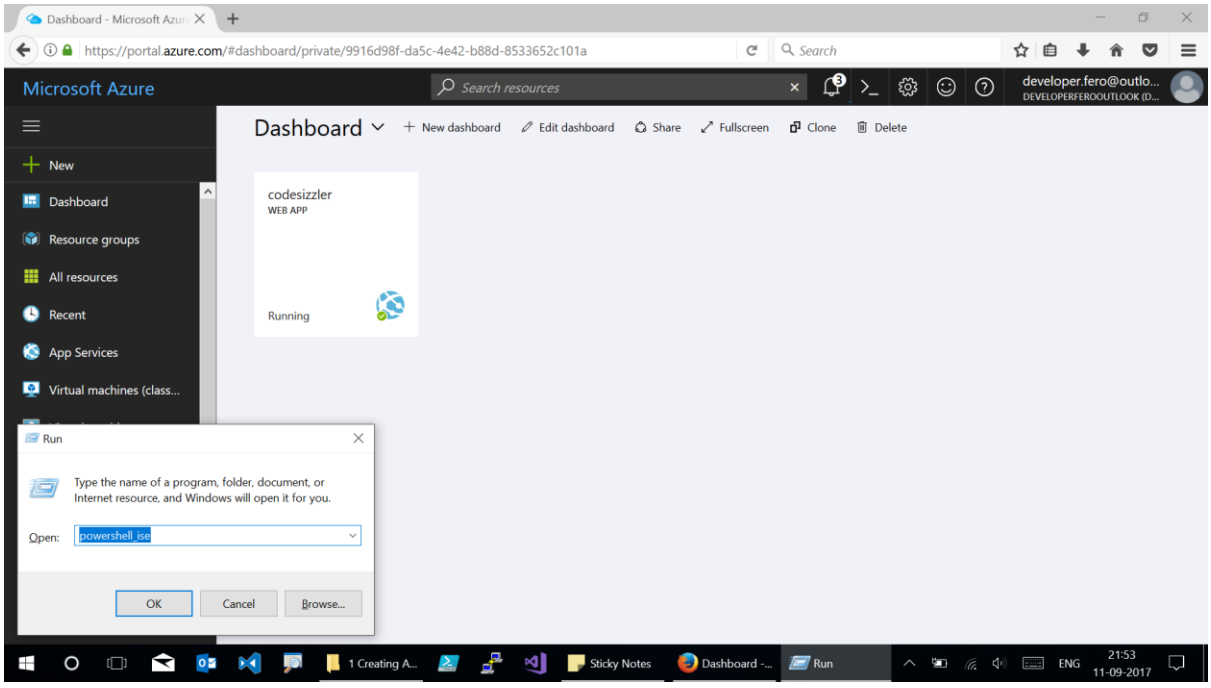
Pre-requisites:

- Azure Subscription.
- Powershell ISE installed on the machine.

Follow the below steps now:

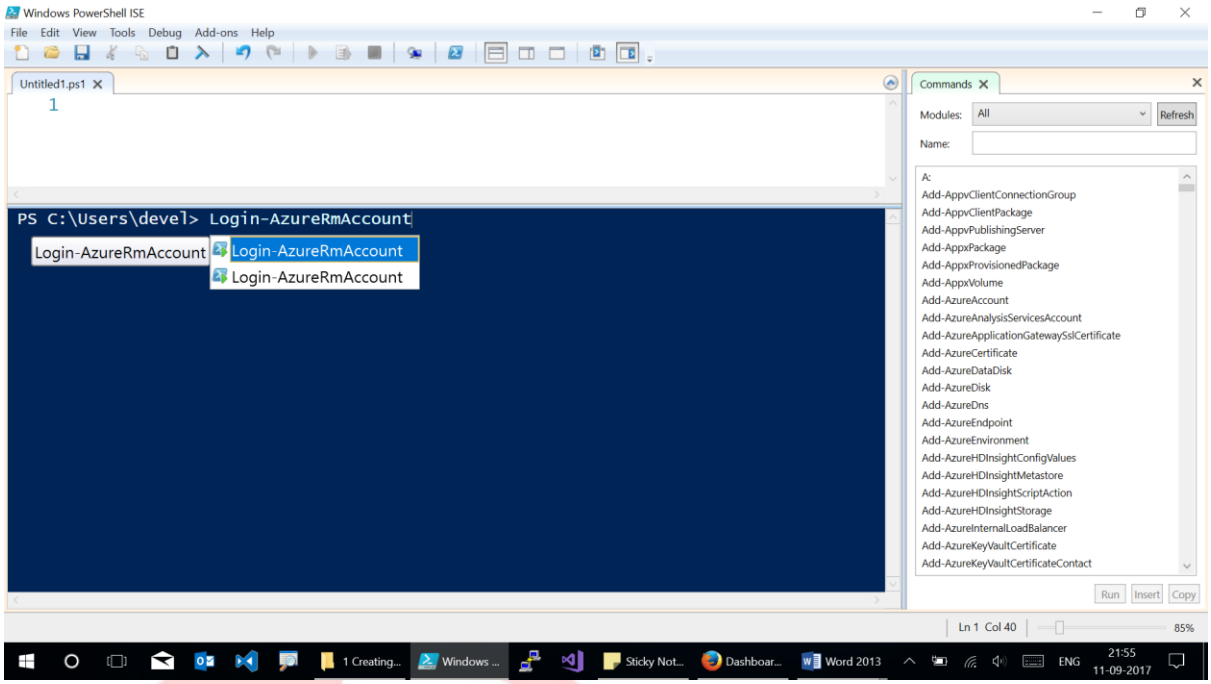
Step 01:

Go for powershell as admin by Run → powershell_ise



Enter the below command to login for the azure account at powershell.

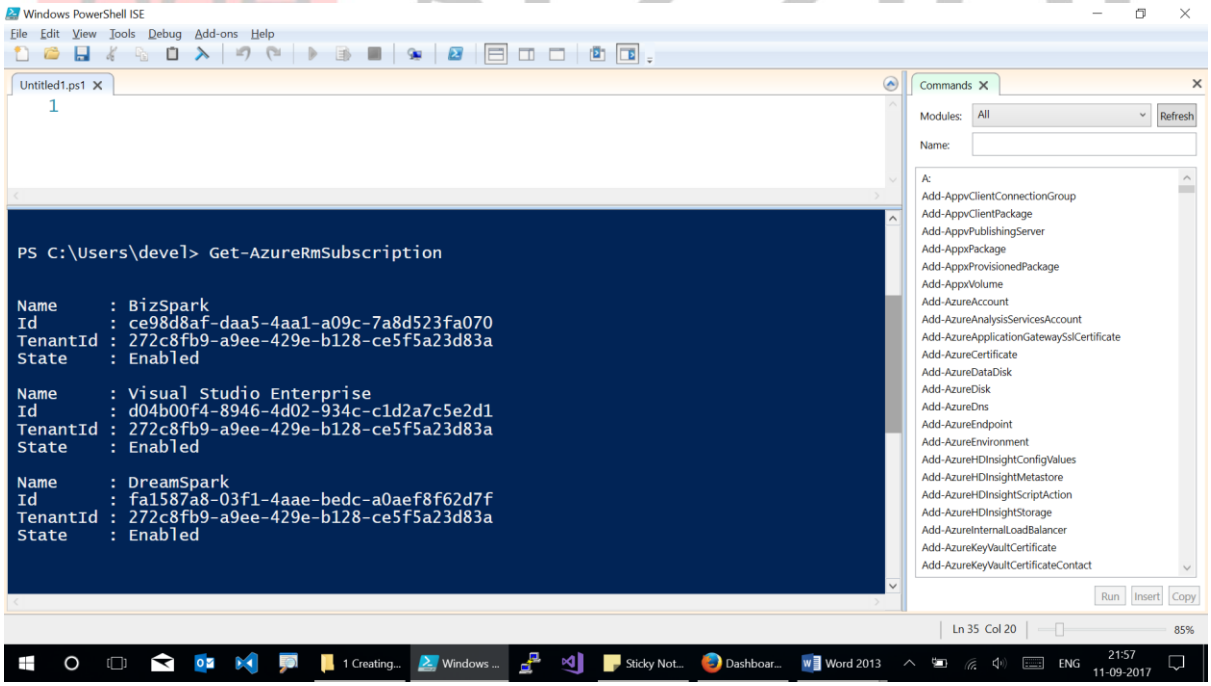
```
Login-AzureRmAccount
```



Use the below command to list out the subscription on azure.

