Azure Migration Day

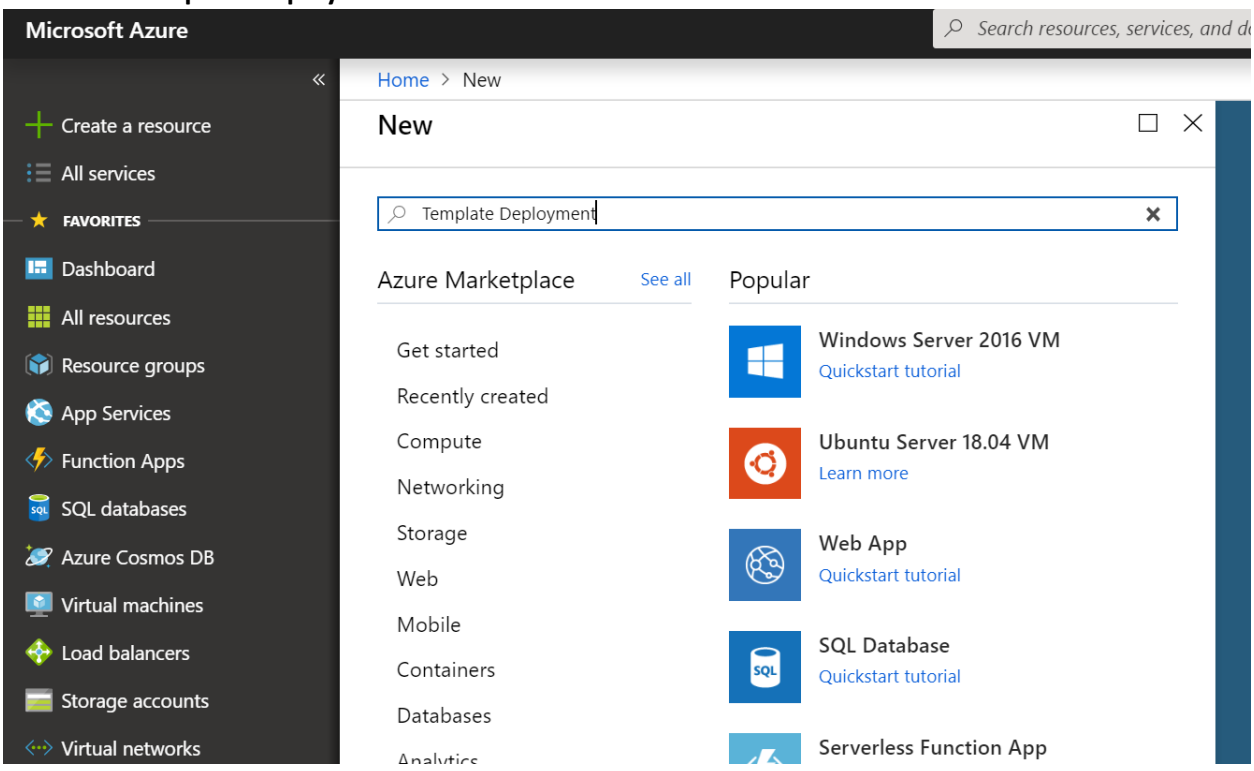
Activating Azure Pass

1. Browse to https://www.microsoftazurepass.com/
2. Click Start
3. Login with your Microsoft Account
4. Enter the Promo Code and click Claim Promo Code
5. Wait for a few minutes for the subscription to be provisioned
6. Login to https://portal.azure.com

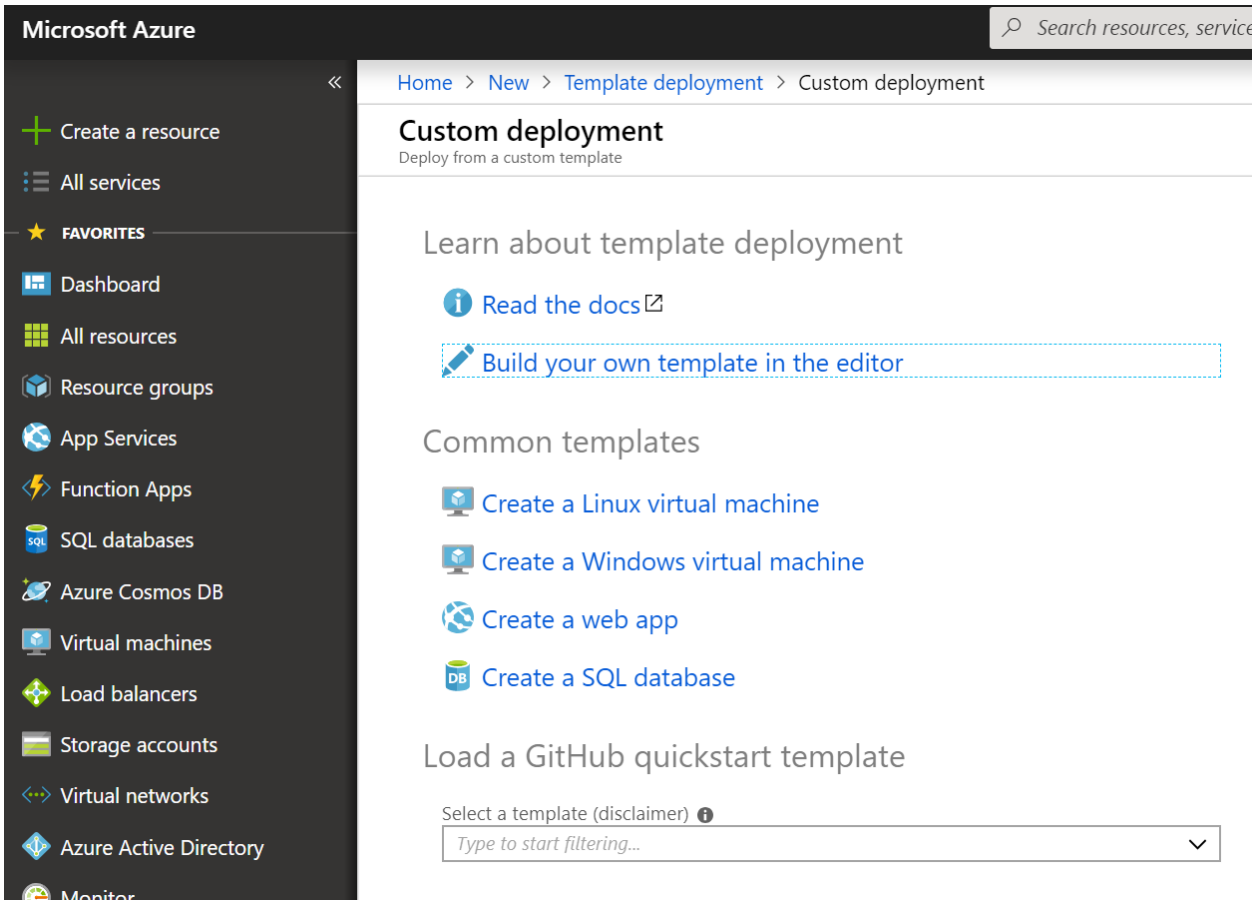
Setting up On Premise environment

The lab consists of a Hyper-V host with a Web Server and DB Server VMs. The lab environment is provisioned on Azure and must be considered as a small on premise environment.

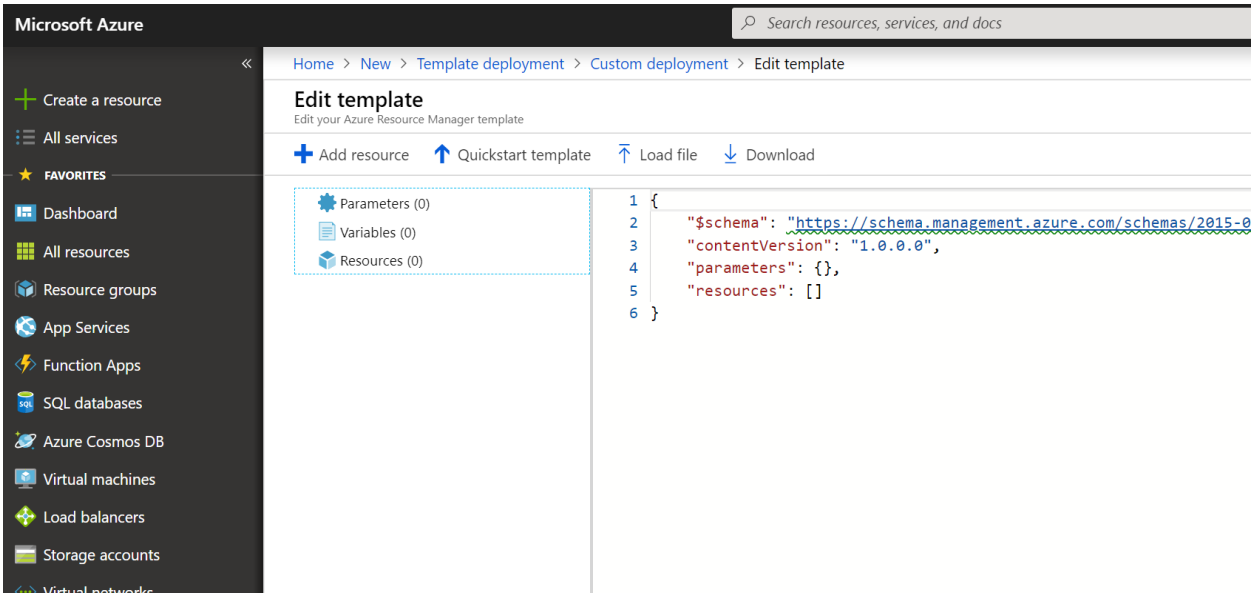
1. Login to https://portal.azure.com
2. Click Create Resource
3. Search for **Template Deployment**



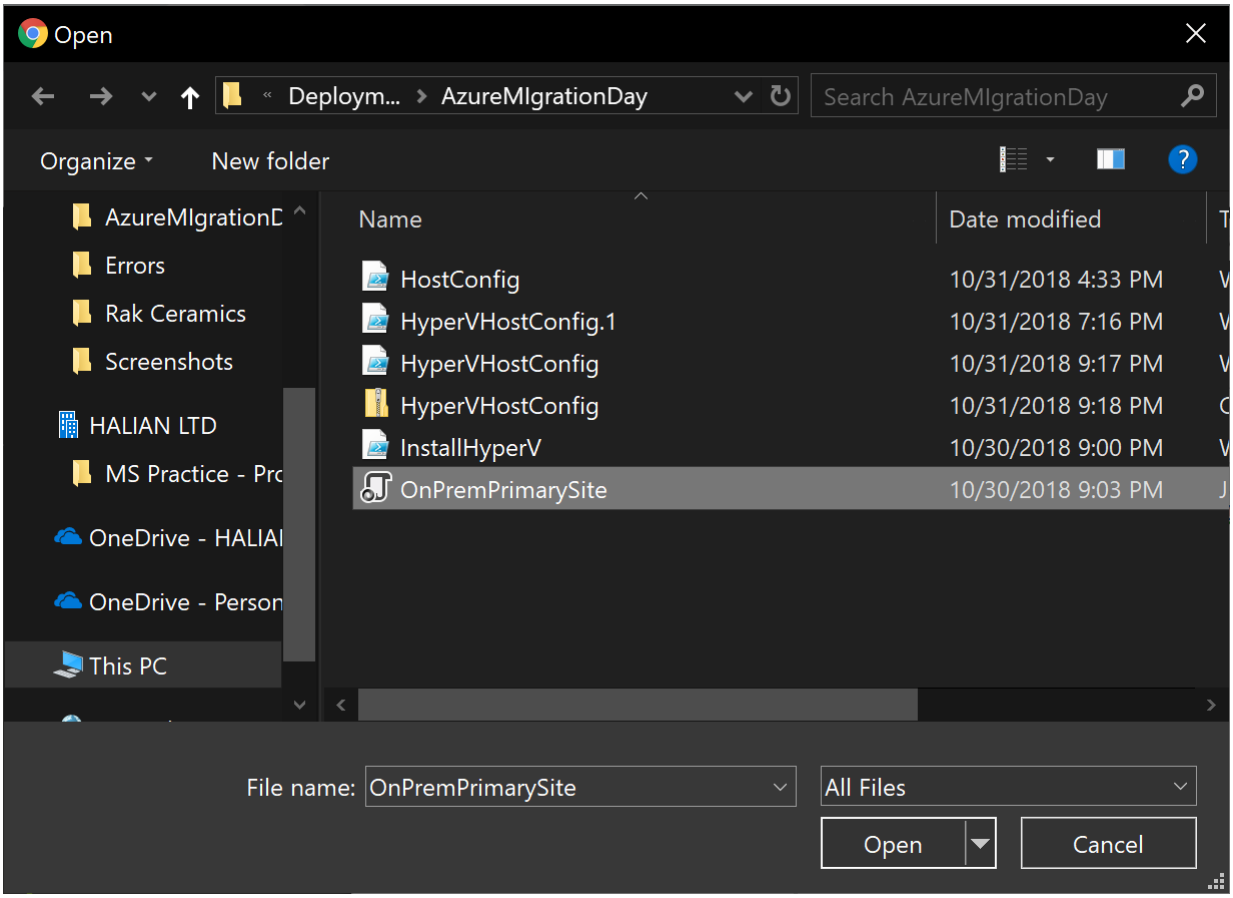
4. Click on Template Deployment
5. Click Create
6. Click Build your own template in the editor



