Point to Site Demo

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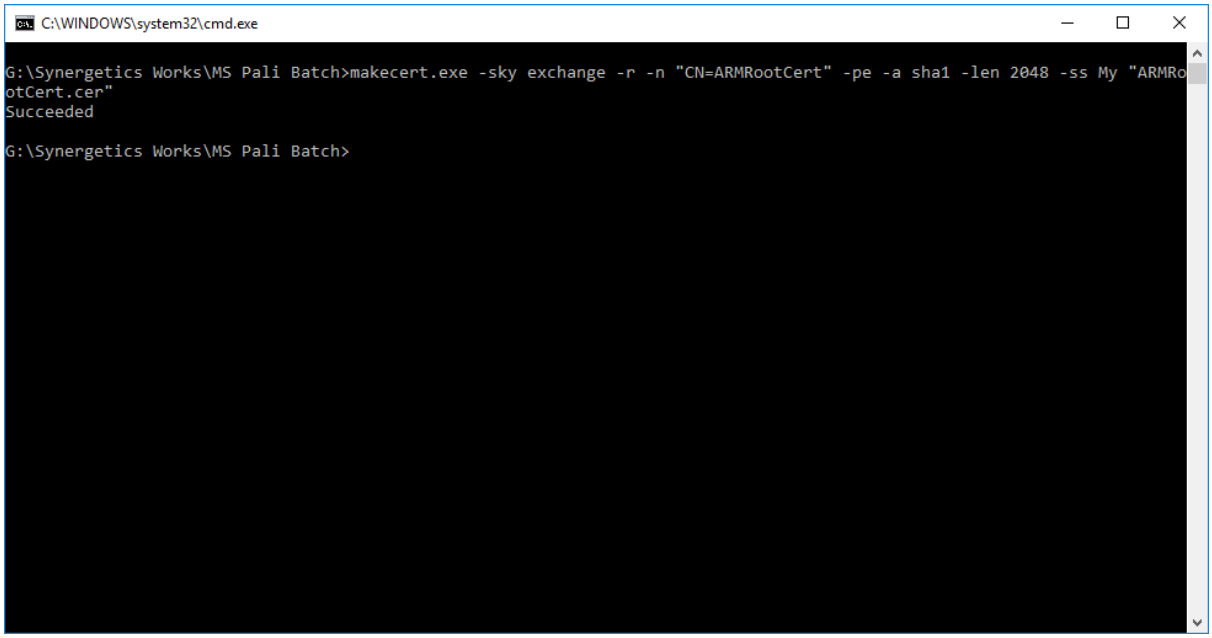
1) Open local machine and navigate to the folder where makecert.exe is located
2) Execute the following command in command window to create a root certificate

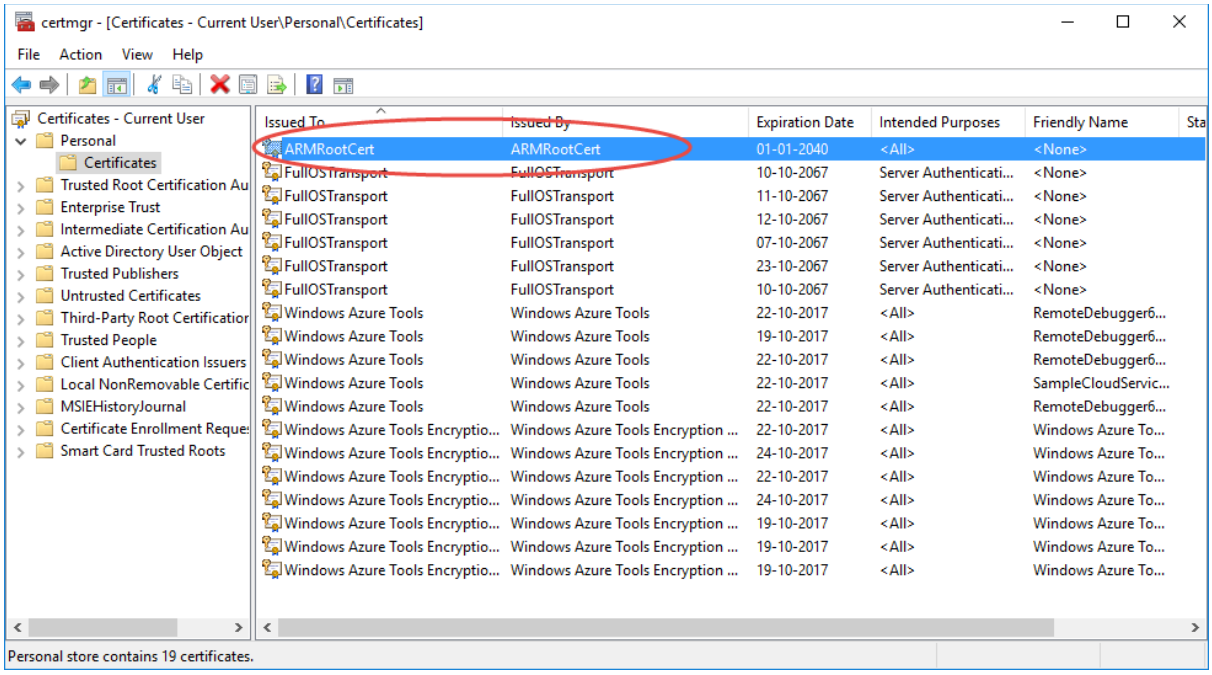
   makecert.exe -sky exchange -r -n "CN=ARMRootCert" -pe -a sha1 -len 2048 -ss My "ARMRootCert.cer"



