Created By: Samprada N

Azure DB Migration – Creating the VPN

STEP 2 – Configuring a Point-to-Site VPN

SUB-STEP 1: Create a Virtual Network

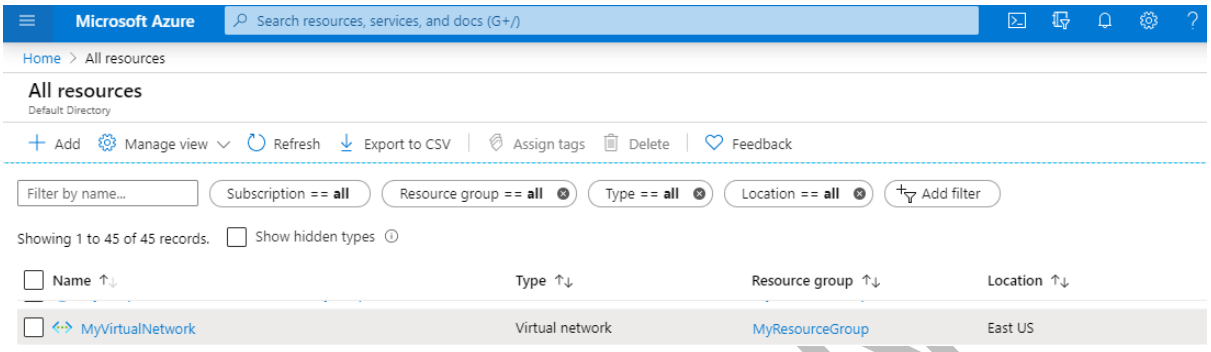
1. Login to your Azure Portal
2. In the search bar, type Virtual Networks
3. In **Create virtual network**, enter or select this information:

Setting	Value
Subscription	Select your subscription.
Resource group	Select **Create new**, enter *myResourceGroup*, then select **OK**.
Name	Enter *myVirtualNetwork*.
Location	Select **East US**.

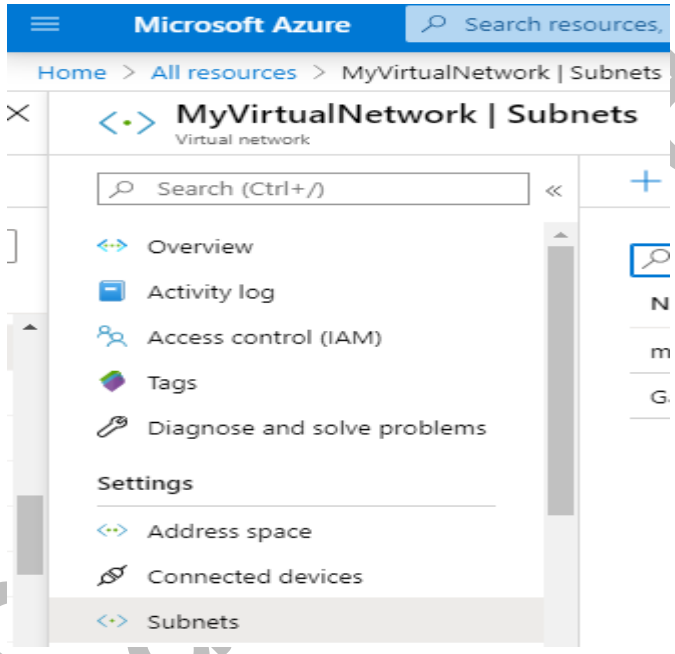
4. Select **Next: IP Addresses**, and for **IPv4 address space**, enter *10.1.0.0/16*.
5. Select **Add subnet**, then *default* for **Subnet name** and *10.1.0.0/24* for **Subnet address range**.
6. Select **Add**, then select **Review + create**. Leave the rest as default and select **Create**.
7. In **Create virtual network**, select **Create**.
8. This completes the creation of Virtual Private Network