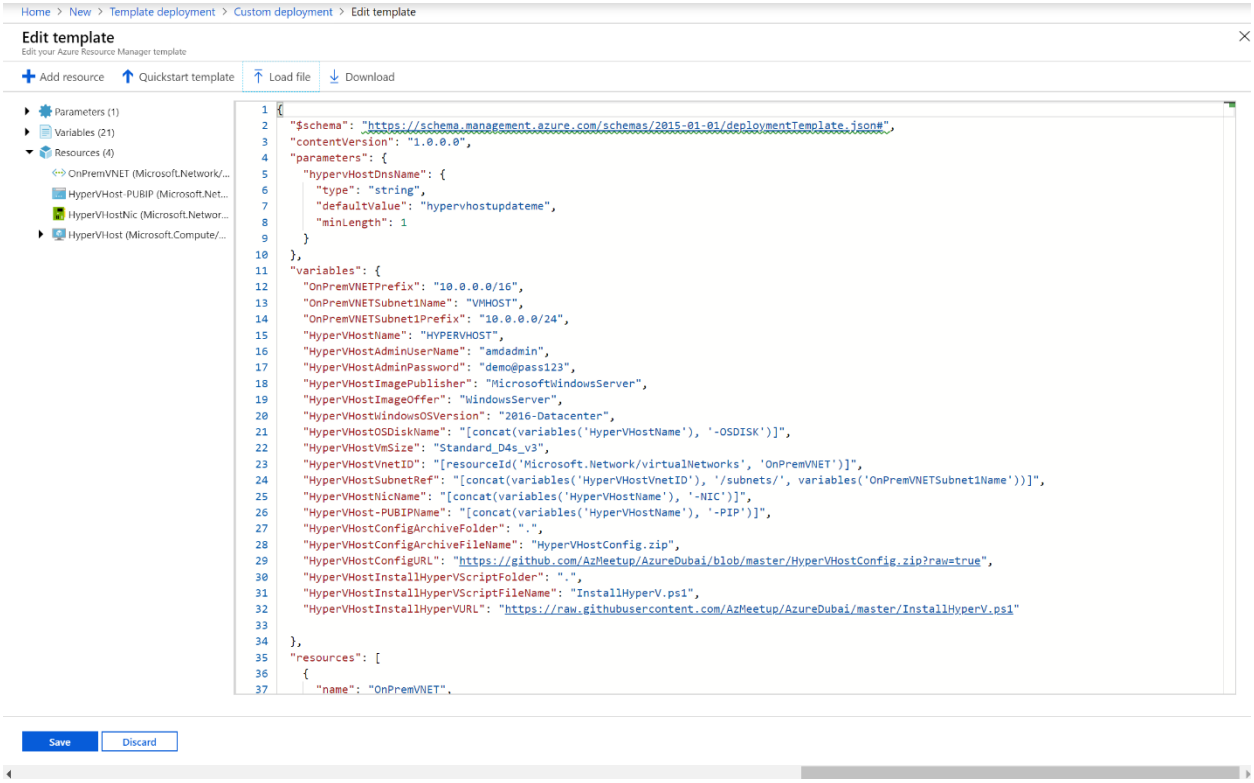
7. Click Load File



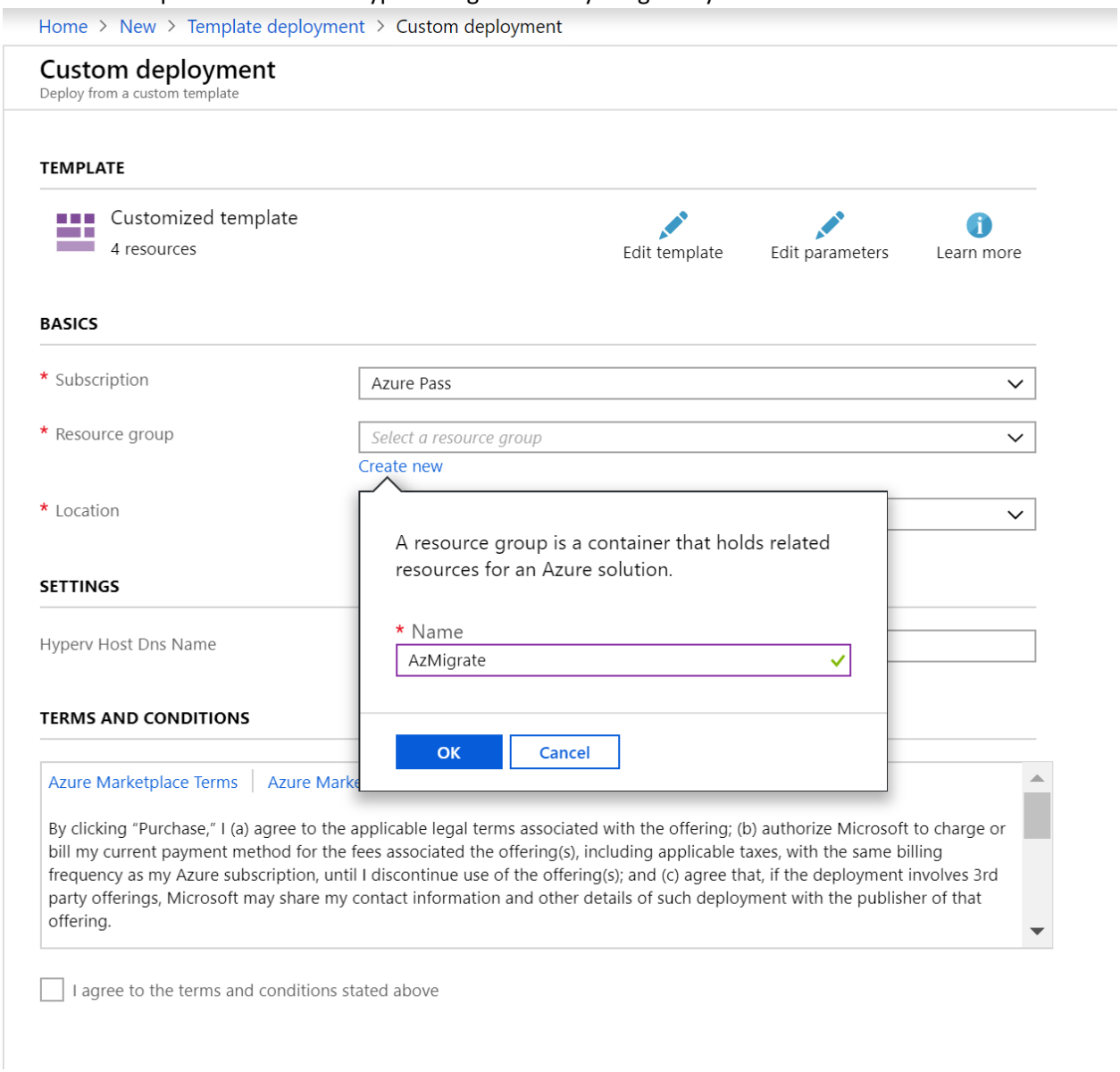
8. Select the OnPremPrimarySite.json and upload it



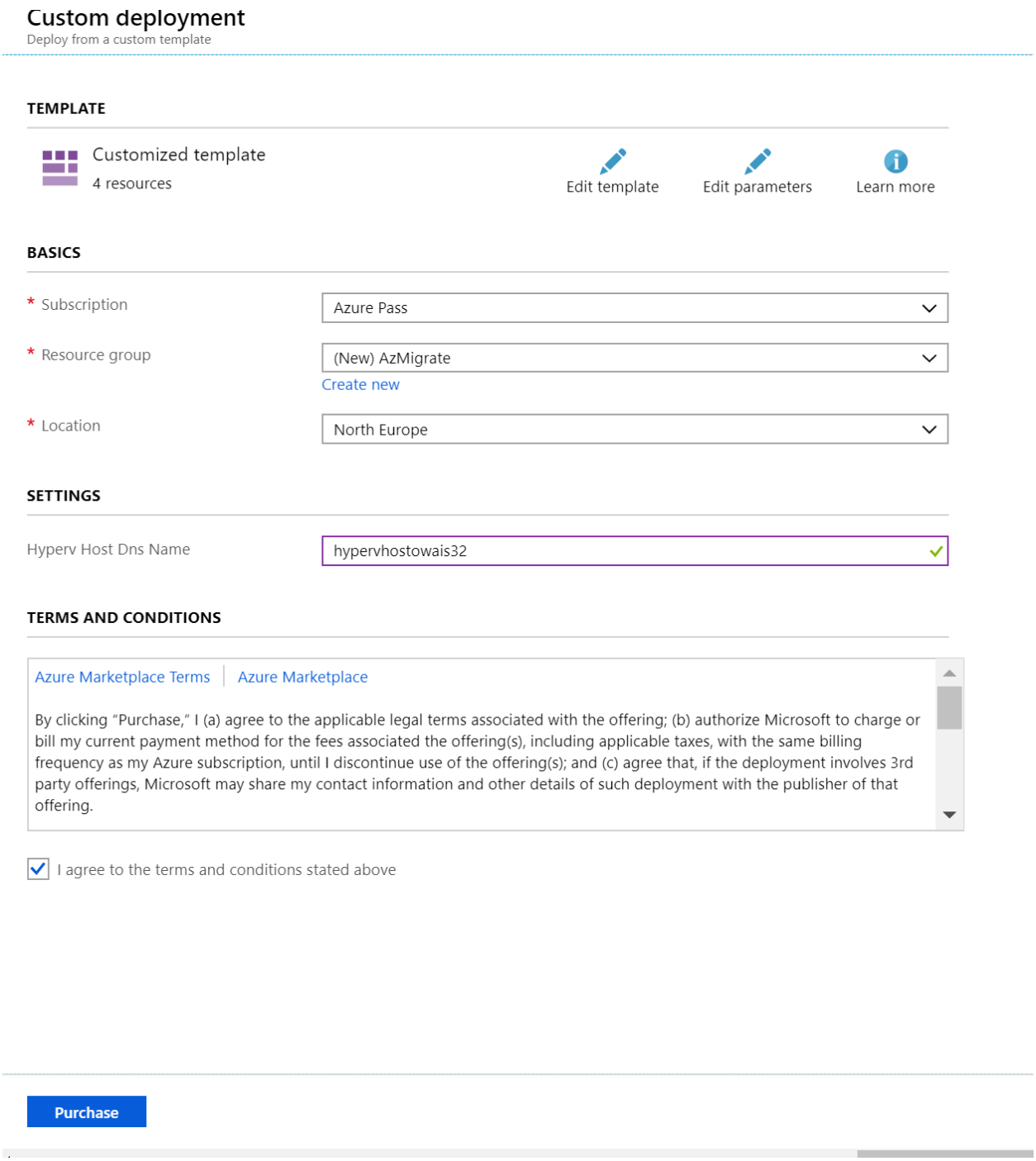
9. Review the template and click Save



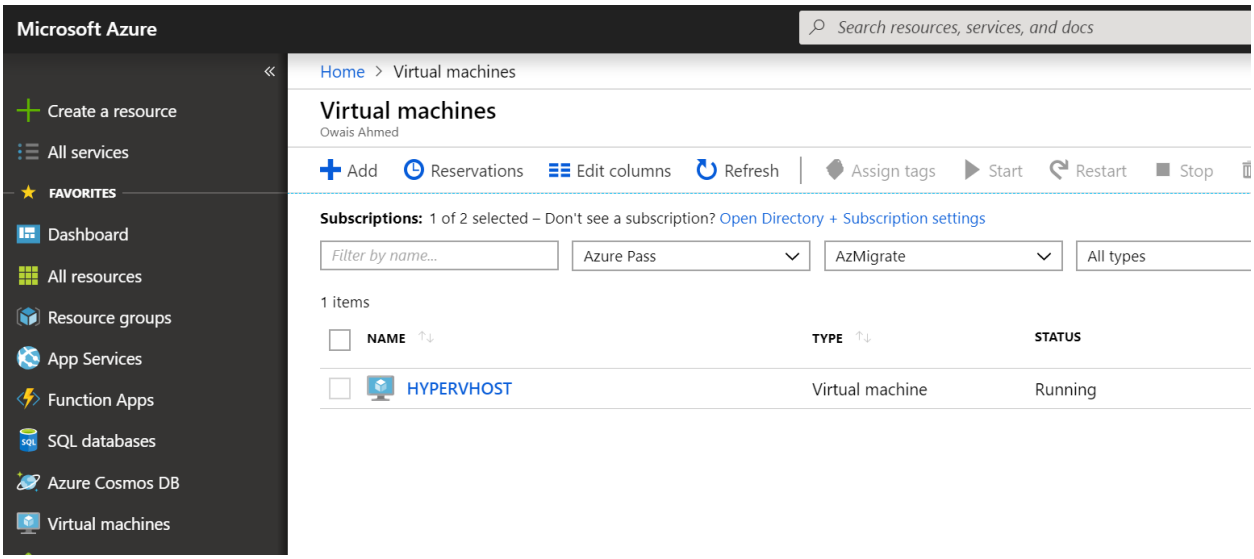
10. Resource Group - Click New and Type AzMigrate or anything easily identifiable