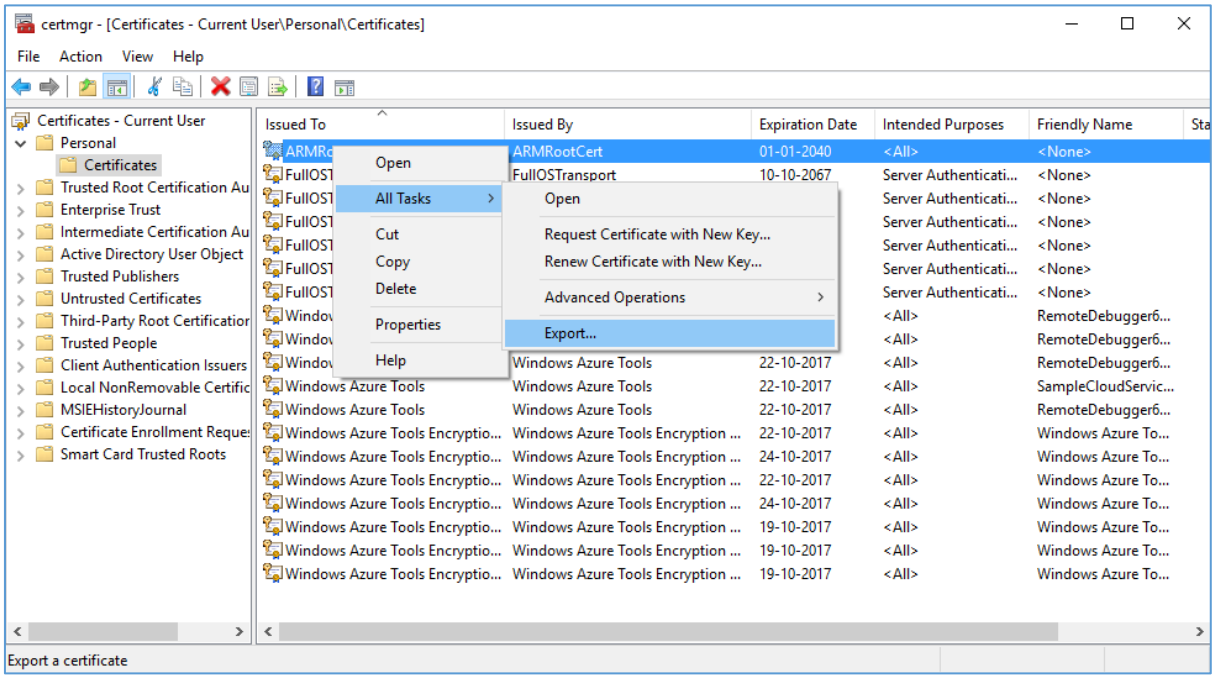
3) Execute the following command to open certificate manager