SUB-STEP 2: CREATE A VIRTUAL GATEWAY & GATEWAY SUBNET

1. Login to Azure Potal
2. In the search bar, type Virtual Private Networks. Choose your private network (viz. MyVirtualNetwork)



3. On choosing your virtual private network -> Choose Subnets in the pane



4. Click on Gateway Subnet, to create a new Gateway Subnet. Add the values as shown below.

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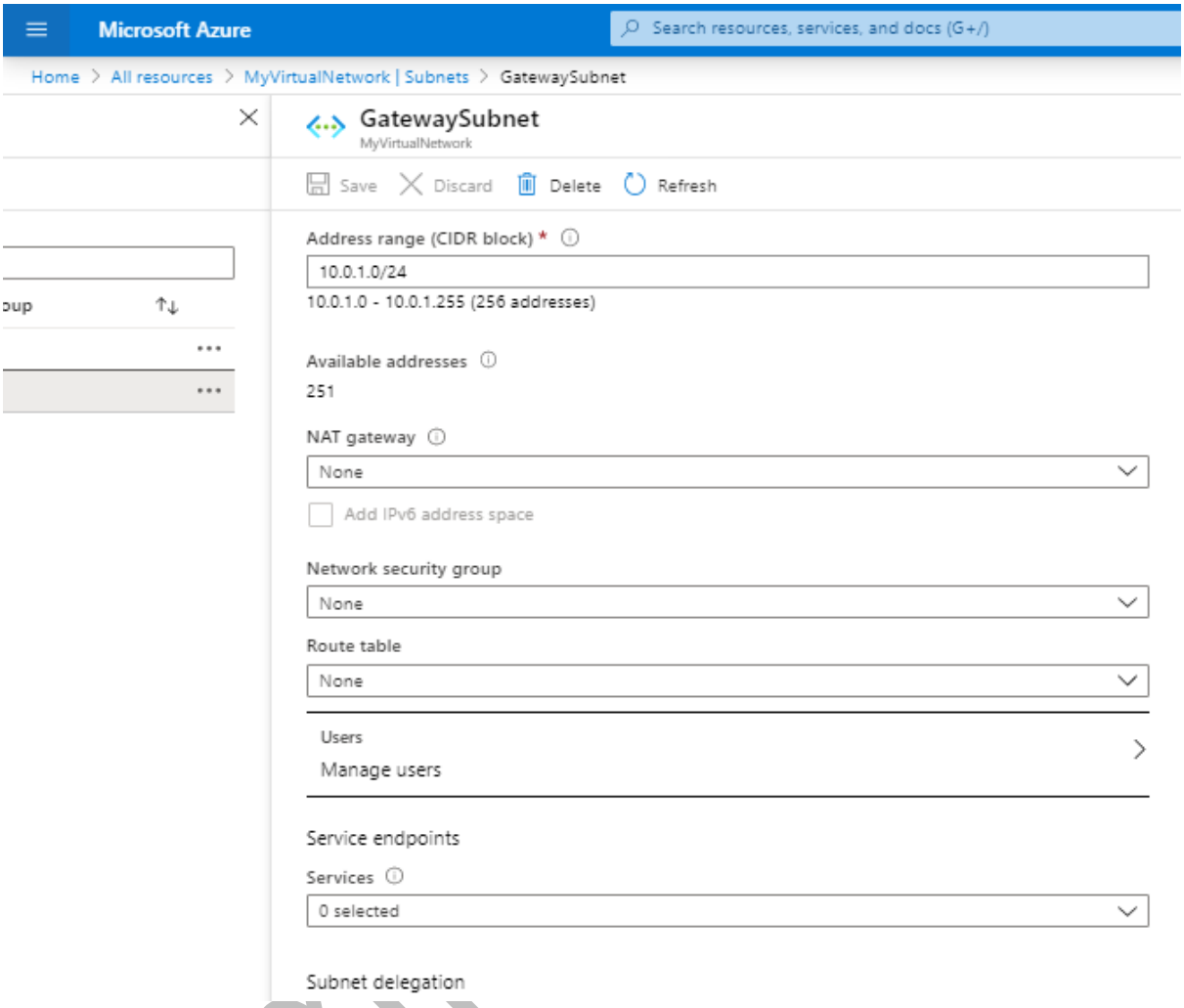
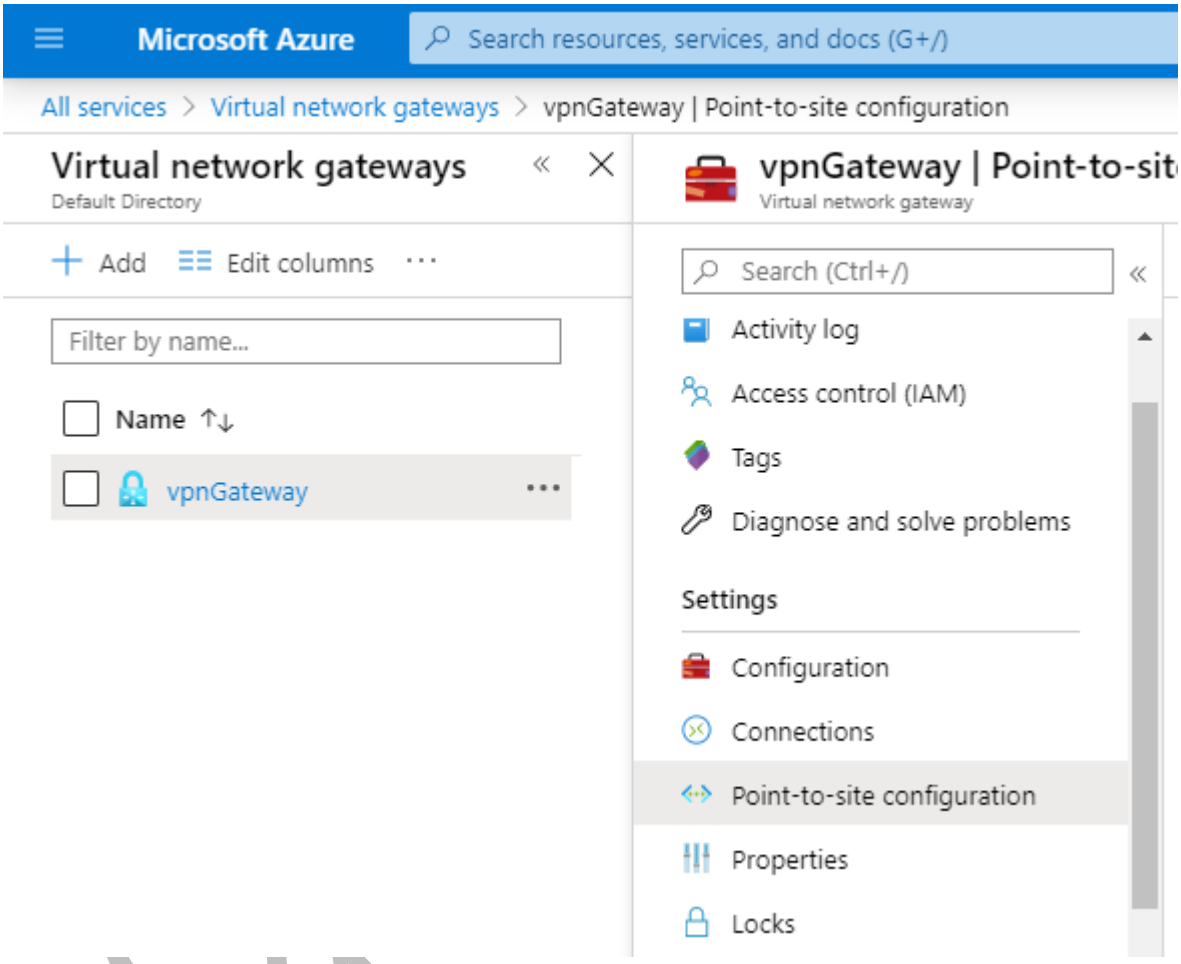