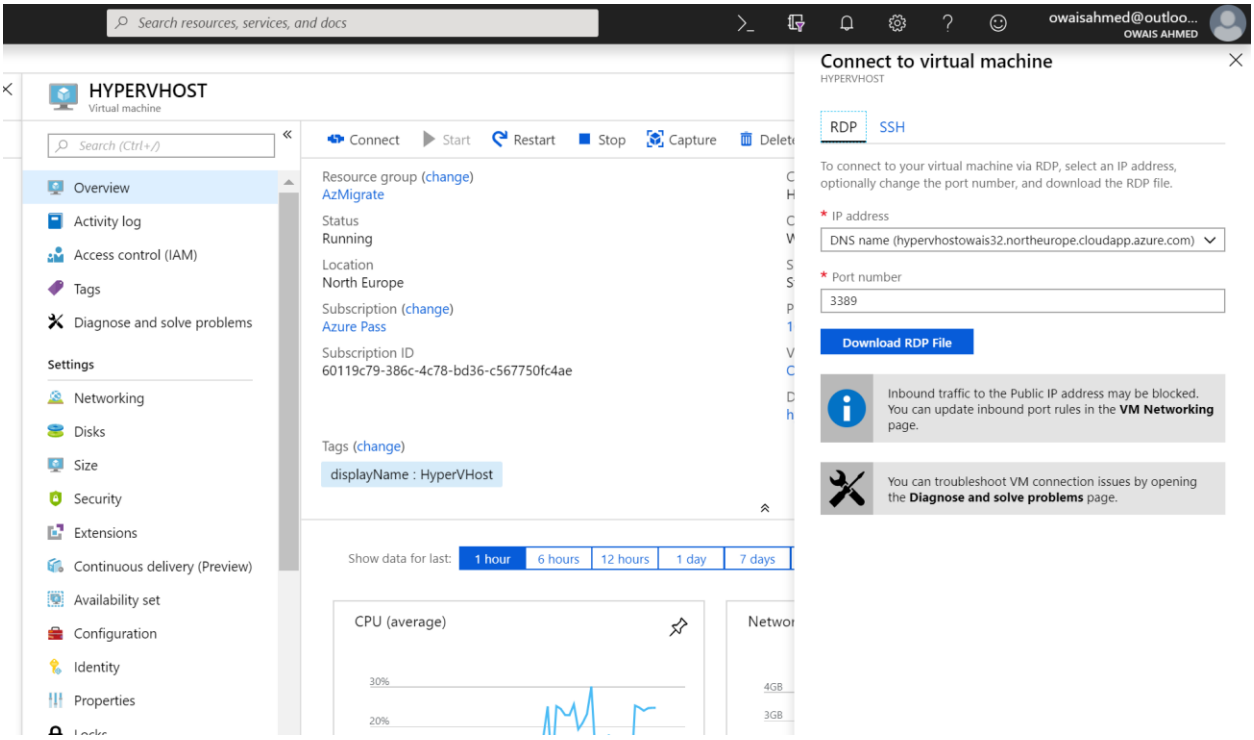
11. Location - Make sure the location is selected as **NORTH EUROPE.** Other locations will work but will prolong lab deployment time since lab files are hosted in North Europe
12. Hyper Host DNS Name - This needs to be unique. Delete the updateme part of the default name and put your name and last two digits of your phone number to make it unique.
13. Agree to the terms and conditions
14. Click Purchase
15. The deployment will take 20-30 mins



16. Once the deployment is complete, click on Virtual Machines on the left and then click on HYPERVHOST

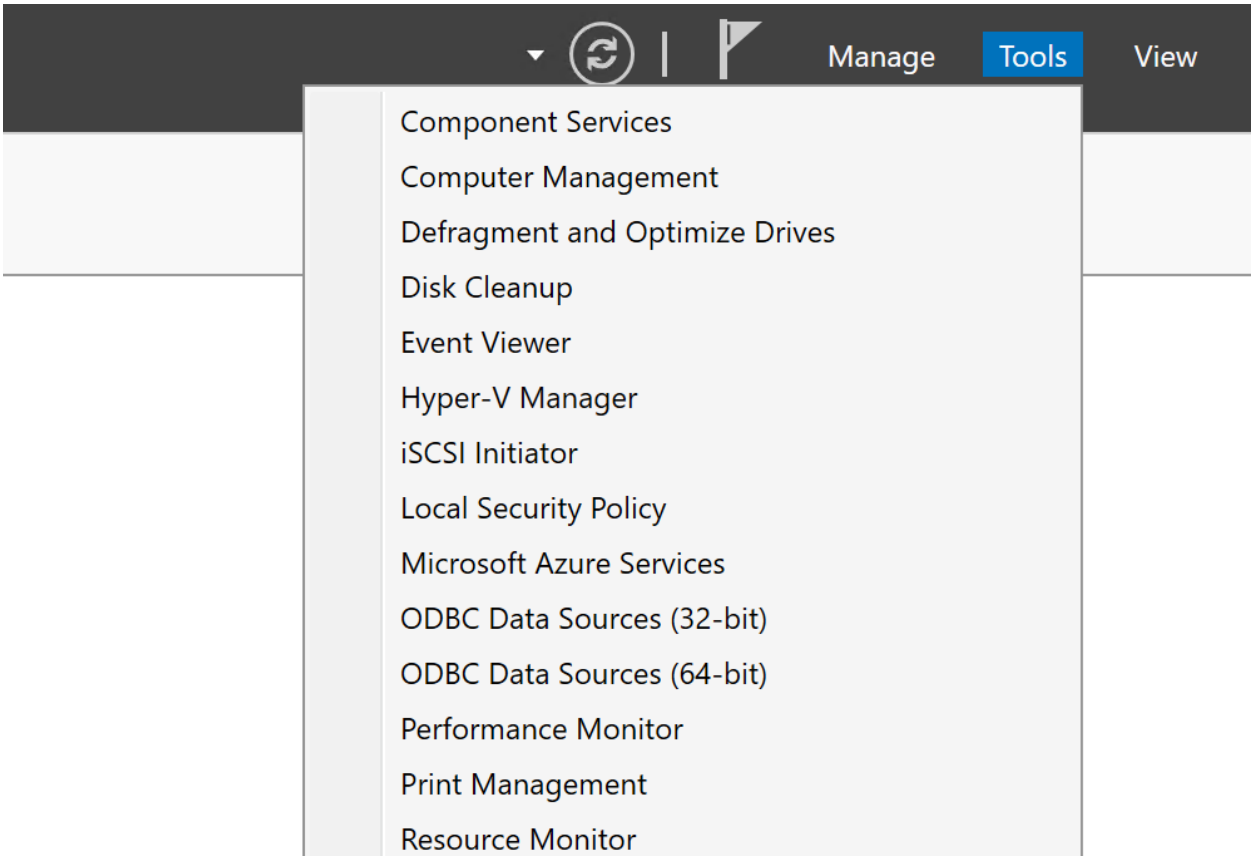


17. Click Connect and then click on Download RDP File

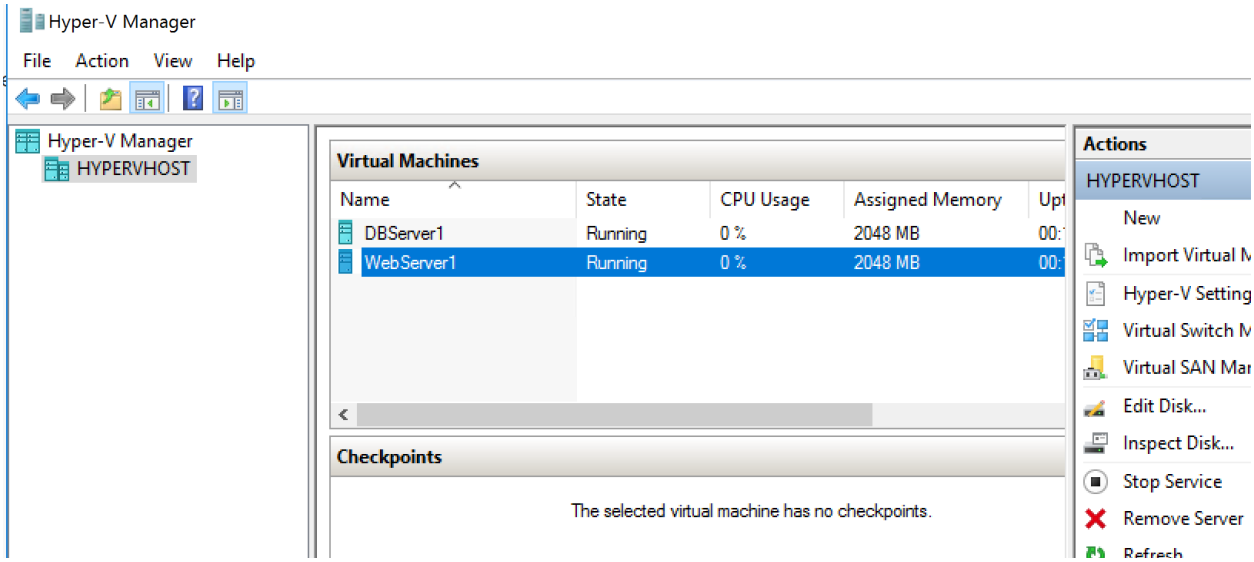


NOTE: IT IS NOT RECOMMENDED TO ALLOW PUBLIC RDP ACCESS IN PRODUCTION

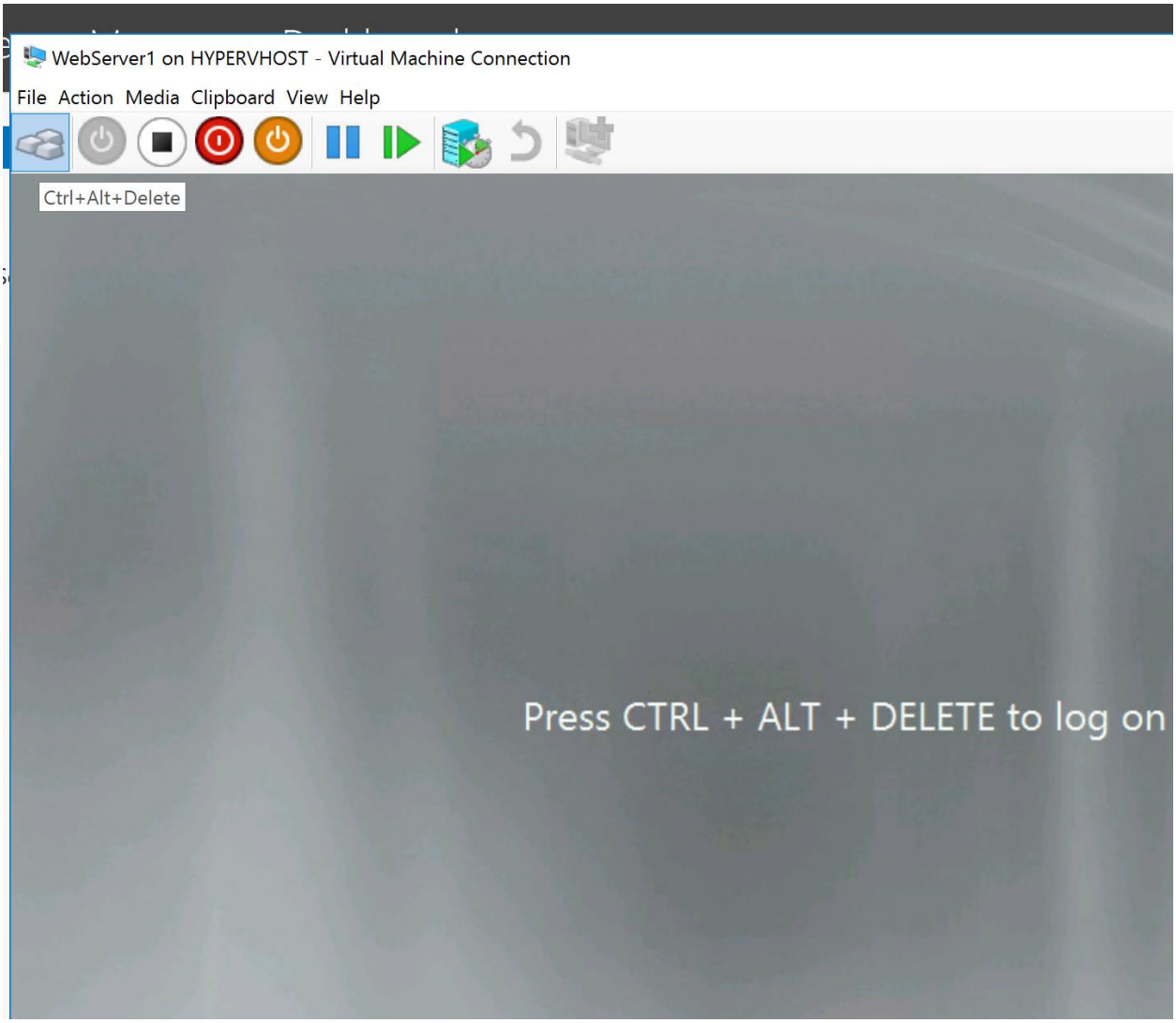
18. Login to the server with the following credentials
    a. amdadmin
    b. demo@pass123
19. Open Server Manager and go to Tools->Hyper-V Manager



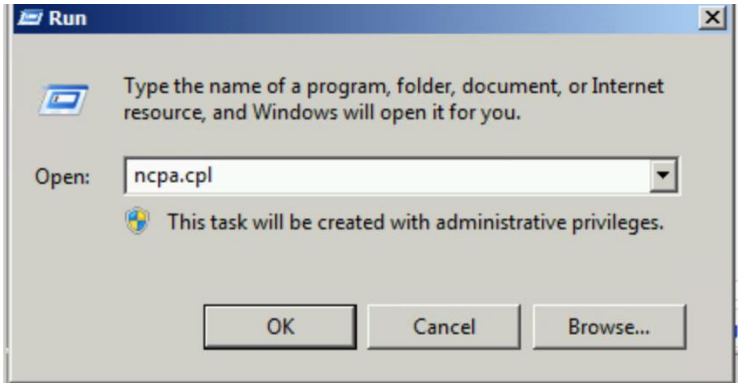
20. Verify if Web Server and DB Server VMs are running



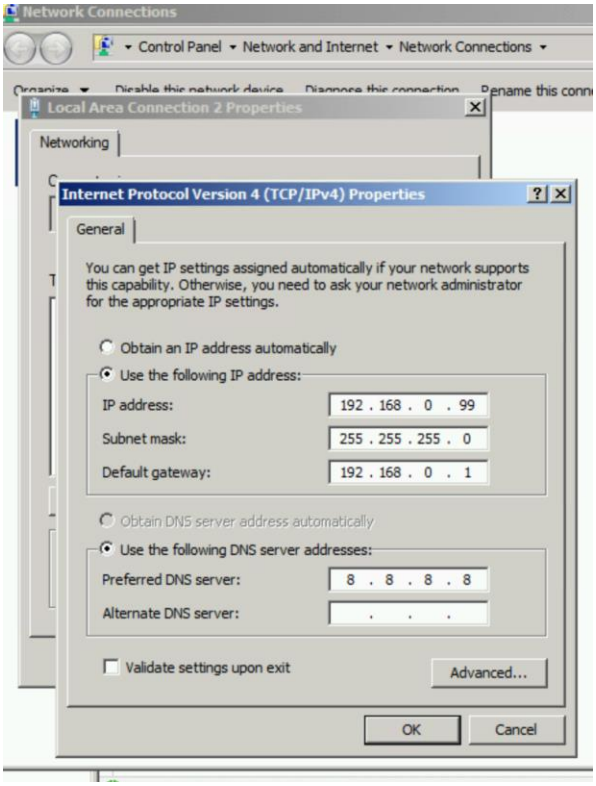
21. Double Click on WebServer1
22. Press the CTRL+ALT+DEL button