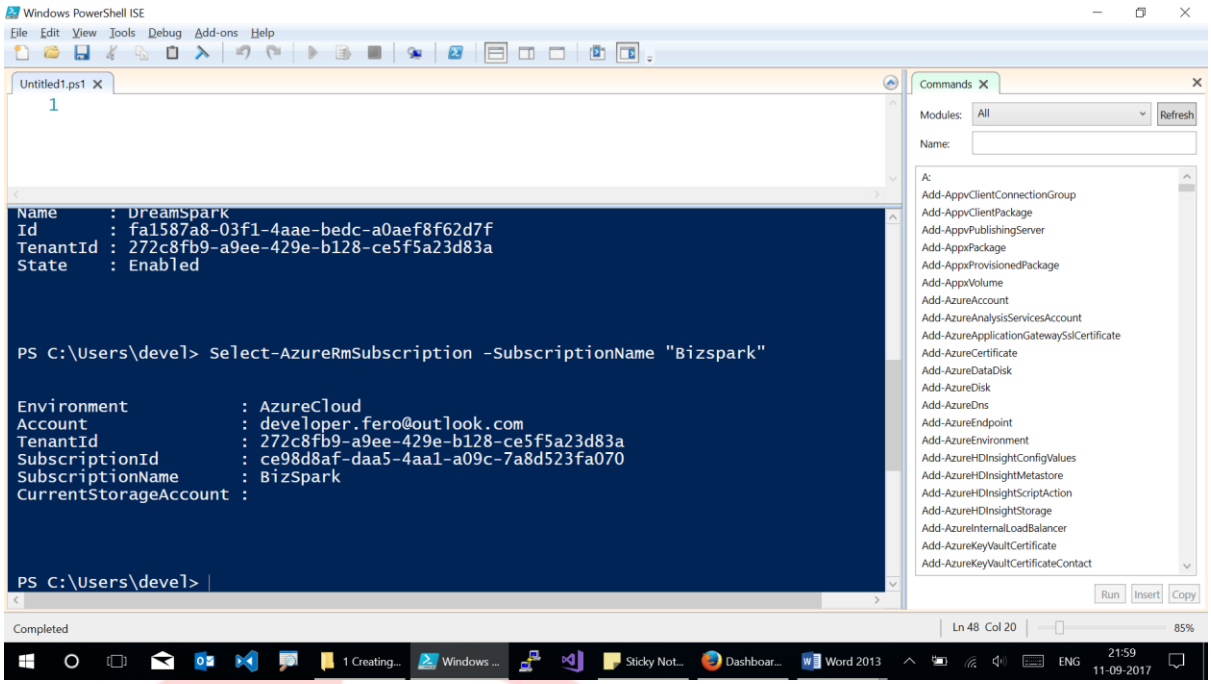
```
Get-AzureRmSubscription
```

Here goes the subscriptions listed out.



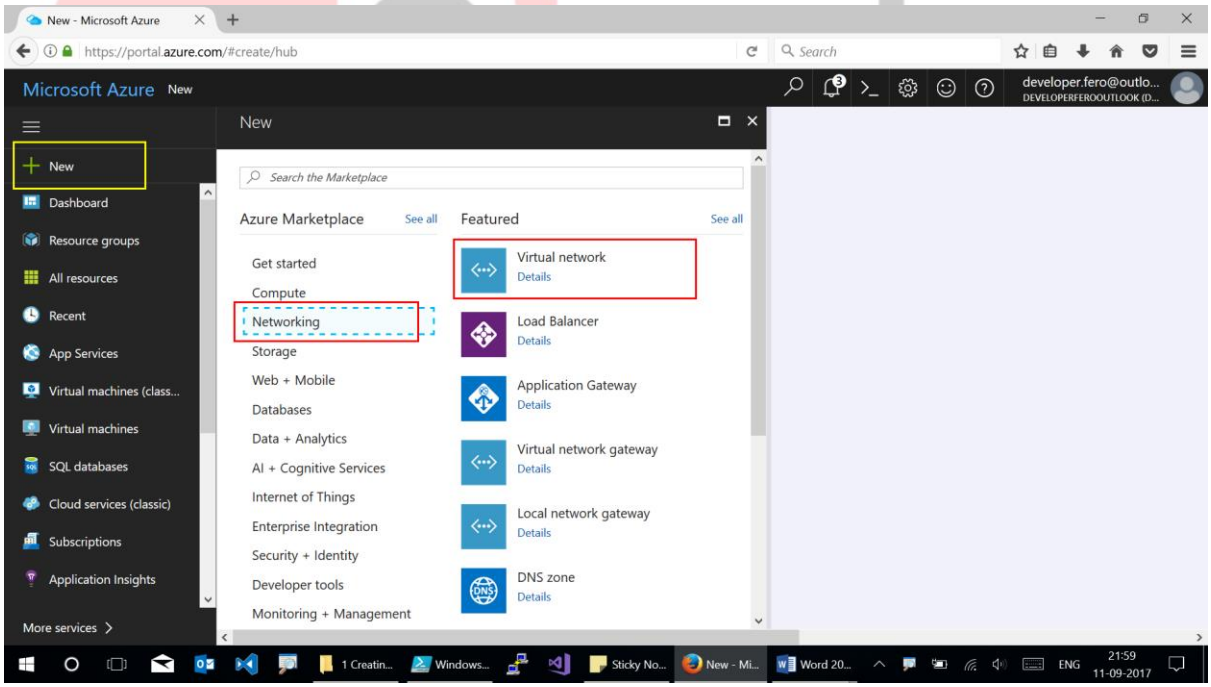
The below command will help to select a particular subscription to deploy or to use the subscription for the resource which is to be created.

```
Select-AzureRmSubscription -SubscriptionName "Bizspark"
```



Step – 02:

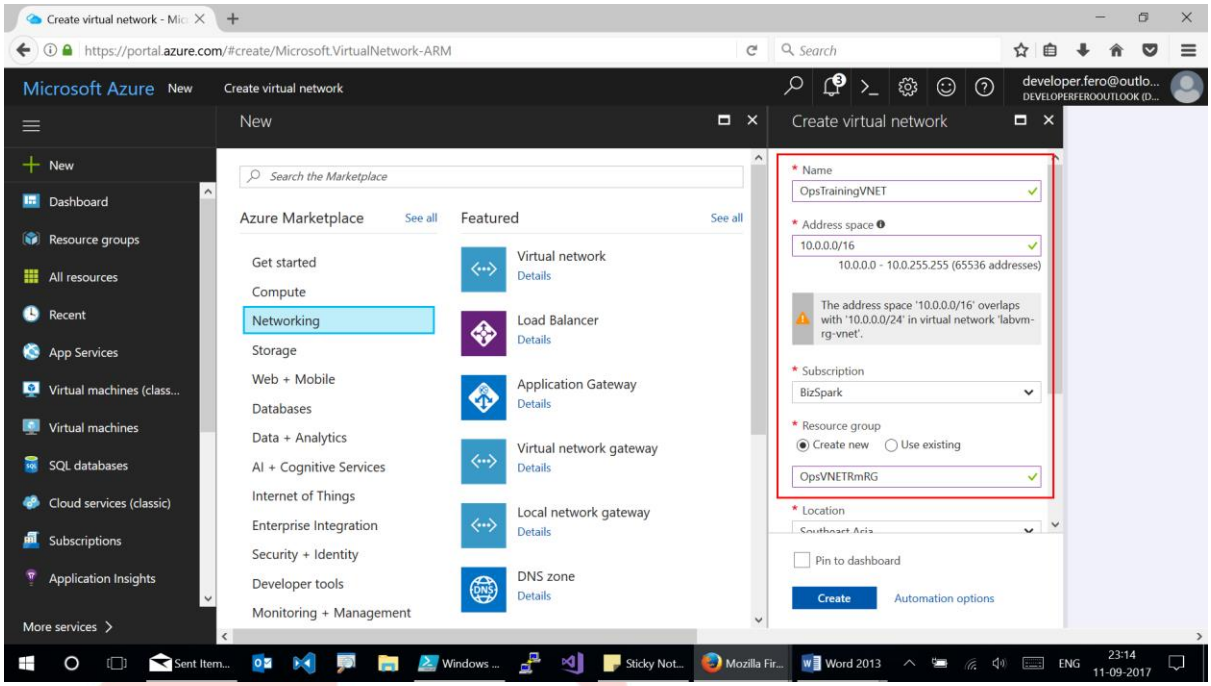
Login for the azure portal and go for New → Networking → Virtual Network