   Certmgr

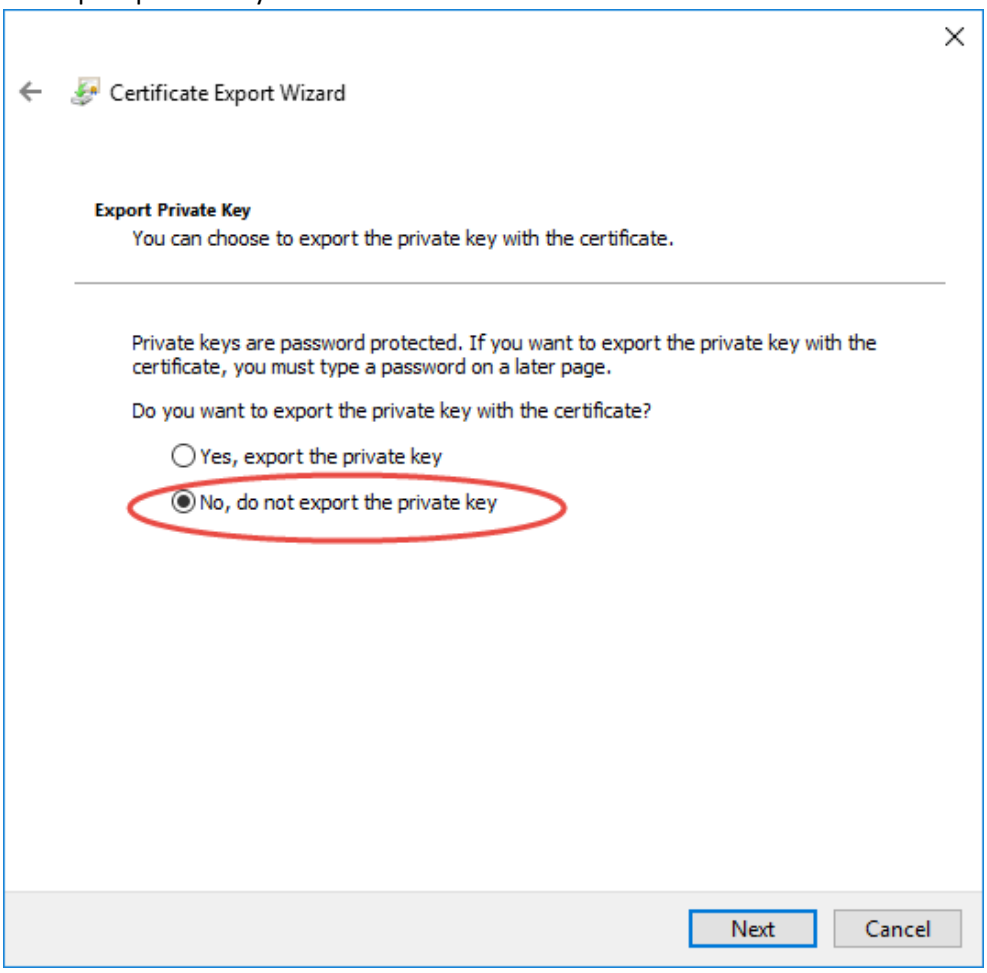
4) Certificate manager window will be opened, Navigate to Personal>Certificates folder. You can see all already installed certificates there



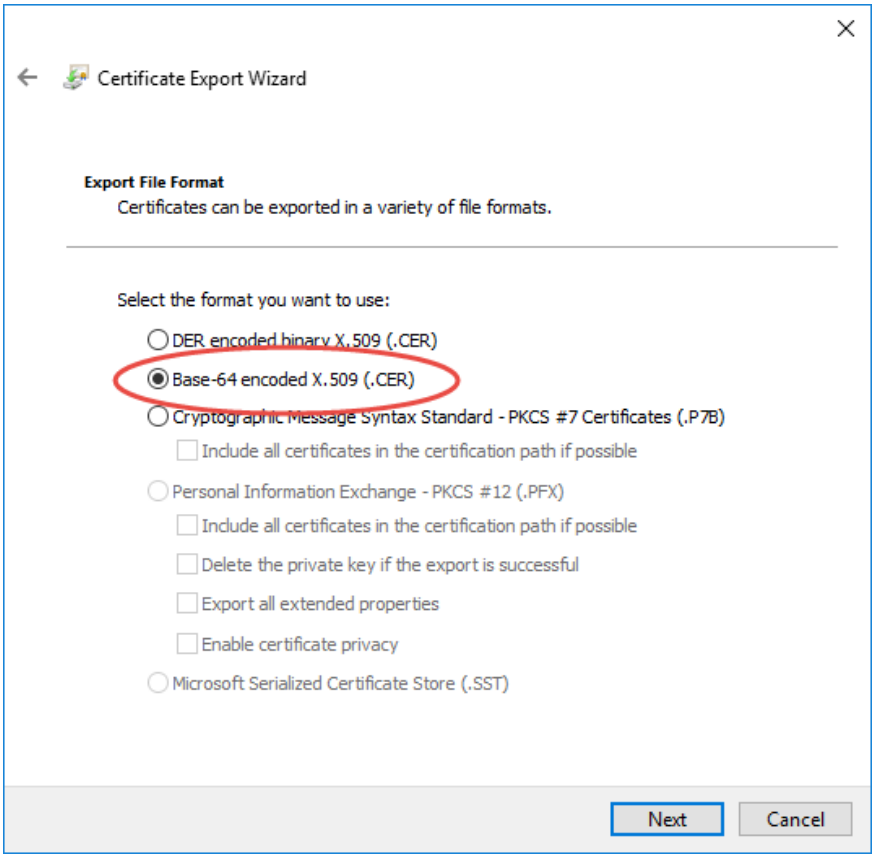
5) You need to export the key for the Azure portal. To do that right click on the certificate which you have created and select '**All Tasks > Export'** option