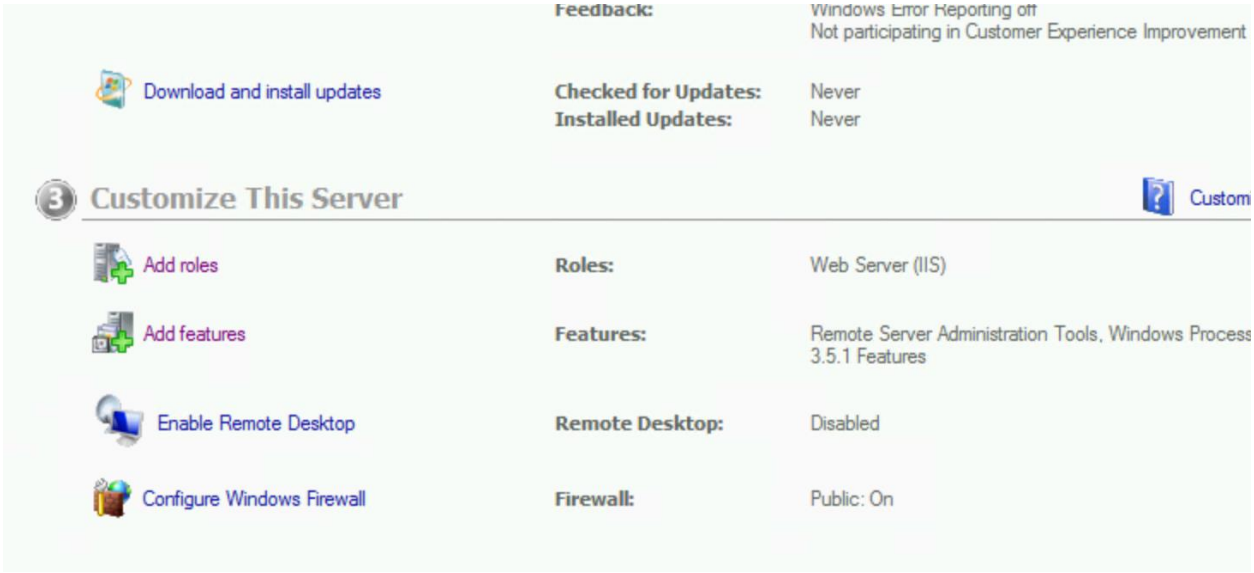
23. Password – P@ssw0rd
24. Open Run and type ncpa.cpl



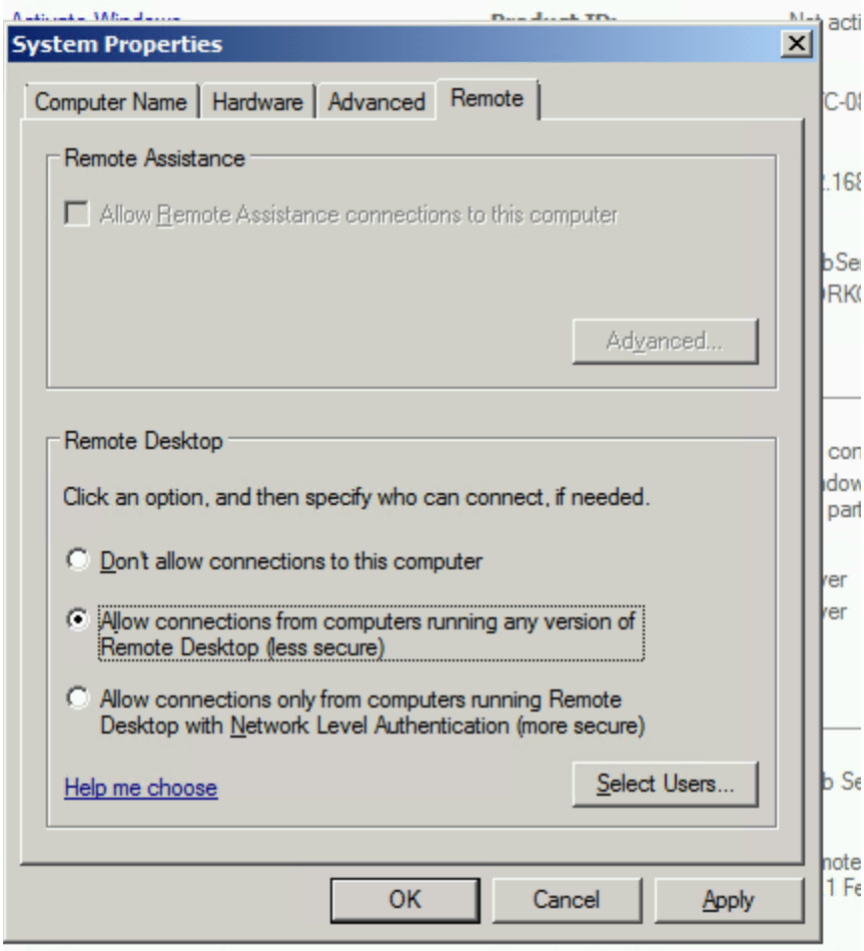
25. Modify the network properties and set the following IP Address and Click OK.



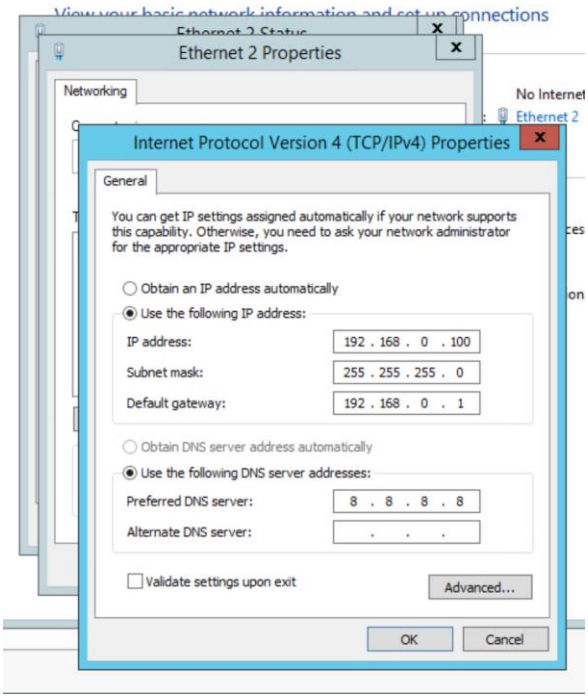
26. If you get any warning, click yes to proceed.
27. Go to Server Manager
28. Click on Enable Remote Desktop



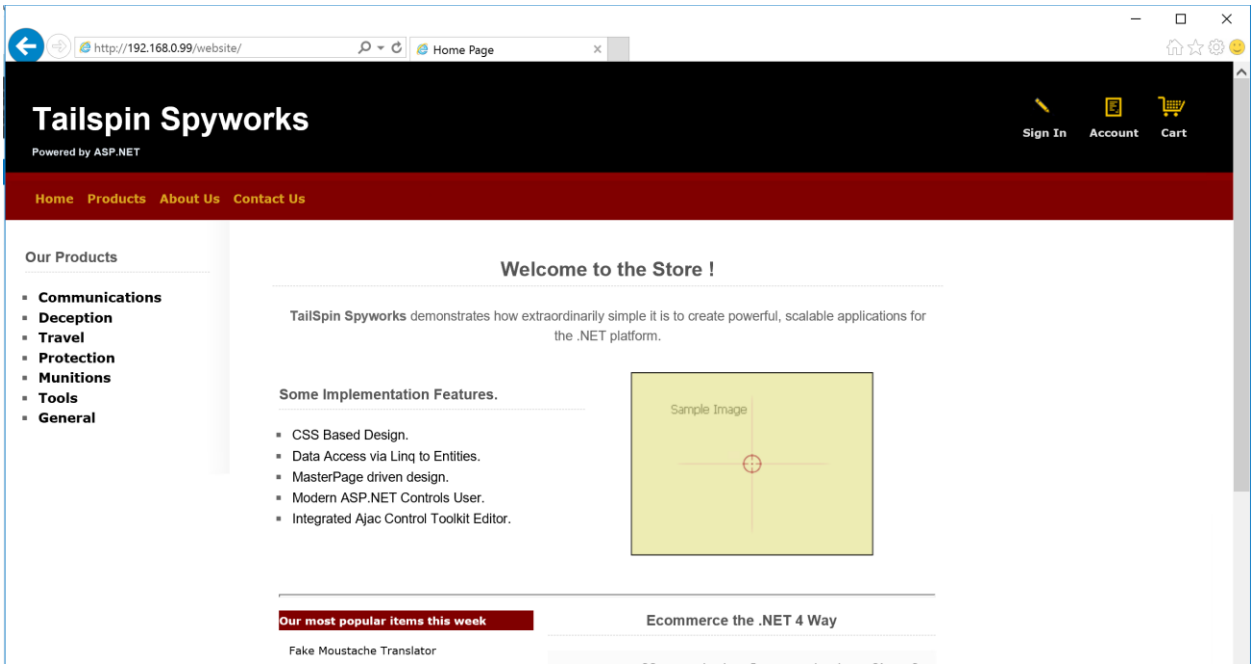
29. Select Allow Remote Connections from Any Computer



30. Click OK and Apply
31. Go back to Hyper-V Manager and double click on DBServer1
32. Login with the password – P@ssw0rd
33. Configure the IP Address with the following details



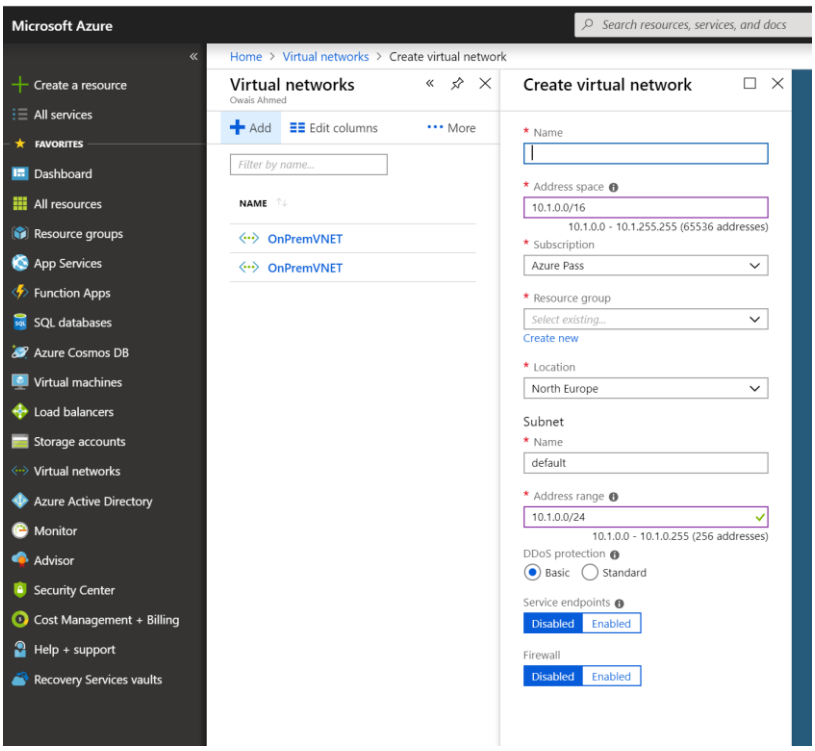
34. Open a browser on the HyperV host and type 192.168.0.99/website
35. The TailSpin website should be up and running



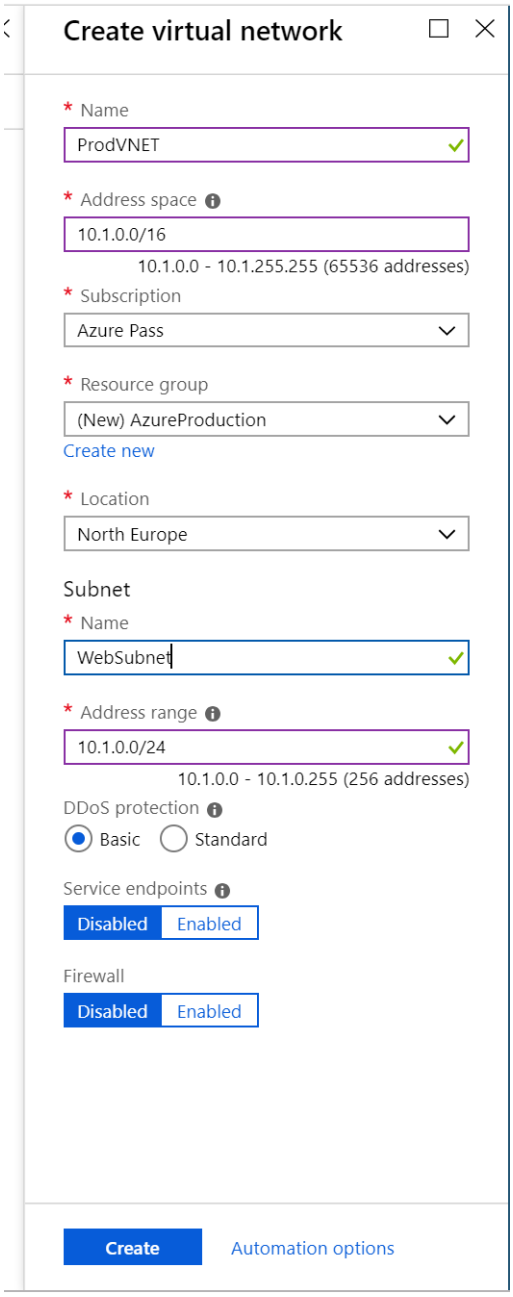
Prepare for Migration

To migrate our VMs to Azure, we need to create a few resources on Azure.