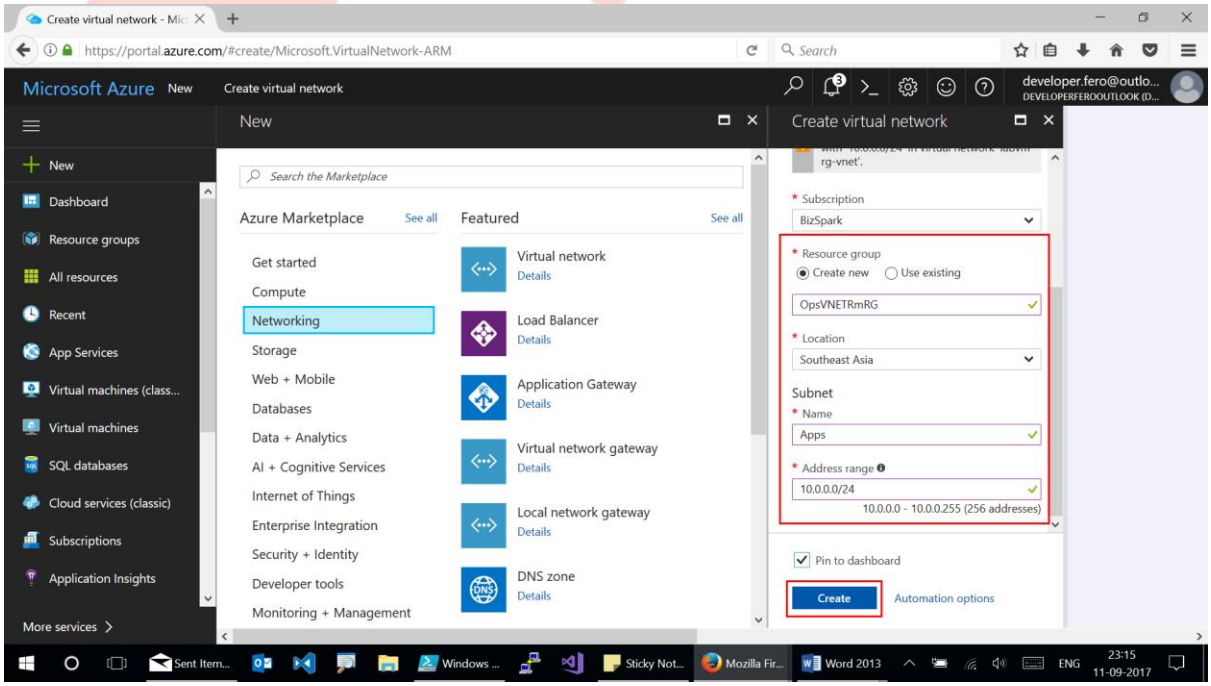


Configure the v-net with below details:

- V-net name – OpsTrainingVNET
- Address space – 10.0.0.0/16
- Subscription
- Resource Group – new one (OpsVNETRmRG)
- Location – Southeast Asia
- Subnet name – Apps
- Address range – 10.0.0.0/24

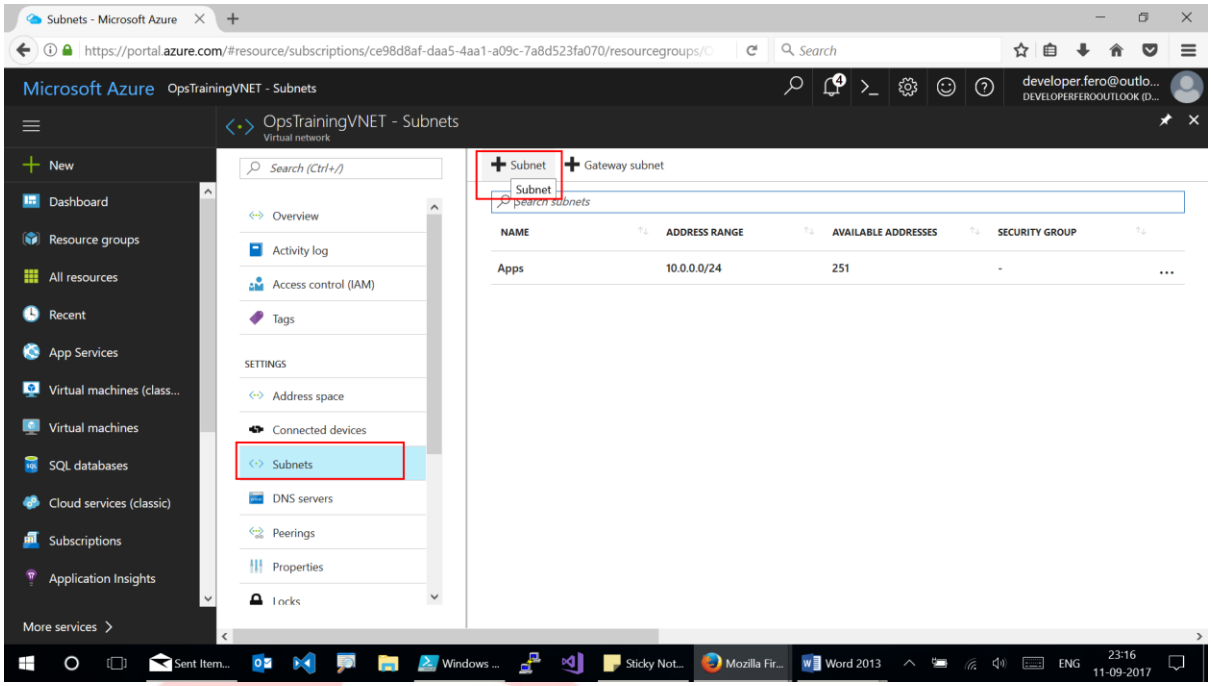
Click on “create”.



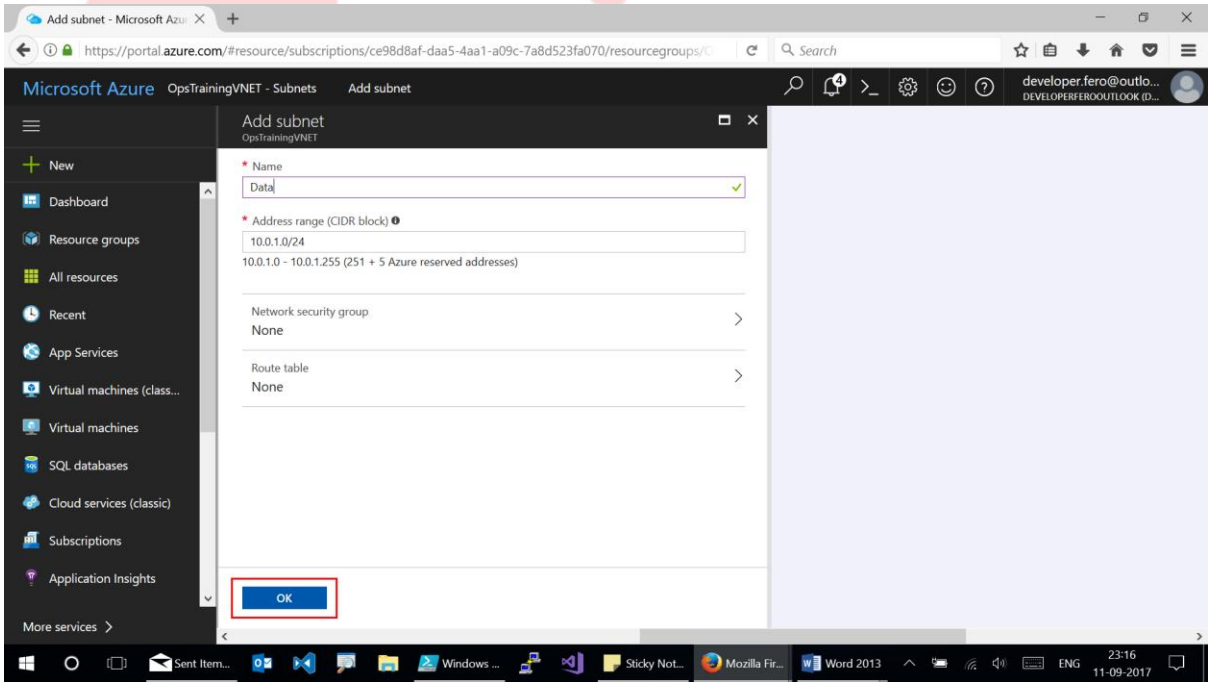


Add subnet on the v-net by clicking on “+Subnet”