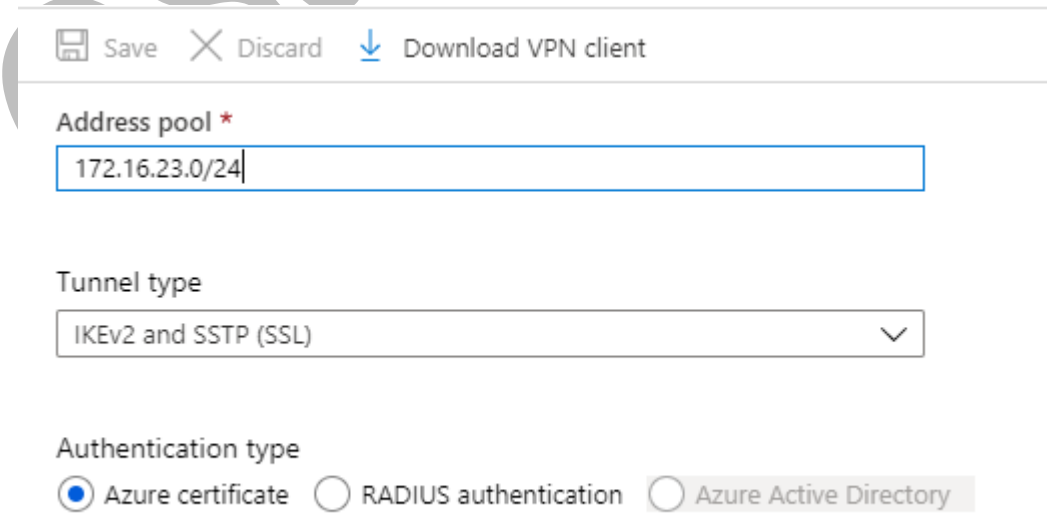
5. Click OK
6. Next, we need to **create the Virtual Gateway**
7. In the Azure portal, in the search bar, type “Virtual Network Gateways”. Choose the Virtual Network Gateways in the search options.
8. Choose ***Add*** or ***Create virtual Network Gateway,*** with the following options
    a. Name vpnGateway
    b. Gateway Type VPN
    c. VPN type Route Based
    d. SKU VpnGw
    e. Enable Active-Active mode False
    f. Virtual Network myVirtualNetwork
    g. PUBLIC IP Address Choose the option ***Create New,*** with Name ***dbPublicIP***
    h. Configure Public IP address
        i. SKU Basic
        ii. Assignment Dynamic
        iii. Configure BGP ASN False
    i. Location EAST US
9. Click ***CREATE***
10. This completes the creation of the Virtual Network Gateway

SUB-STEP 3: CREATING A POINT-TO-SITE CONNECTION

1. In continuation with the above step. You have selected the created virtual network gateway (viz. vpnGateway) in the Azure Portal.
2. In the panel, choose **Point-to-site Configuration**