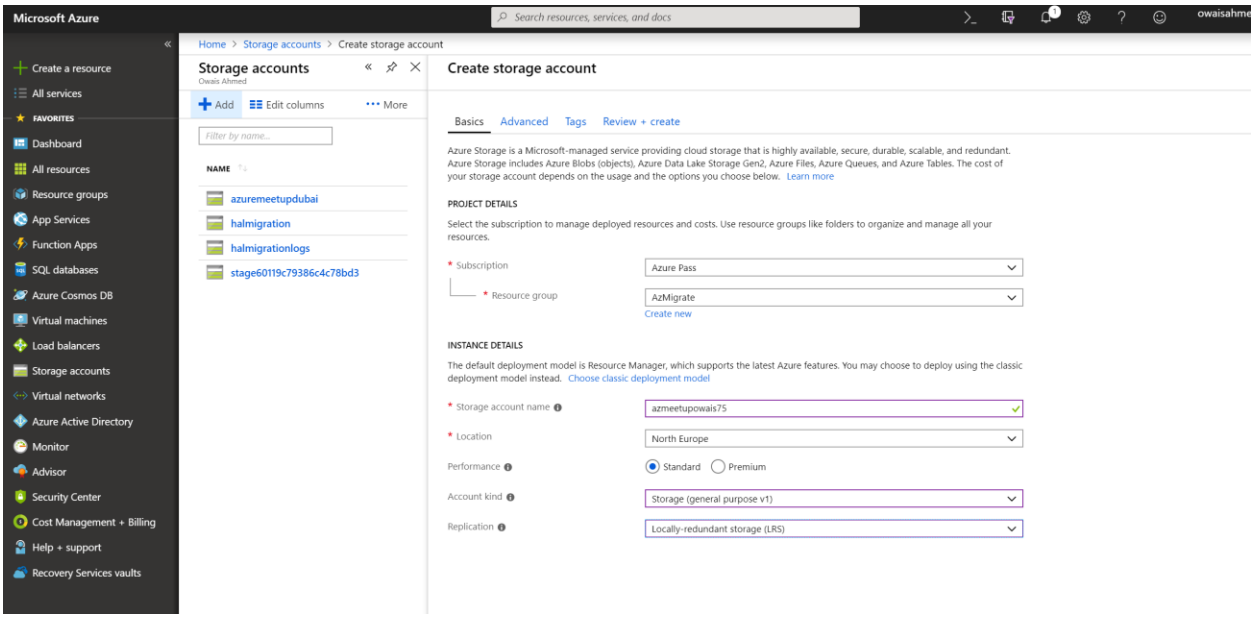
1. Click Virtual Networks on the left and then click ADD



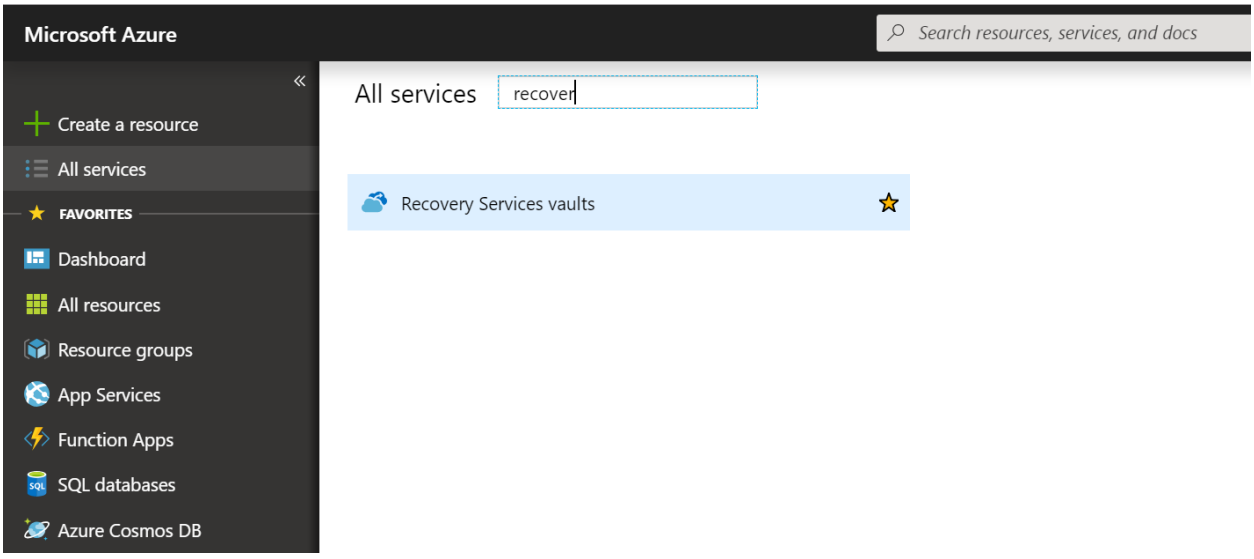
2. Use the following details
    a. Name – ProdVNET
    b. Address Space – 10.1.0.0/16
    c. Resource Group – Create New – AzureProduction
    d. Location – North Europe
    e. Subnet – WebSubnet
    f. Address Range – 10.1.0.0/24



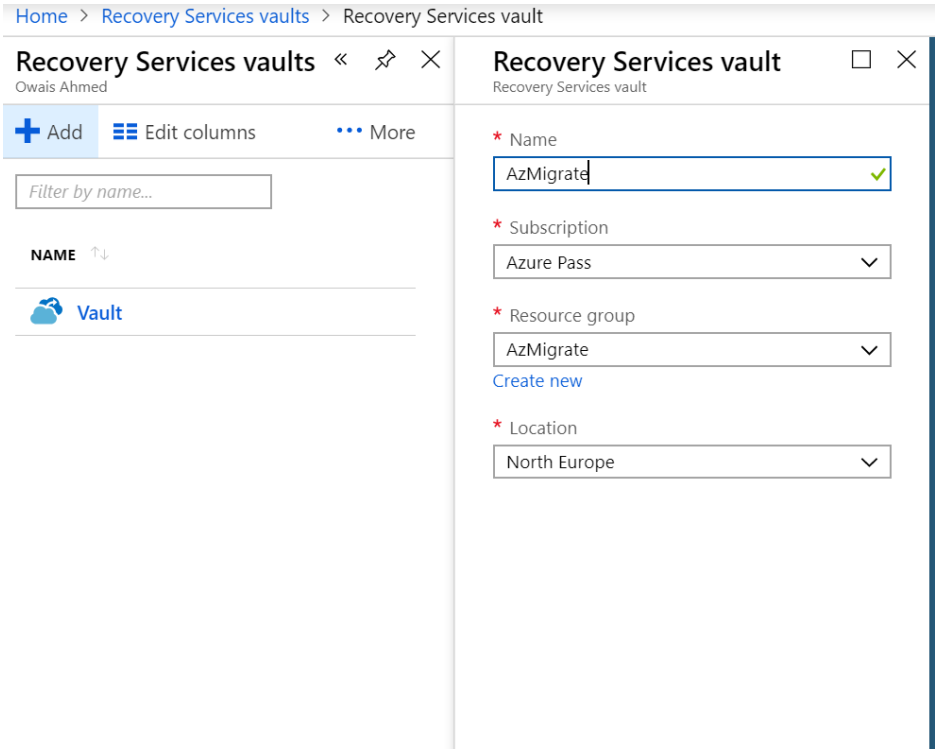
3. Click Create
4. Click Storage Accounts on the left and click Add



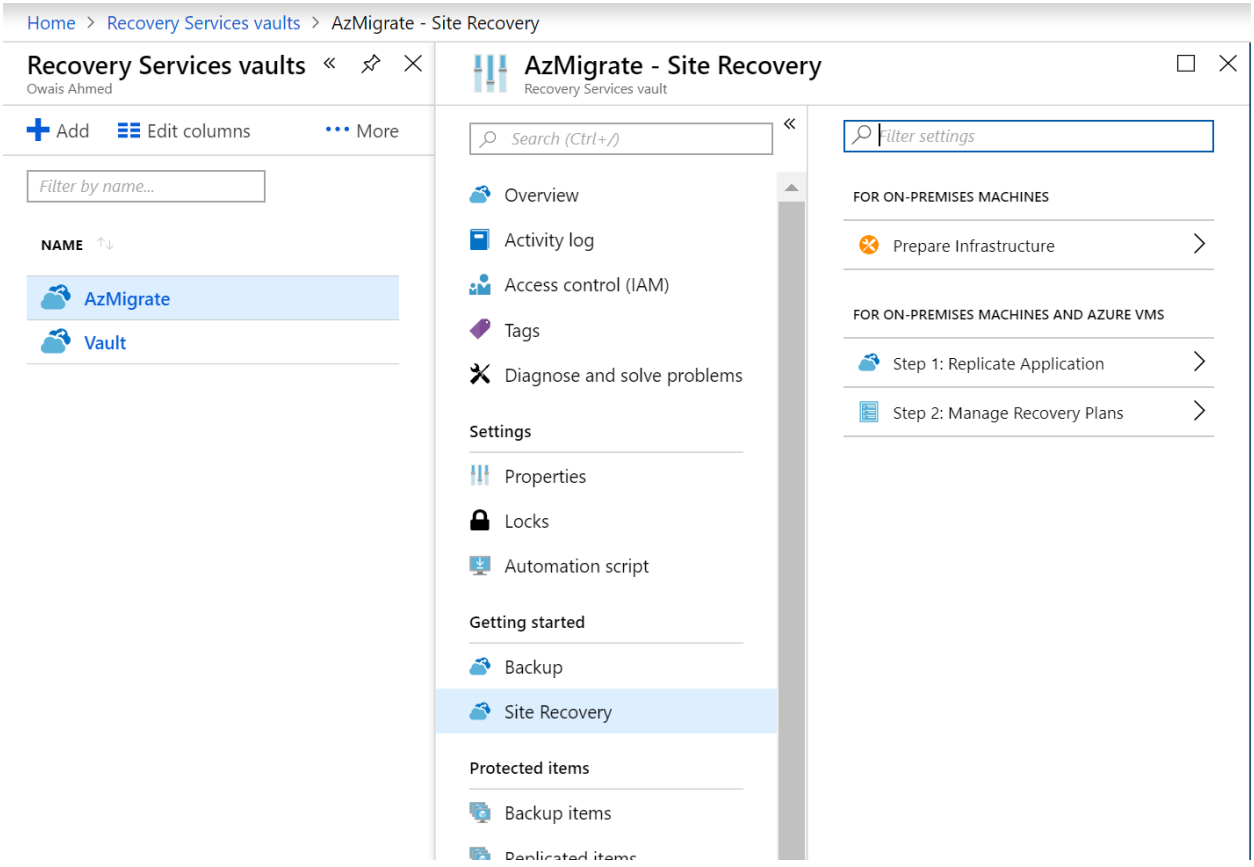
5. Use the following details
    a. ResourceGroup – AzMigrate
    b. Storage account name – azmeetupyour***namelasttwodigitsnumber***
    c. Location – North Europe
    d. Performance – Standard
    e. Account kind – Storage (general purpose v1)
    f. Replication – LRS
6. Click Review+Create and then click Create
7. Click All Services on the left and search for Recovery Services Vault