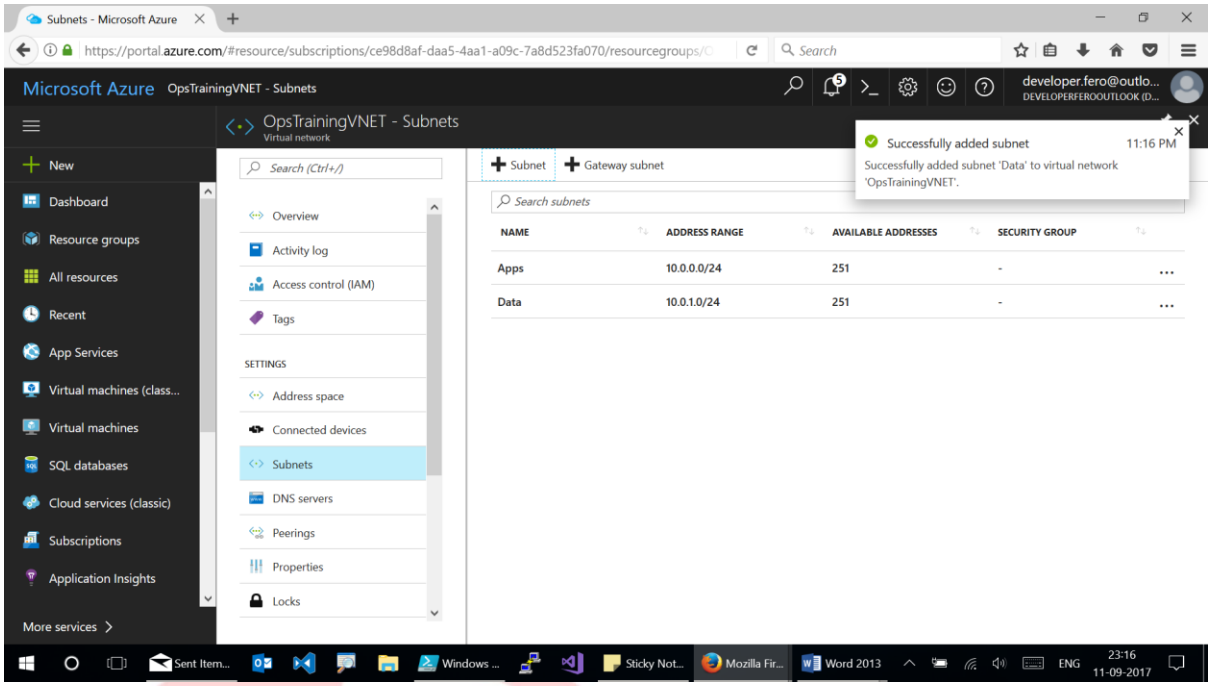
- Name – Data
- Address space – 10.0.0.0/24



Click on the “OK” button to add it.

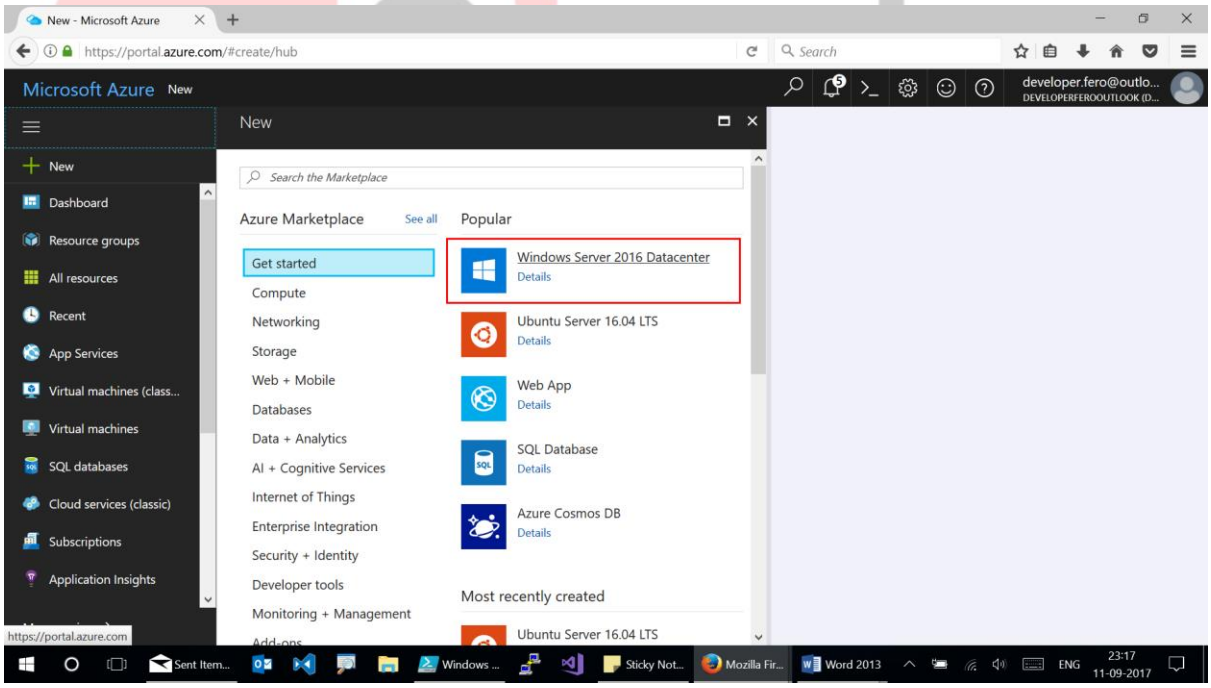


Here goes the subnet added at the v-net.



Step – 03:

For creating a virtual machine go for New → Compute → Windows Server 2016 Datacenter



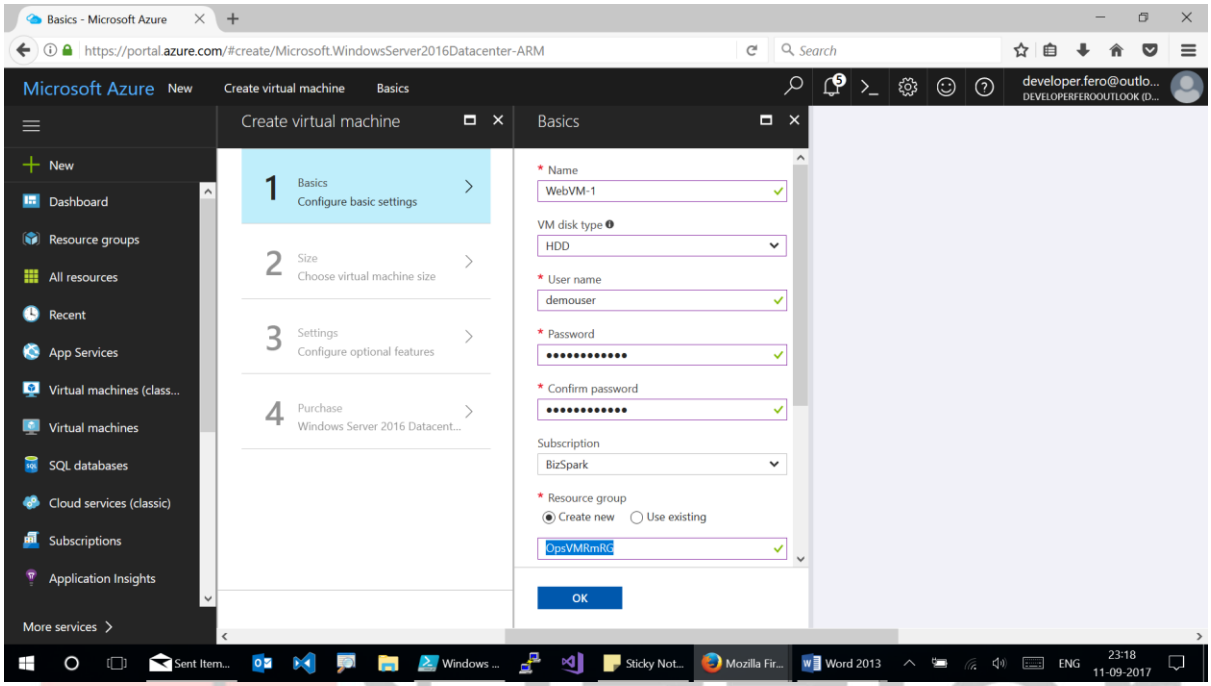
Fill the below blades of basics, size, settings and purchase.