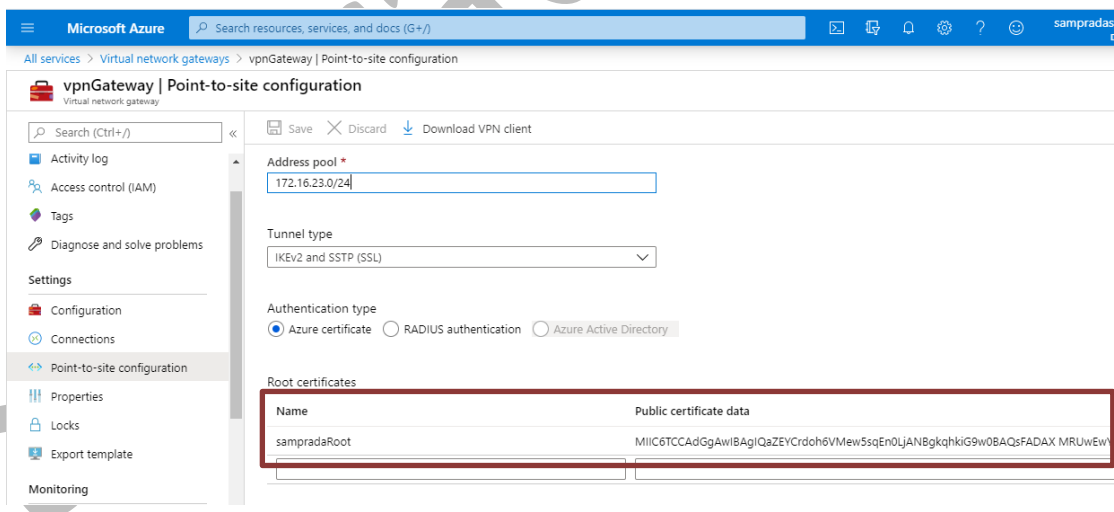


3. Add the following in the configuration.



4. Since the Authentication Type chosen here is Azure certificate, we need to create a certificate. We will use powershell scripts for this pupose.

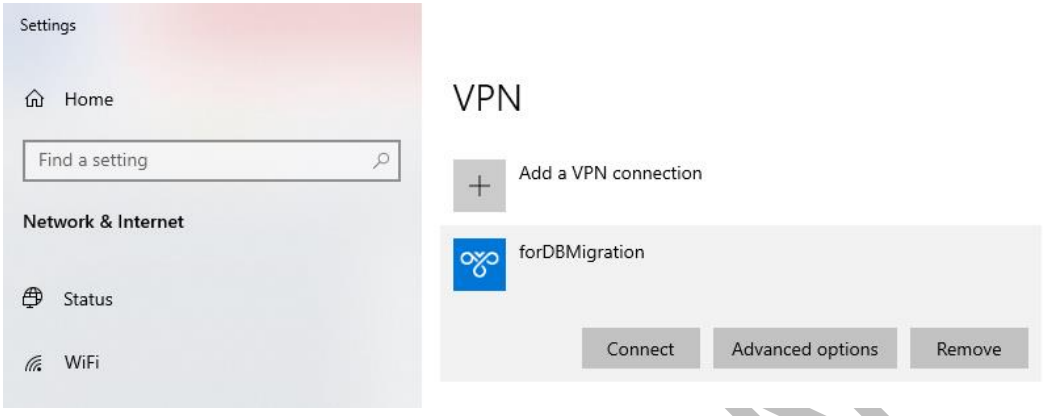
5. certificateCreationScript.txt
6. The above file contains the powershell scripts for creating a root and client certificate.
7. The created **Root Certificate** needs to be **pasted in the Azure portal. To do that, please use the steps below**
    a. Open certificates (type certificates in windows start menu)
    b. This will open up the certificates created on your machine
    c. You will find your created certificate in Personal folder here
    d. Right click on the root certificate => All Tasks => Export
        i. Here choose "No, do not export the private key".
        ii. Click Next. Choose Base64 encoded X.509. (Can choose any as long as compatibility is ensured)
        iii. Click Next. Choose a folder to save the certificate
        iv. Navigate to the folder, and open the certificate in notepad
        v. This string should be pasted in azure portal's Root Certificate text field, as shown below



        vi. Click Save
    e. **Only after the Save operation** is completed (takes some time, check the notifications icon), you should click **on Download VPN Client** button. This will download a zip file. Unzip the file into a folder. It will contain 3 folders. Choose **WindowsAmd64**

    f. Run the VPNClient Setup

g. Your VPN connection to your Azure Portal is now created. You can verify it by navigating to **Control Panel VPN settings**



h. The name of the VPN will match your virtual Network name. In your case, it will be myVirtualNetwork

i. Click connect. The VPN Client will open and connect to your Azure Virtual Network .