8. Click Add and use the following details

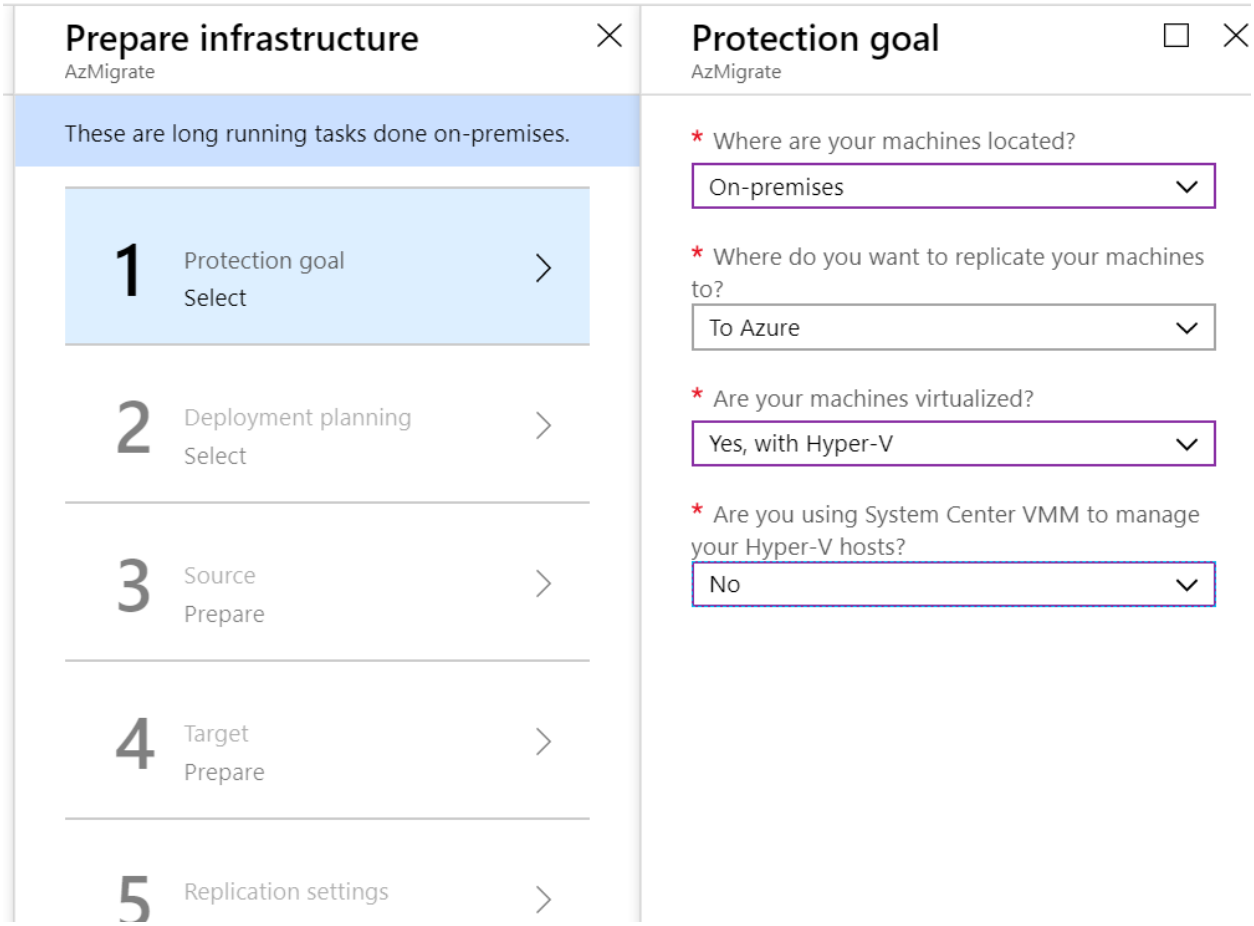


9. After the deployment is complete, click on the newly created vault
10. Click on Getting Started -> Site Recovery

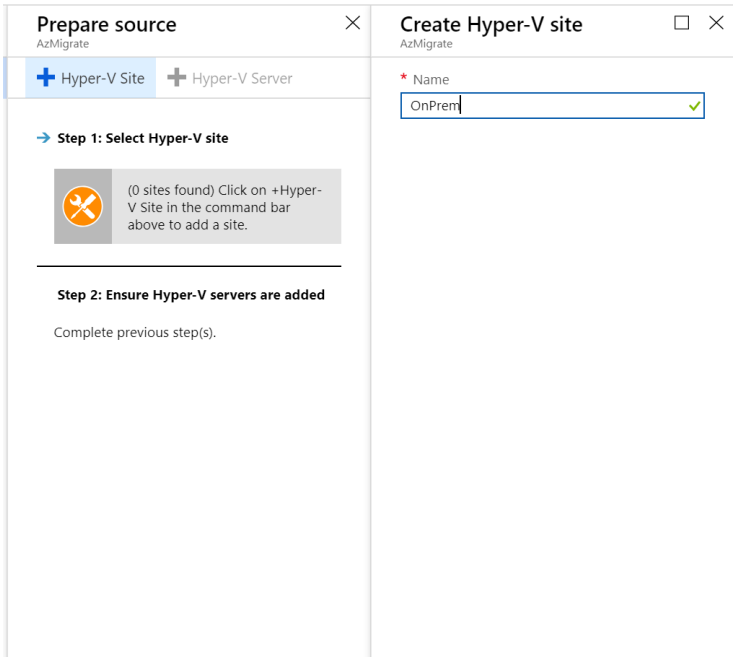


11. Click Prepare Infrastructure

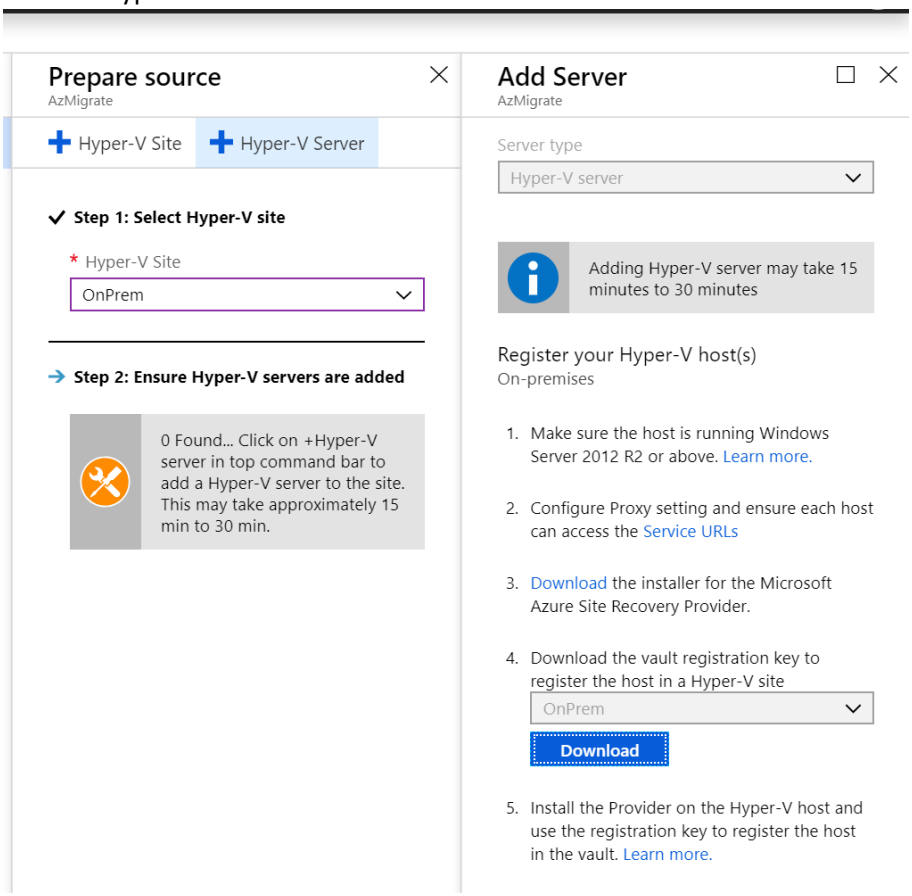
12. Use the following details and click ok



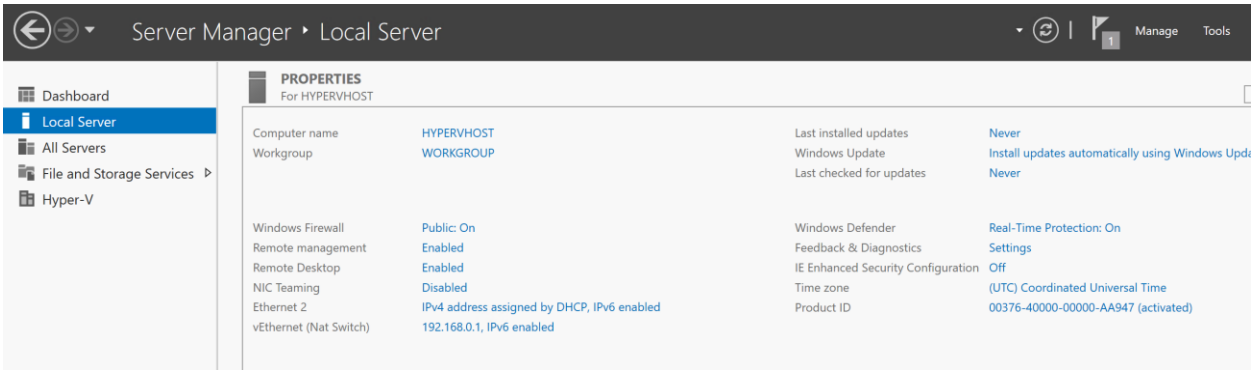
13. In the Deployment Planning pane, select I will do it later and click Ok
14. In the Source Pane, click Add Hyper-V Site and give it a name. Eg. OnPrem



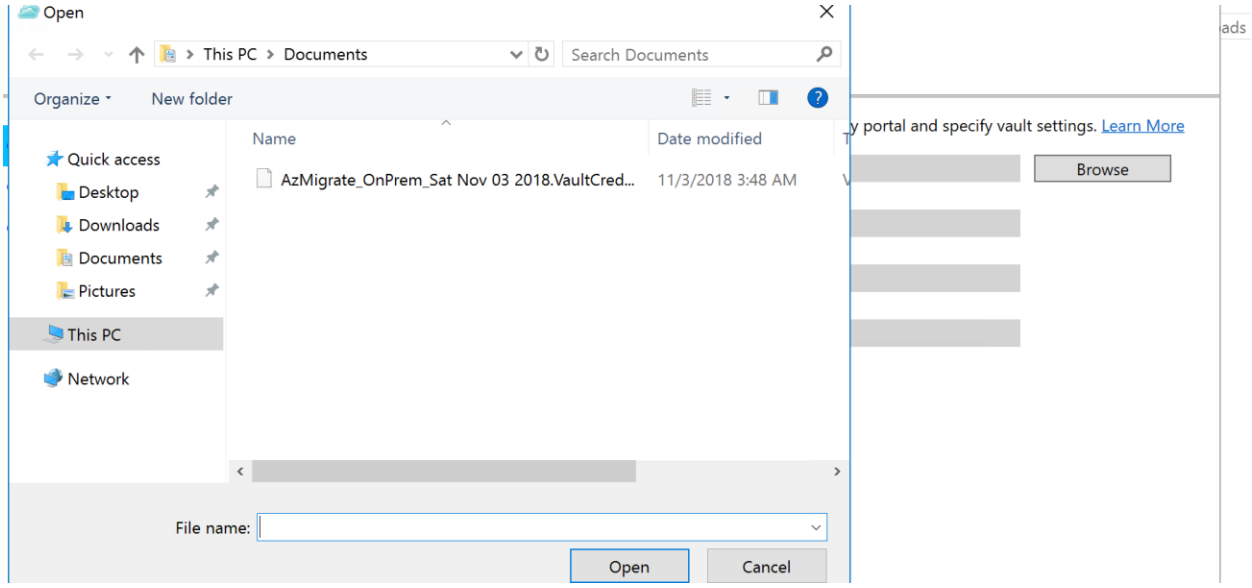
15. Click on Hyper-V Server



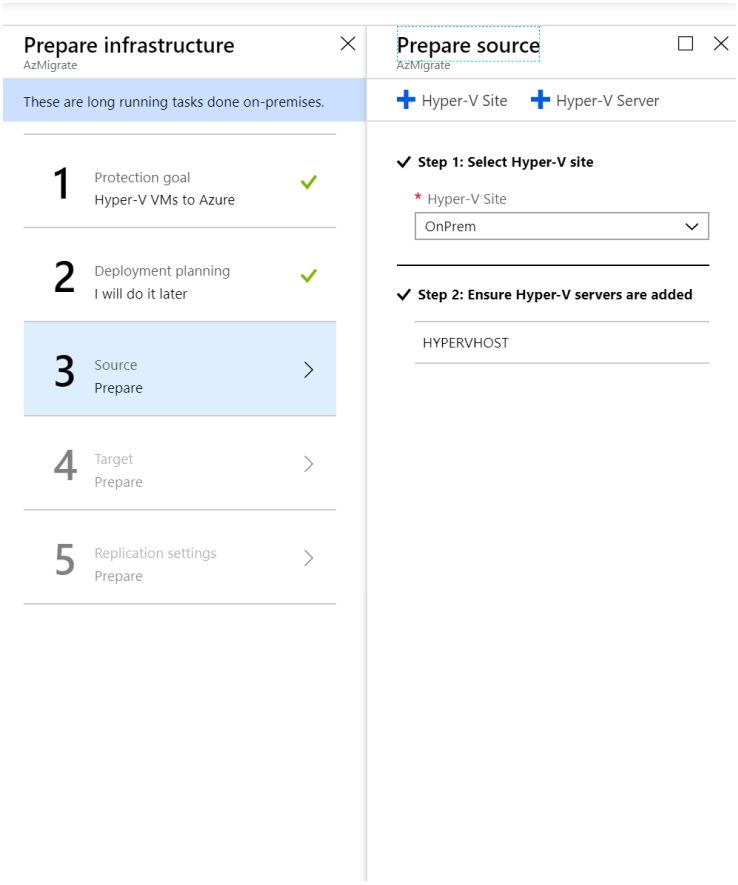
16. Download Vault registration file and copy it to the Hyper-V Host.
17. Open the browser on the Hyper-V Host and type http://aka.ms/downloaddra_ne
18. If you are unable to download, switch of IE Enhanced Security from Server Manager



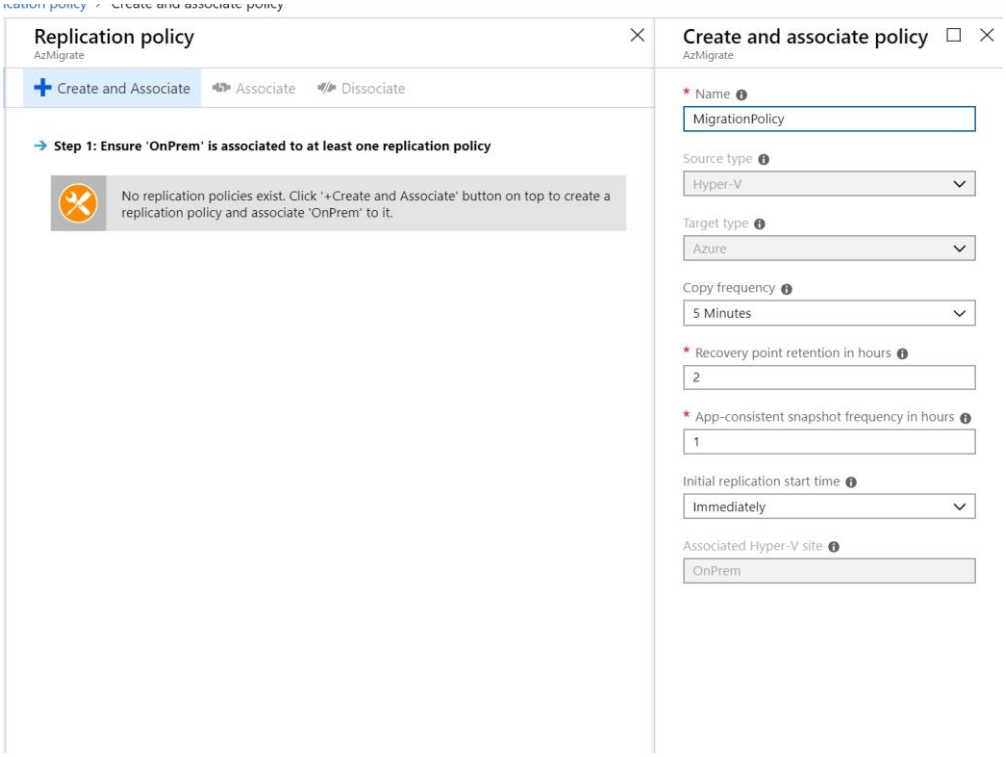
19. Run the downloaded ASR Provider
20. Select On on the Windows Update page and click Next and then proceed with the Installation
21. Wait till the installation completes and then click Register
22. Browse to your Vault Registration file and select it