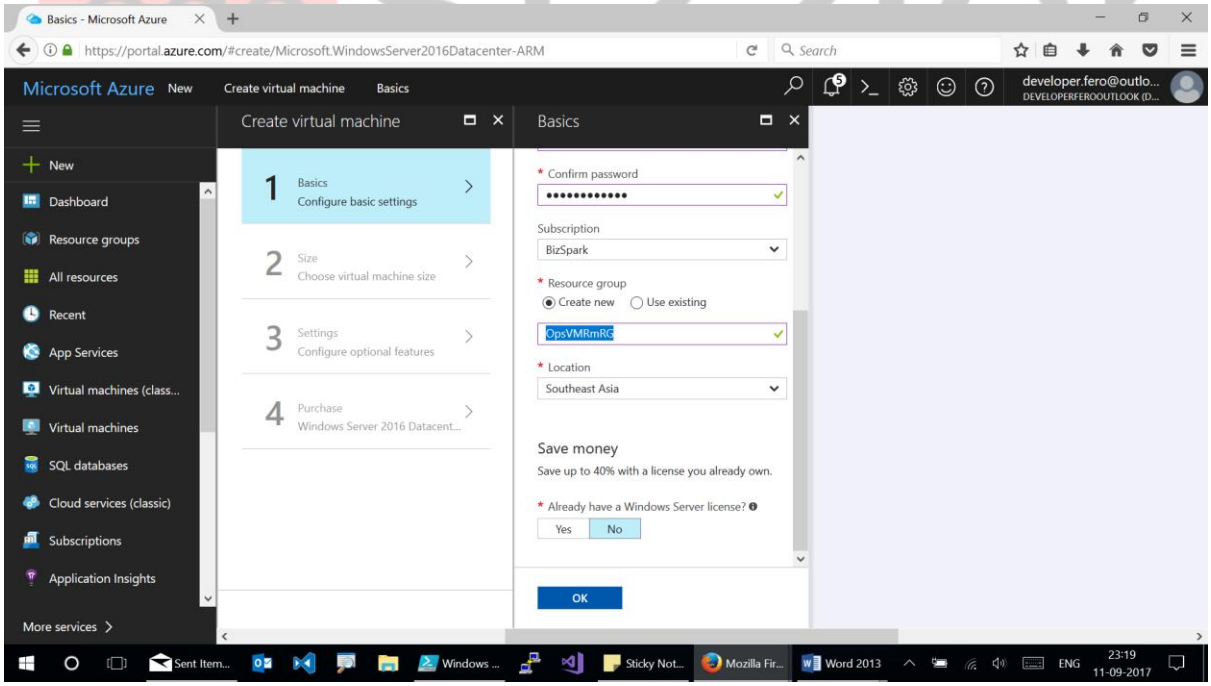
Basics –

- Name – WebVM-1
- VM disk type – HDD
- User name – demouser
- Password – demo@pass123
- Confirm password – demo@pass123

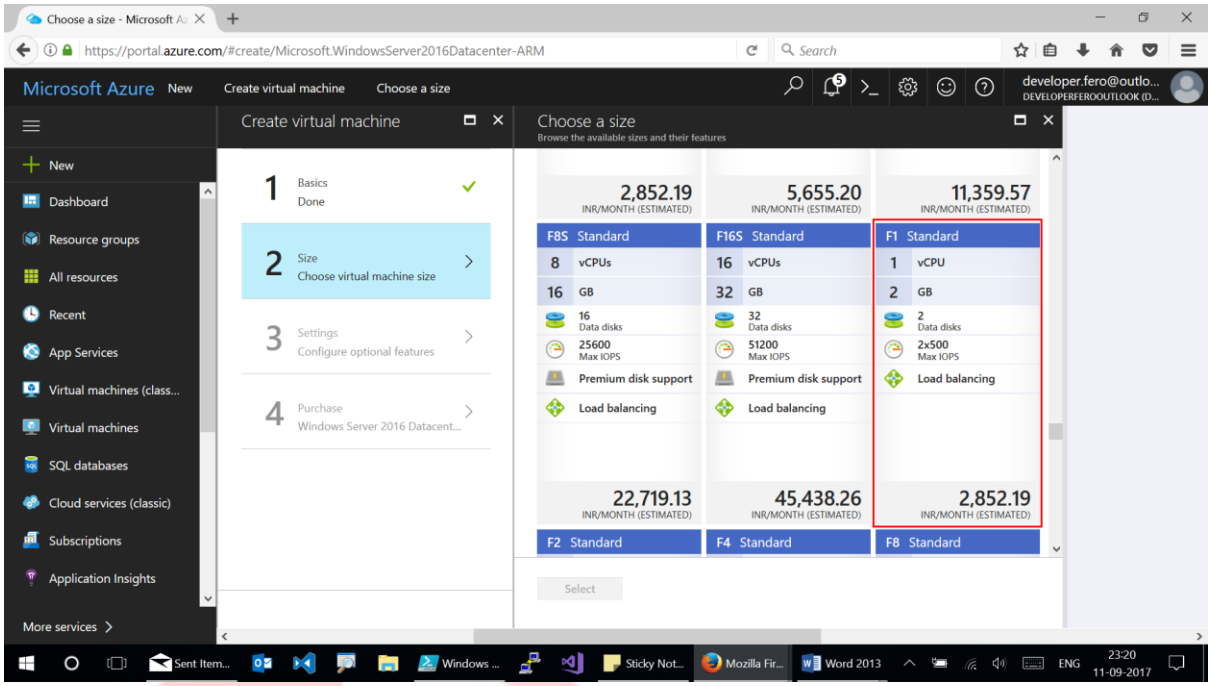
- Subscription
- Resource group – create new (OpsVMRmRG)
- Location – Southeast asia

Click on “OK”