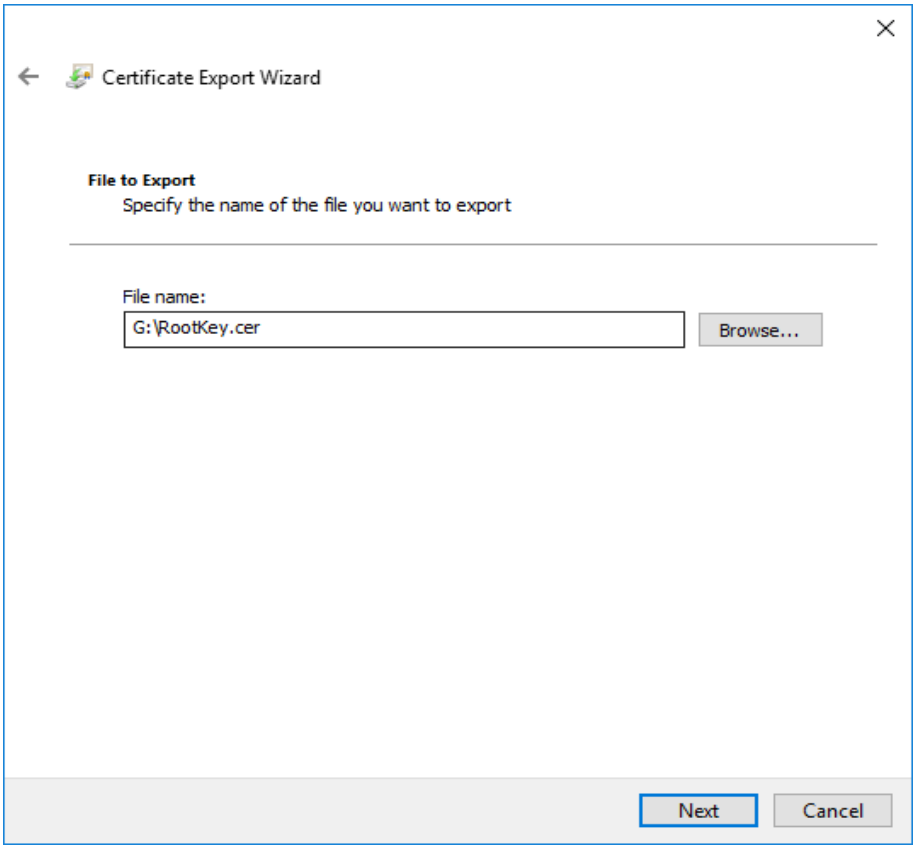
6) A certificate export window will be opened. Click Next from the welcome window. Select 'Do not export private key' from the window. Click Next