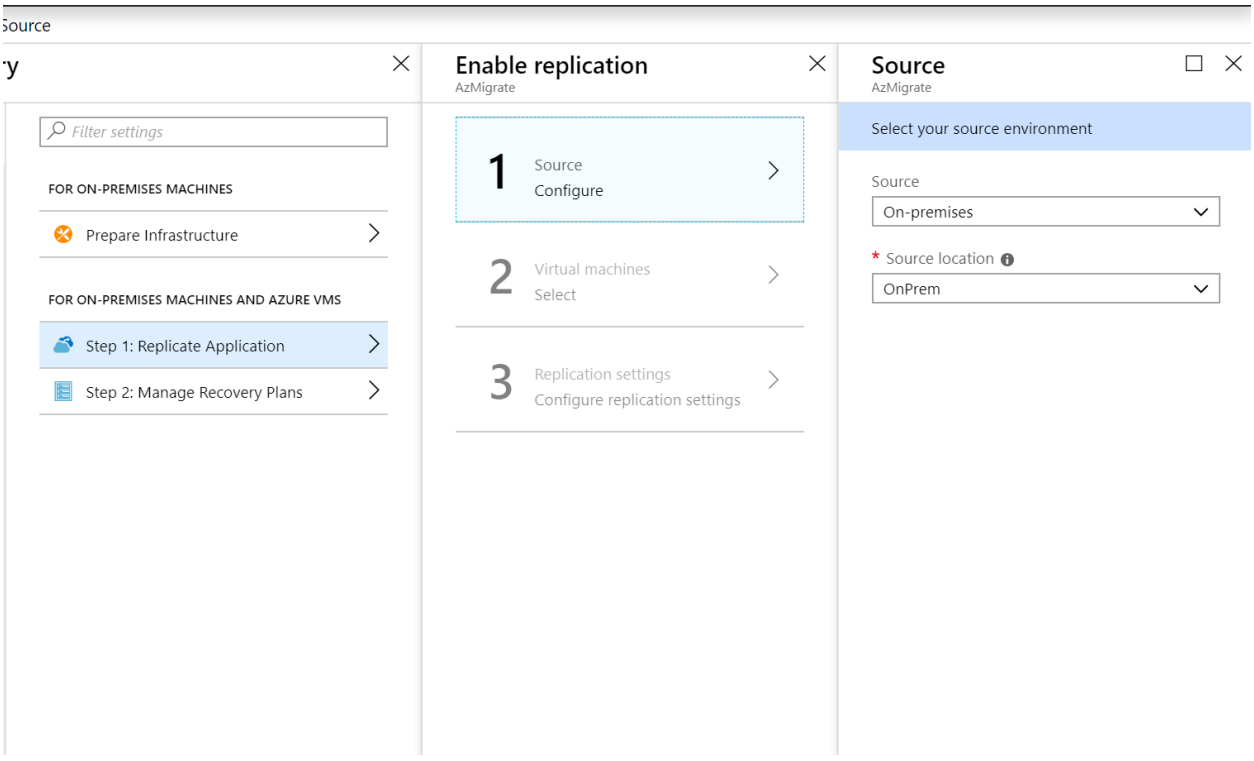
23. Proceed with the default options and complete the registration
24. Go back to the Azure Portal
25. Click on Deployment Planning and then Click Source to refresh the registration



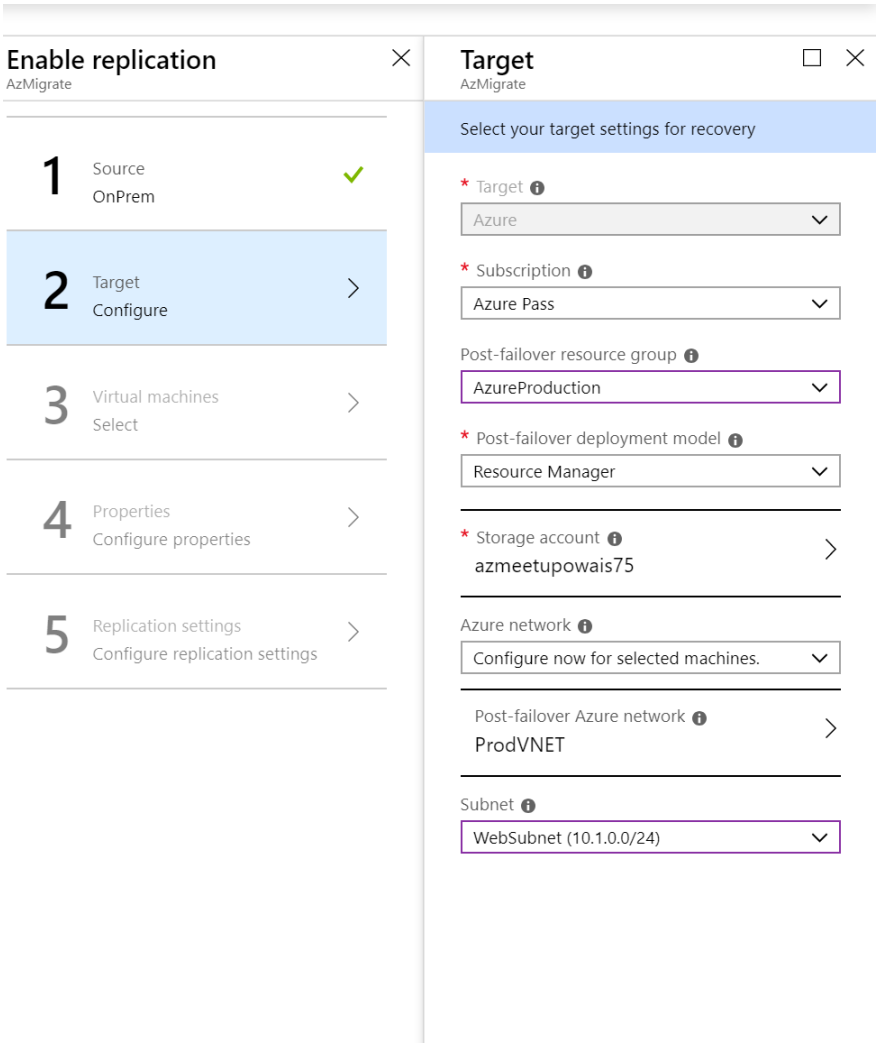
26. In the Target screen, click OK
27. In the Replication Settings, click Create and Associate. Name the Policy and click OK



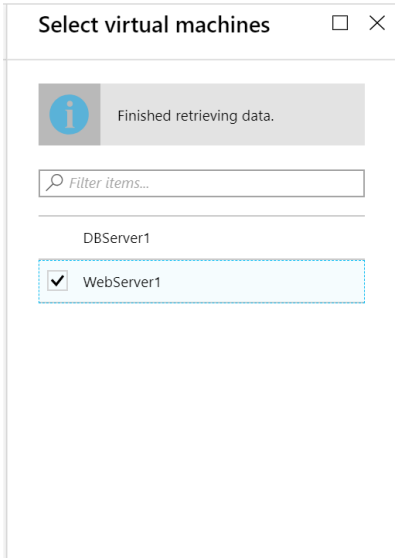
28. Complete the Prepare Infrastructure configuration
29. Click on Replicate Application



30. Click Ok
31. In the Target screen, use the following details and click Ok

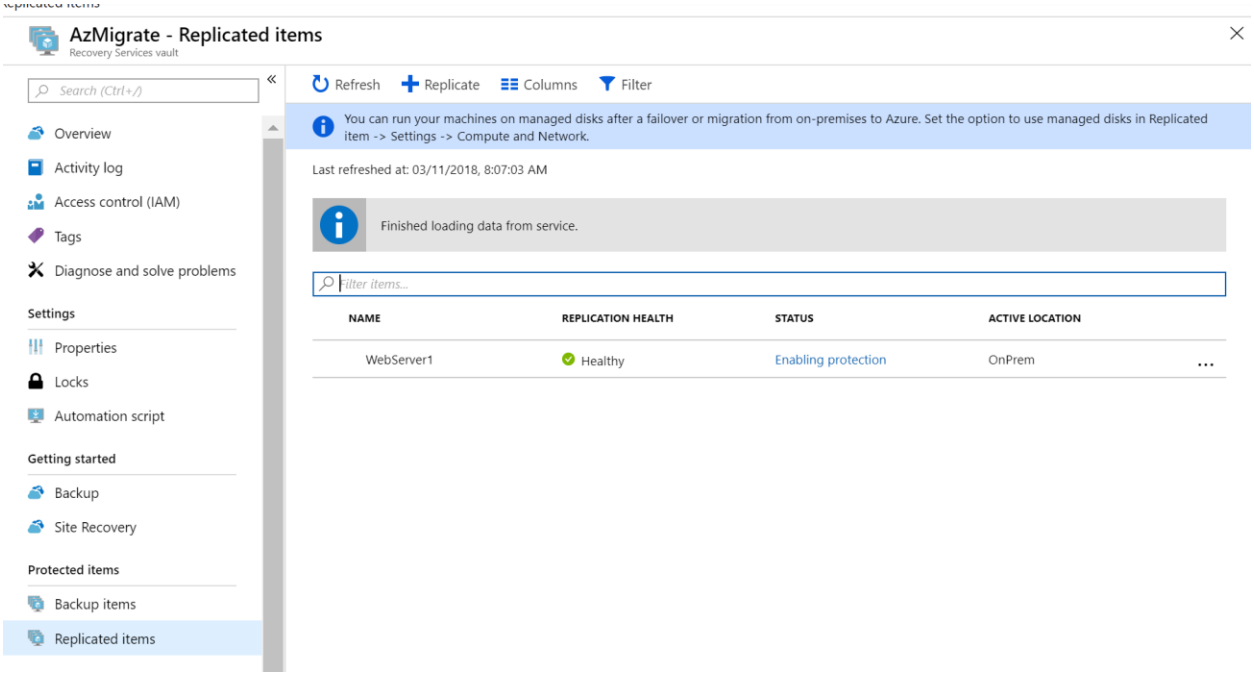


32. In the Virtual Machines screen, select only the Web Server and click Ok

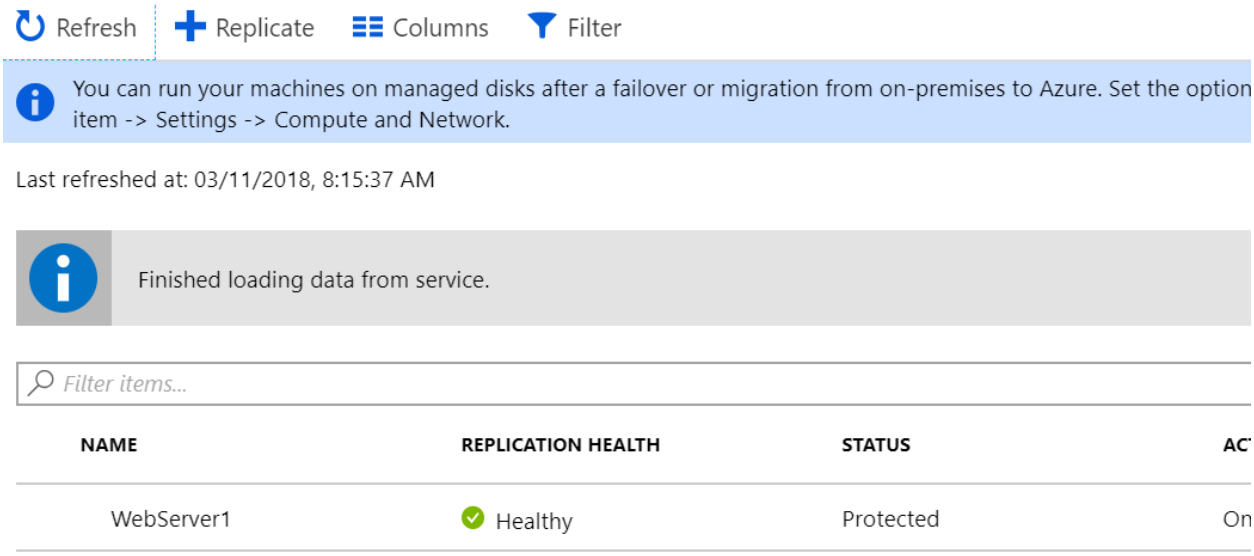


33. In the Configure Properties, select the OS Type as Windows and click OK

34. Click OK in the next screen and the select Enable Replication
35. Click on Replicated Items to check the status of Replication