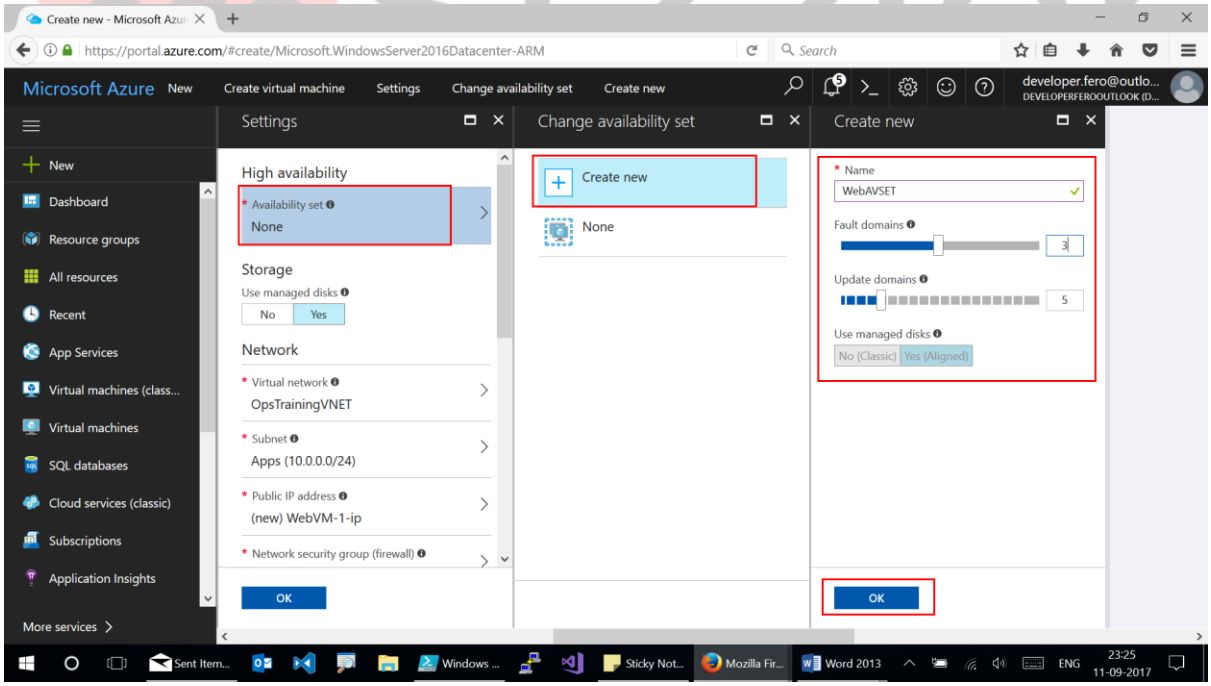


Size – F1 Standard

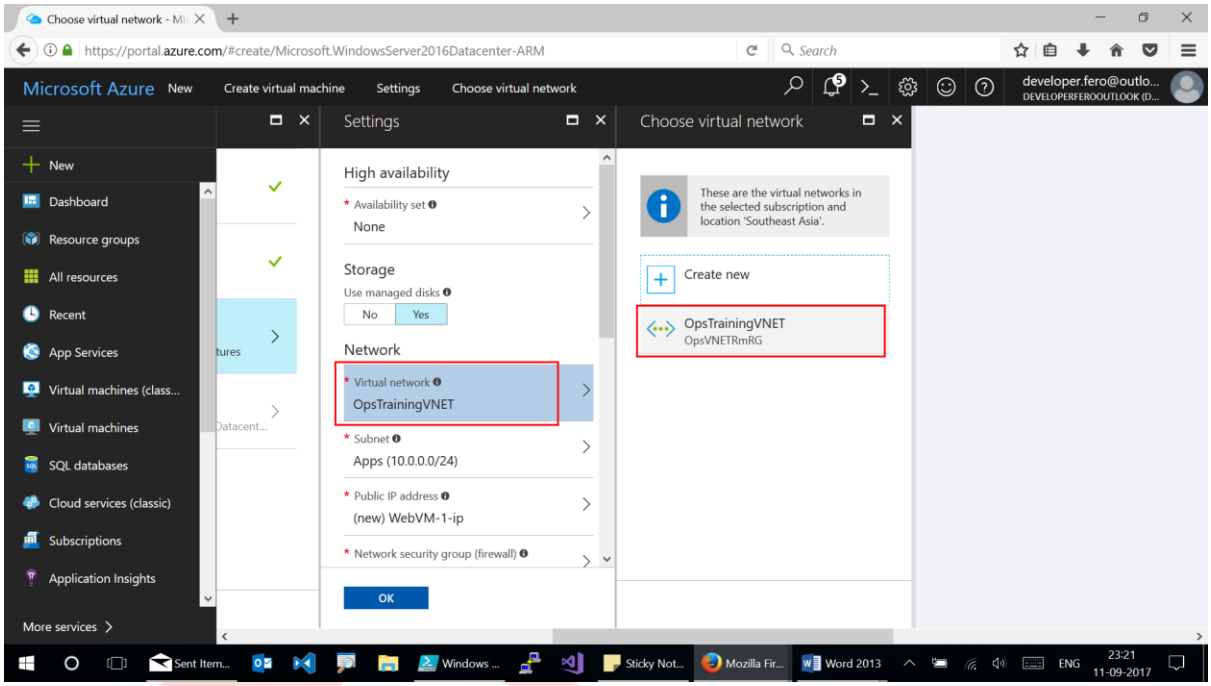


Settings –

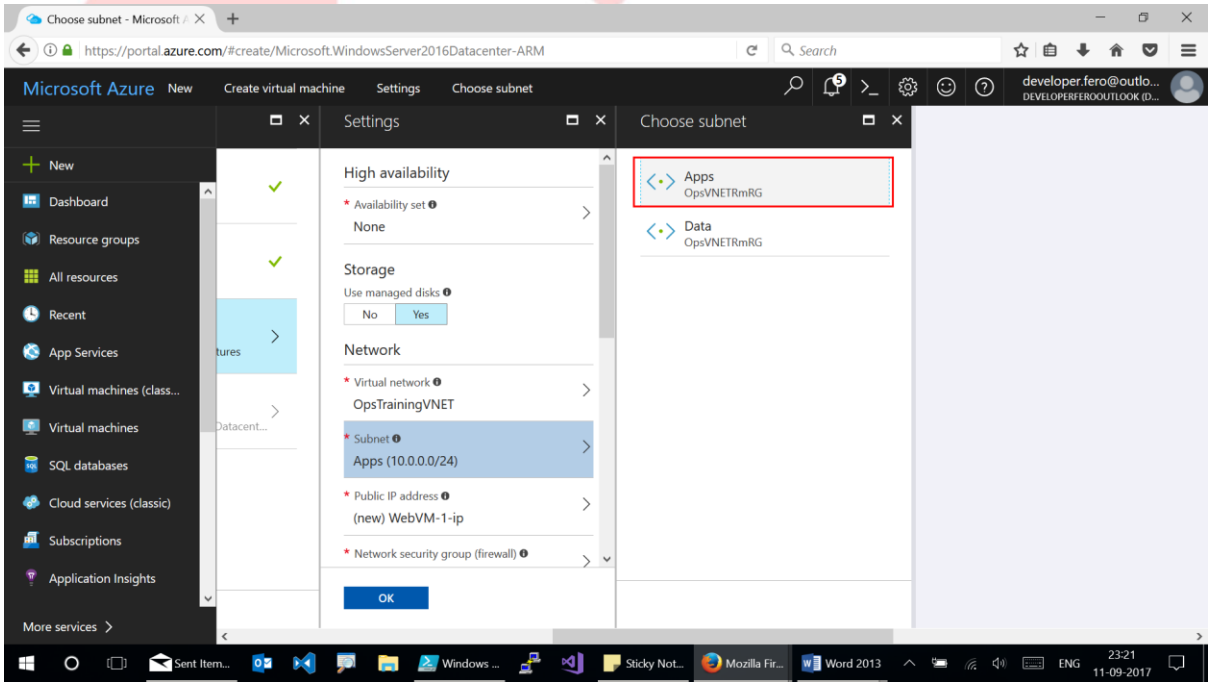
- Availability Set -
  Create new → Name (WebAVSET) | Fault Domains – 3 | Update Domains – 5



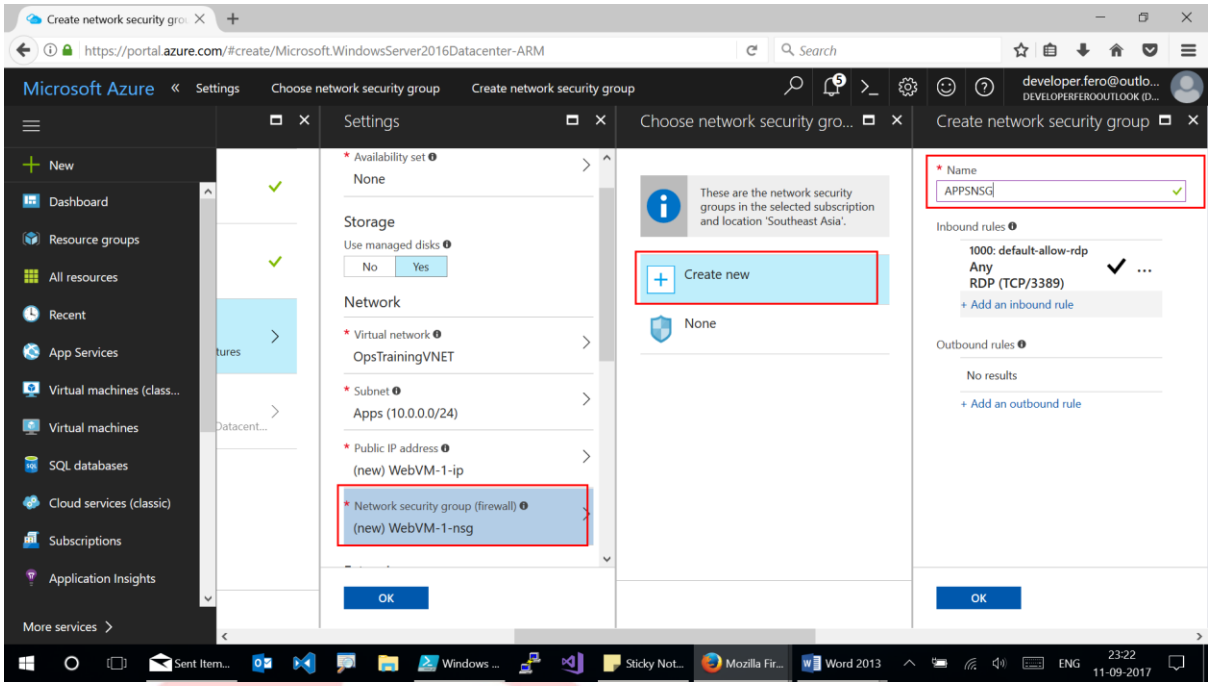
- Virtual Network – Select the v-net created before.