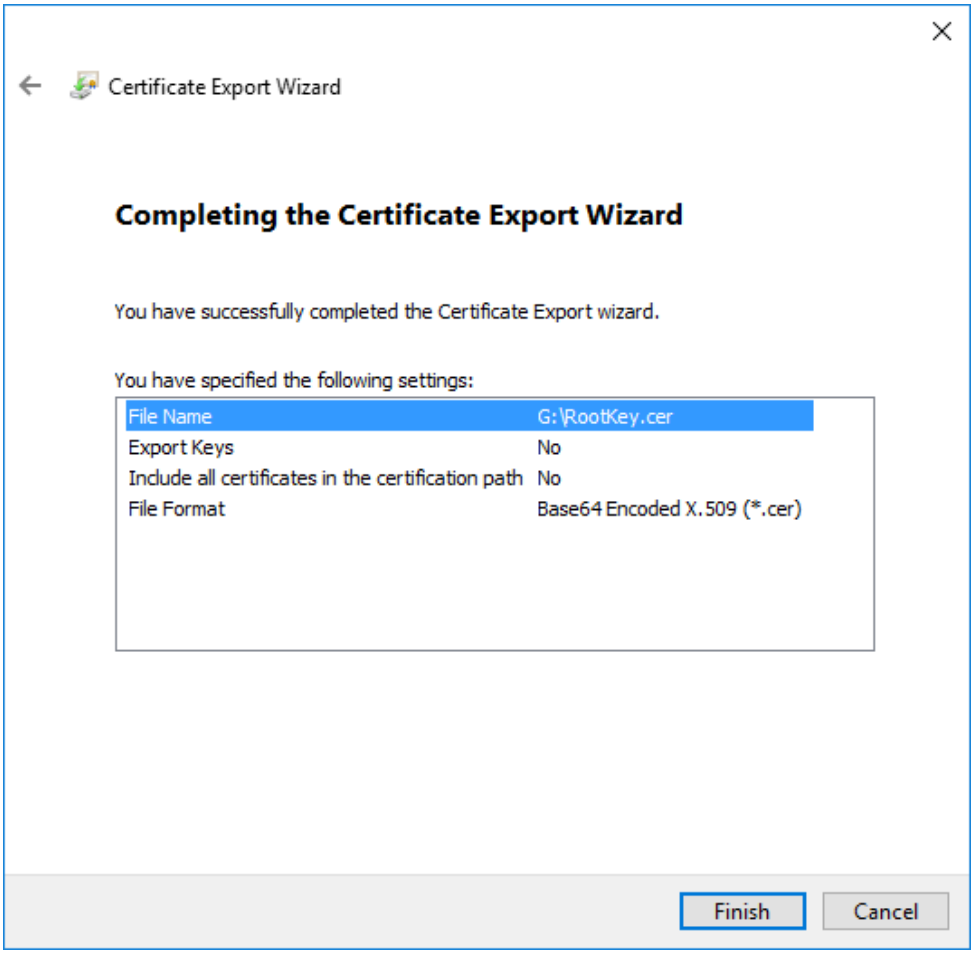
7) Select Base 64-encoded X.509 (.CER) from the list of export file formats. Click Next.



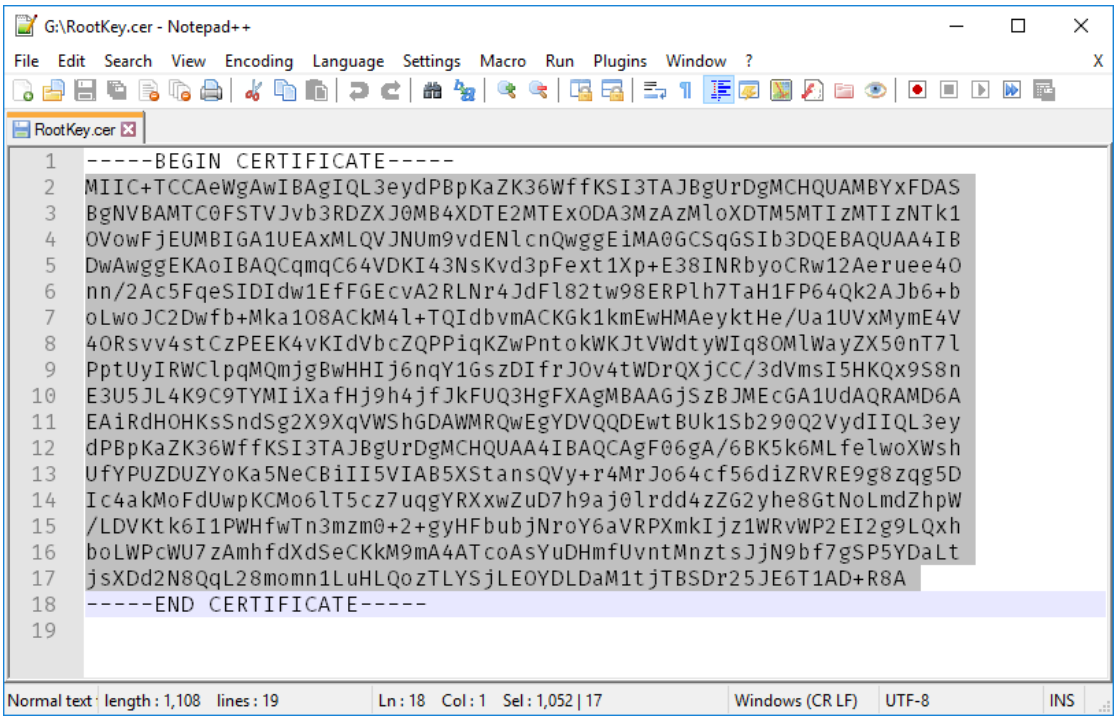
8) Select the location and name for the file to save. Click Next