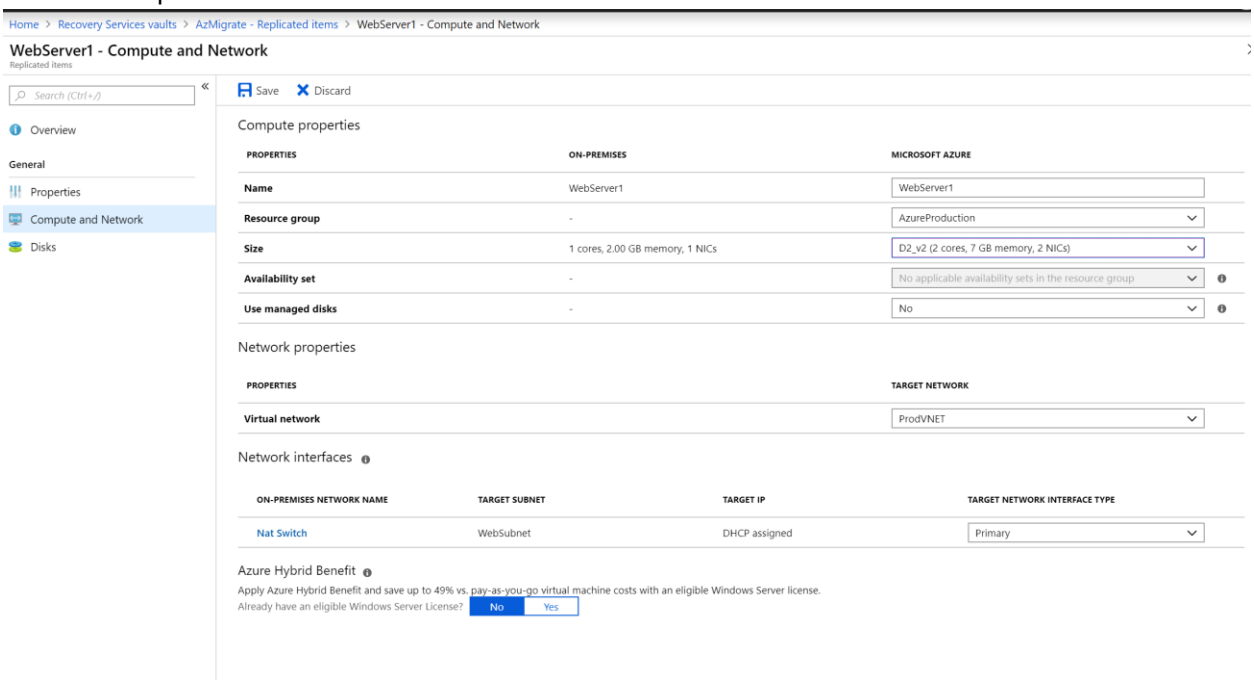


36. Once the replication completes, the status turns to Protected

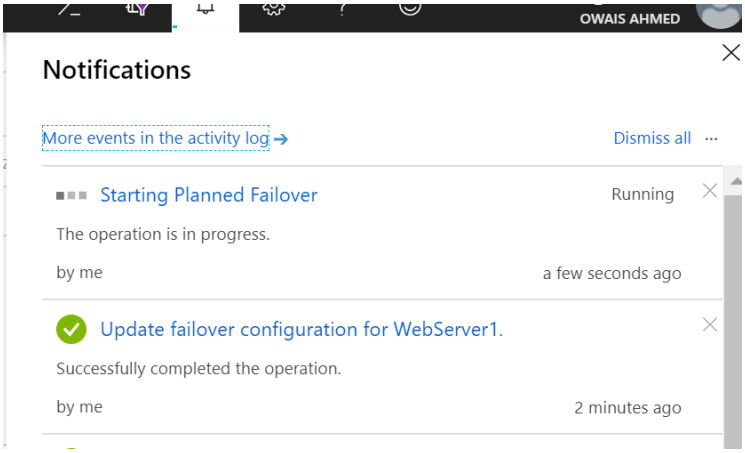


Failover to Azure

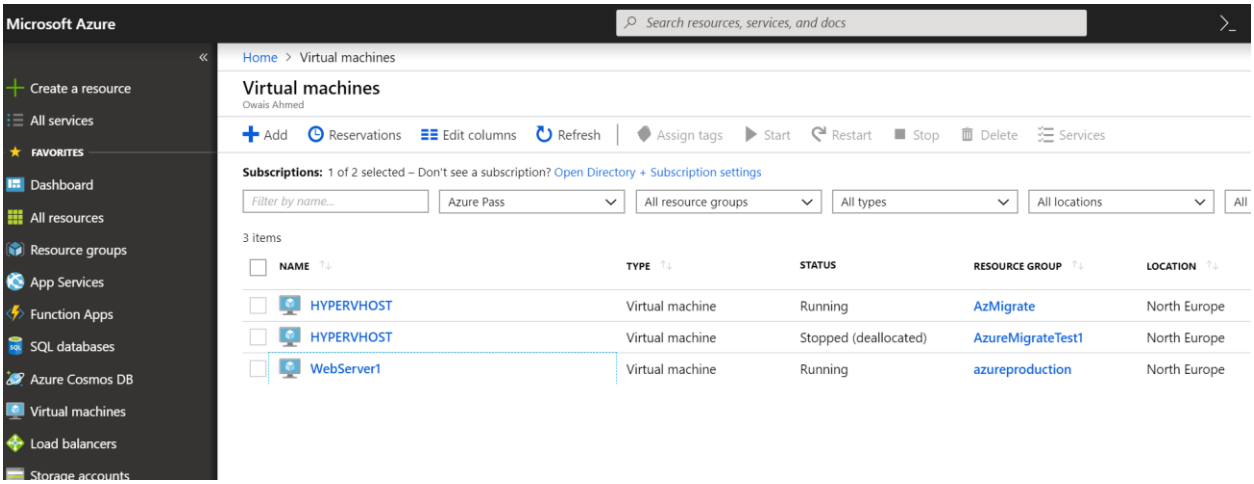
1. Click on the WebServer1 Protected item in the Vault
2. Click on Compute and Network and click Edit



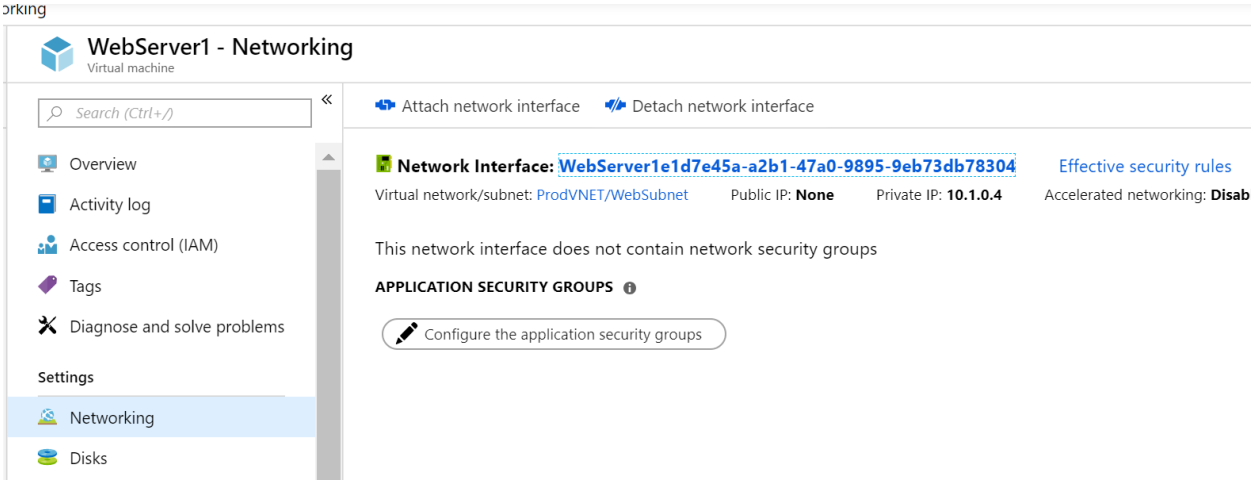
3. Change the VM size to D2_V2 and verify other properties and click Save
4. Go back to the Overview page.
5. Click on Planned Failover
6. Skip on any warnings and click OK
7. The Failover process should start
8. You can click on the Starting Planned Failover Notification and review the job



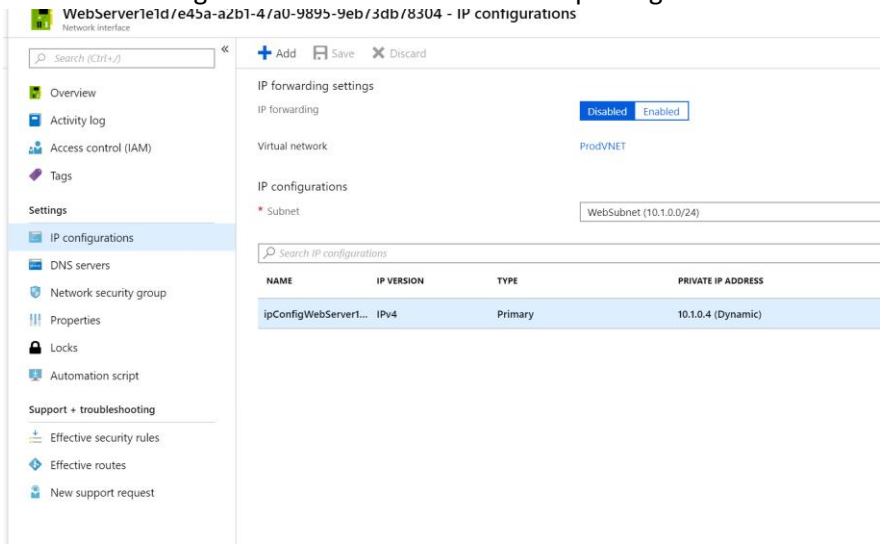
9. Once the failover is complete, you can verify if the VM is running by going to the Virtual Machines pane



10. Click on WebServer1.
11. To connect to the Server, we need to configure Public IP.
12. Click on Networking and click on the Network Interface

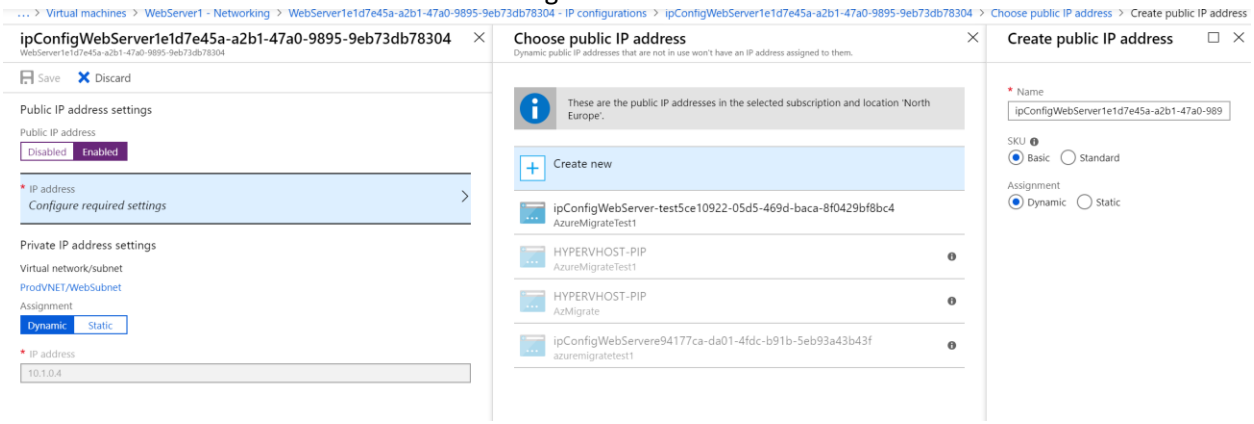


13. Click on IP Configurations and then click on the ipconfig

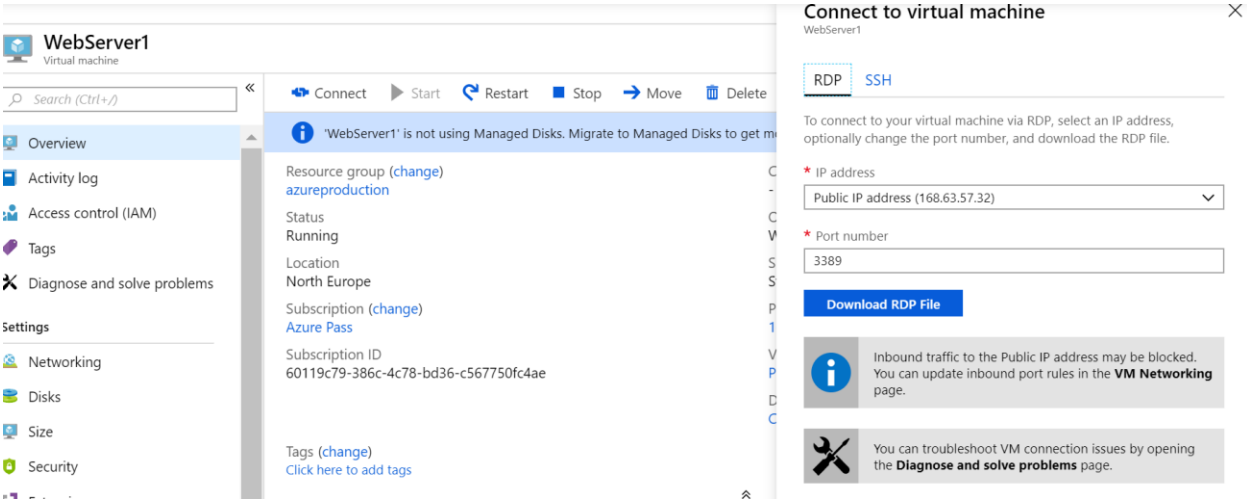


14. Change the Public IP Address status to Enabled

15. Click on Configure
16. Click Create New and chose the default settings and click OK



17. Click Save
18. Go back to the Overview Page of the WebServer1 VM
19. Click Connect



20. Download the RDP File and connect to the server using the same details
    a. Administrator
    b. P@ssw0rd

Changing Connection String

Once the DB has been migrated, we need to change the connection string of the application to point to the new SQL Server

1. On the Azure Web Server VM, open the Web Config file in the following location
    a. C:\intepub\wwwroot\website
2. Open the web.config file in notepad
3. Change the connection string to reflect the new SQL server