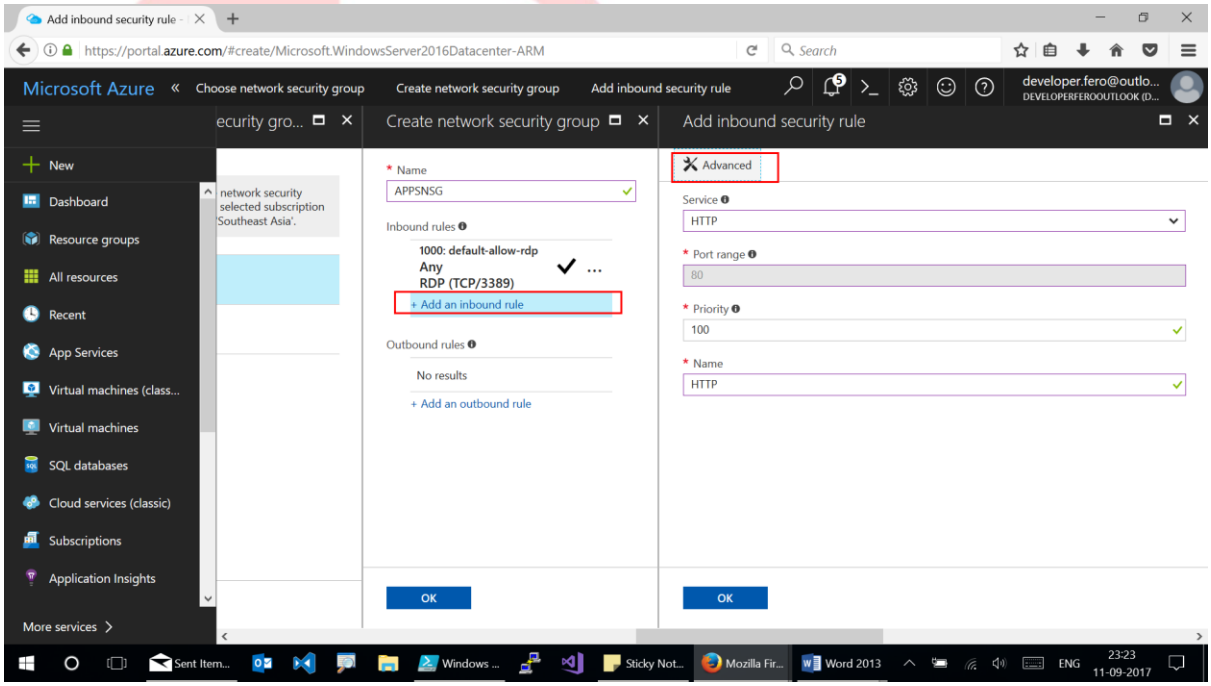


- Subnet – Select Apps as subnet if it is not selected by default.

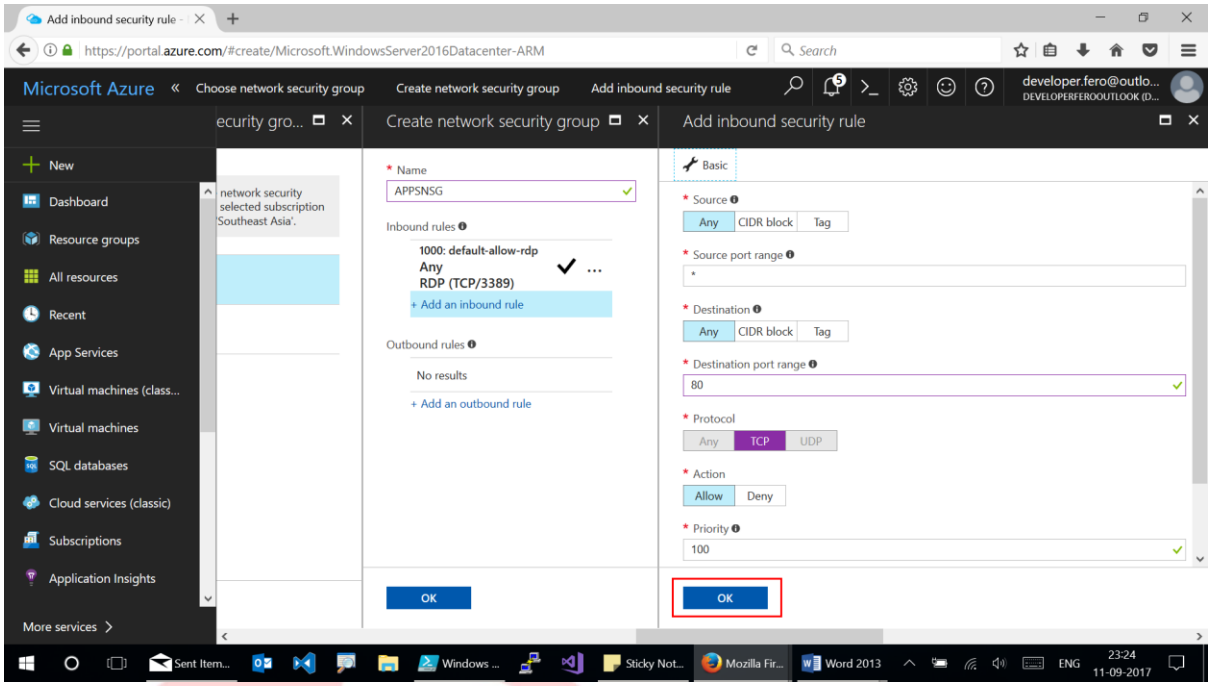


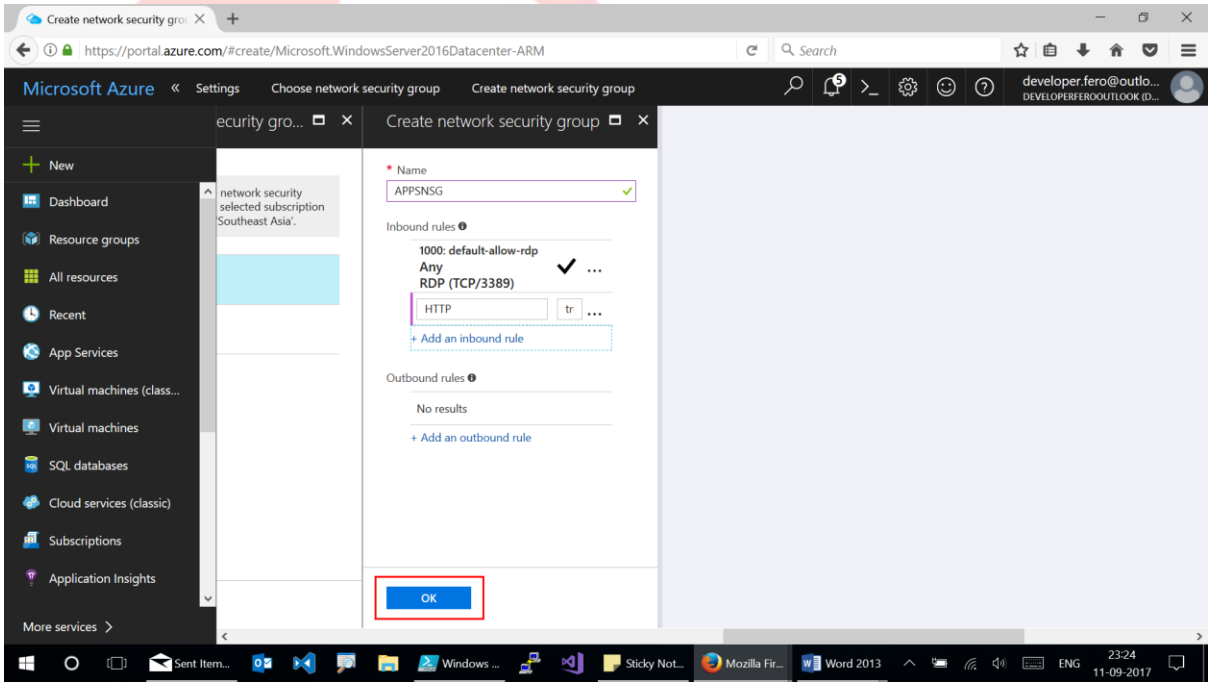
- Network Security Group (NSG) – Create new → name (APPSNSG)
  Add an inbound rule - Advanced
  → Name – HTTP
  →Priority – 100
  ➔ Source – Any
  ➔ Service – HTTP
  ➔ Protocol – fixed
  ➔ Port range – fixed
  ➔ Action - allow