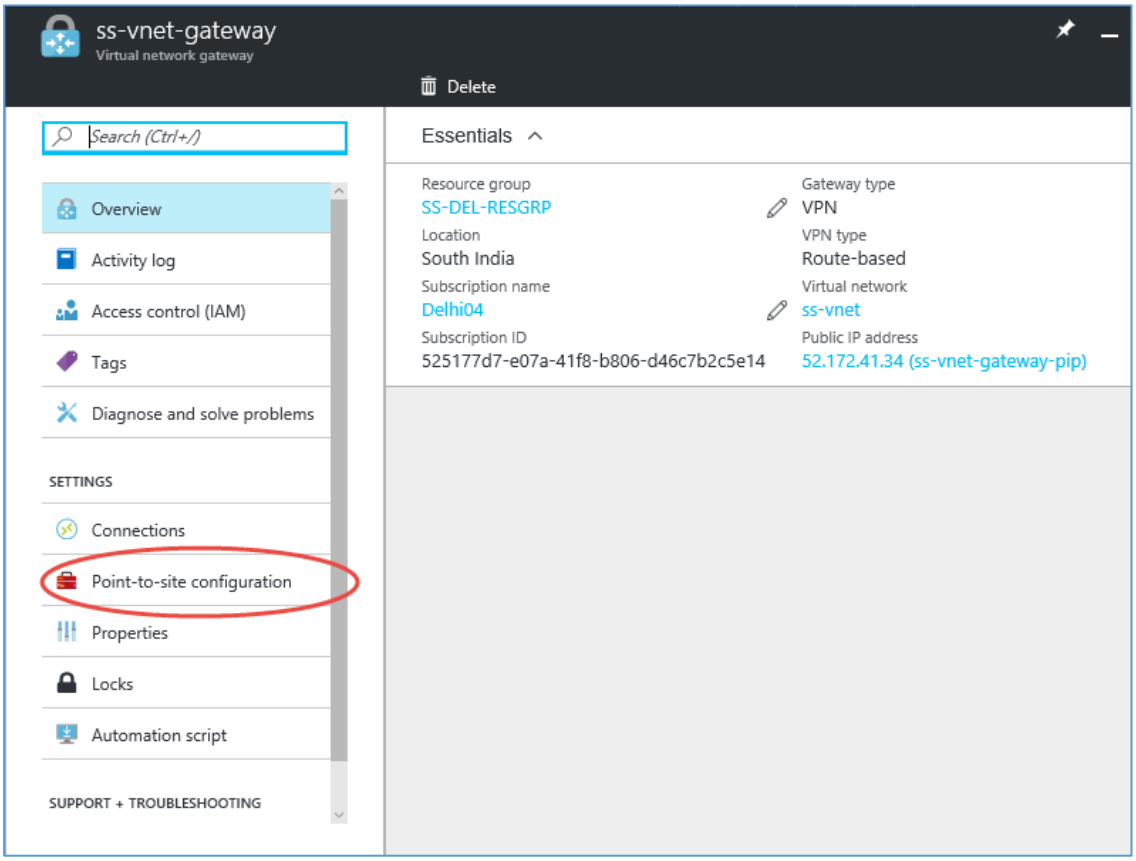
9) Click Finish in the Final Wizard.



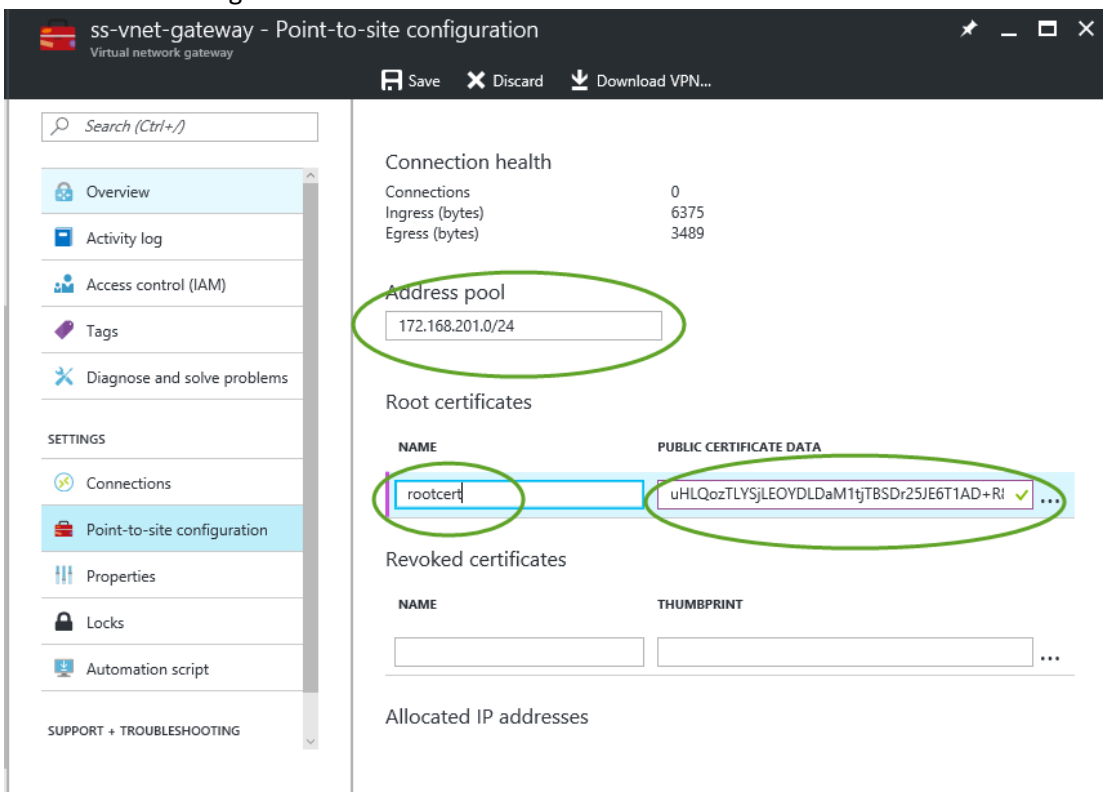
10) Open the Keyfile which you have saved in note pad. You can see the certificate Key similar to the below one. Select and copy the key which come in between ---BEGIN CERTIFICATE---- and ---END CERTIFCATE-----