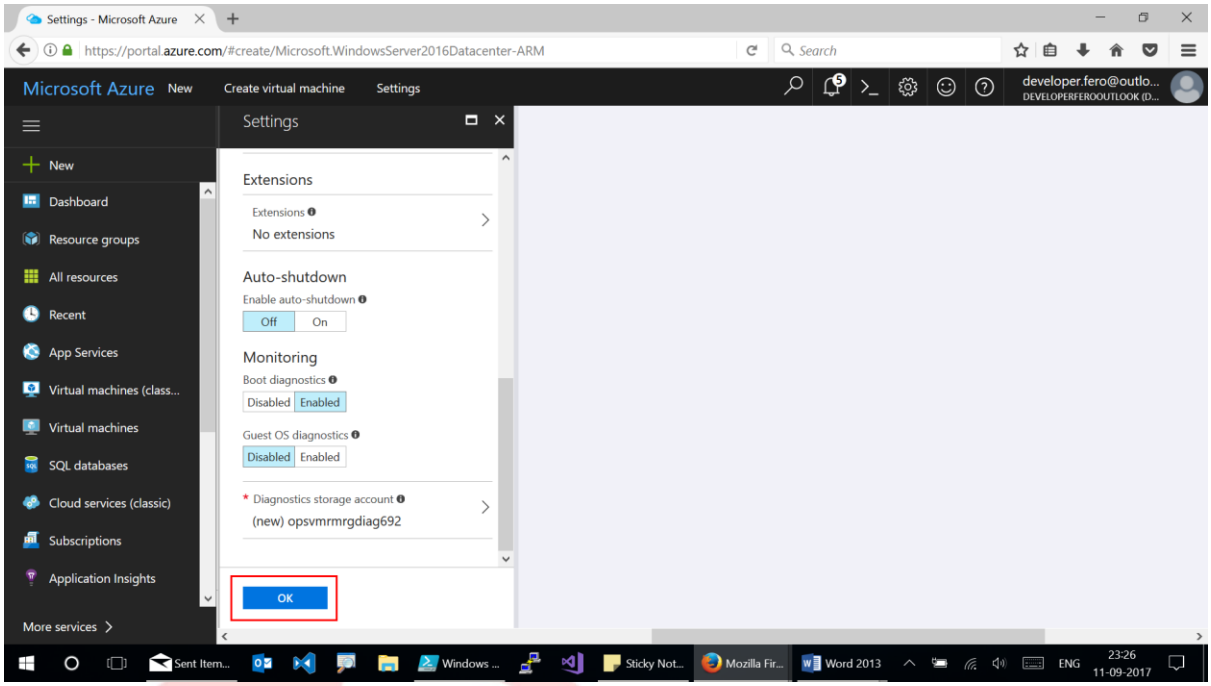


Click on OK to create it.

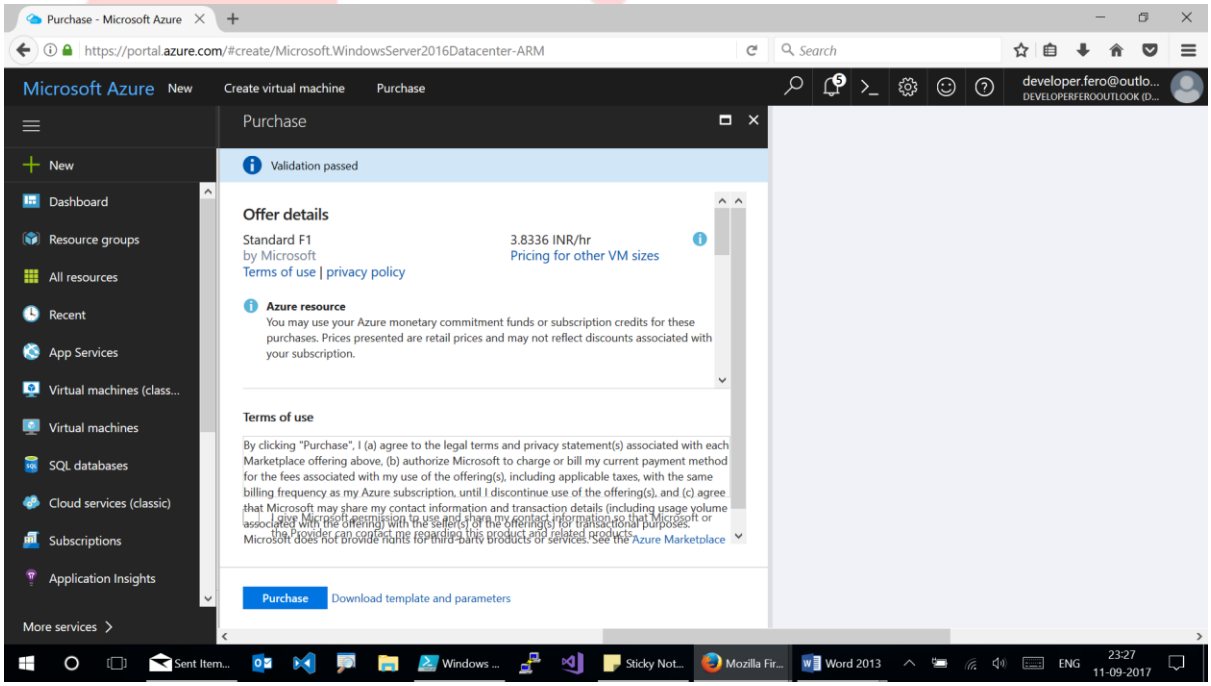




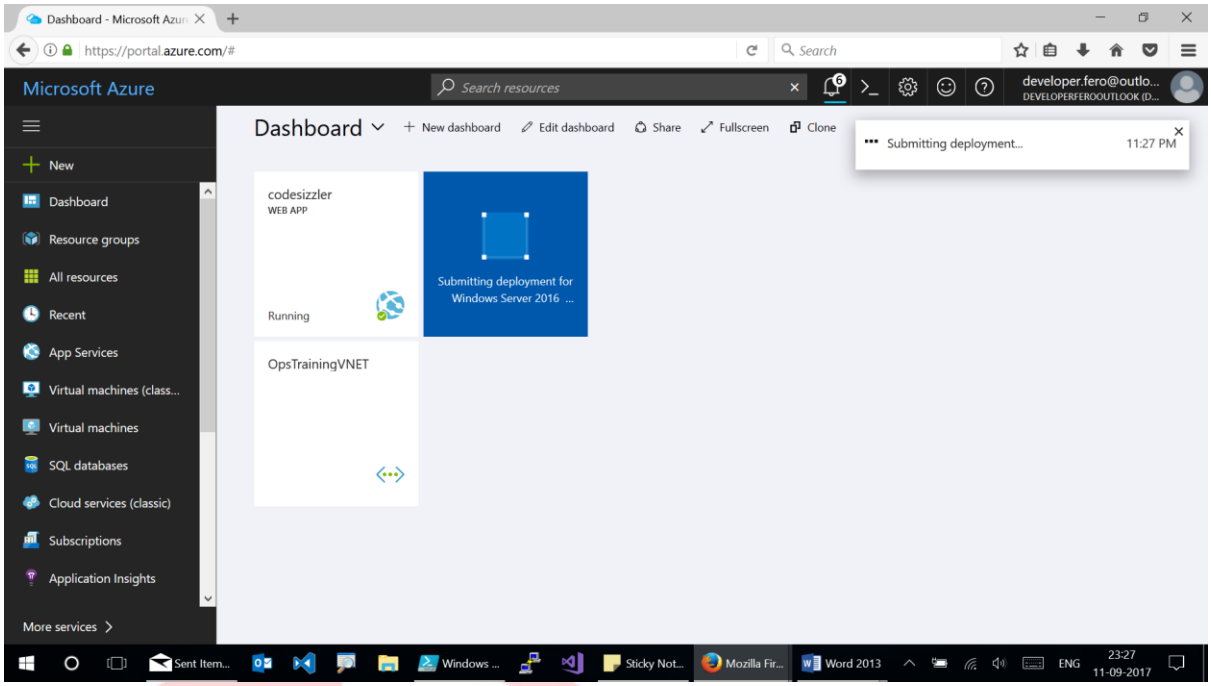
Click on “OK” to pass for the next blade.



Click on “Purchase” to create the Virtual Machine.



Here goes the VM getting deployed.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