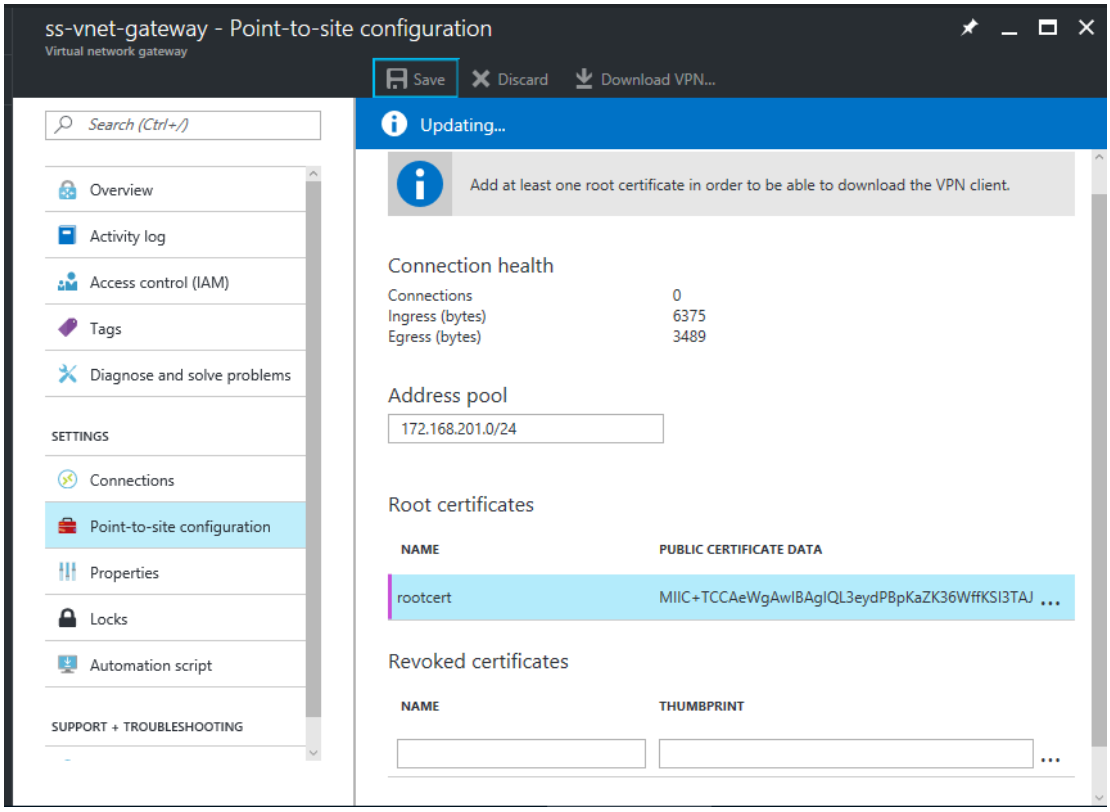
11) Open Azure Portal and navigate to the Virtual network gateway properties. And select Point-to-Site configuration



12) Specify the address pool value, and paste the copied key into the 'PUBLIC CERTIFICATE DATA' section and give a name for the certificate data.



13) Click on the save button to save the changes. It takes some time to update the changes

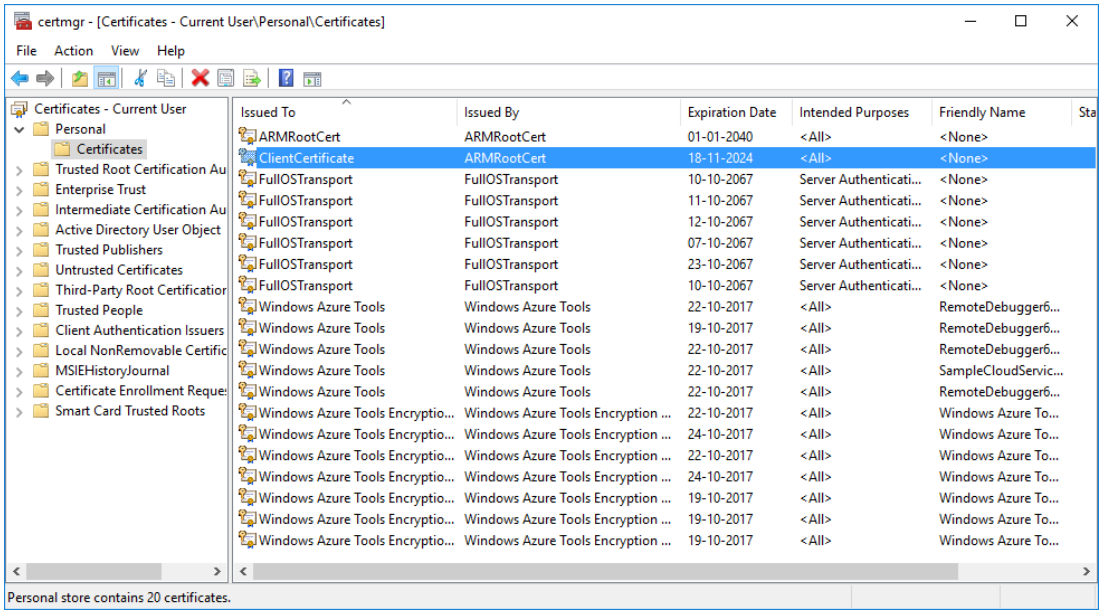


14) Now you have installed the certificate on Azure. Next you need to go and create client certificate. Open the command window and execute the following command to create a client certificate.

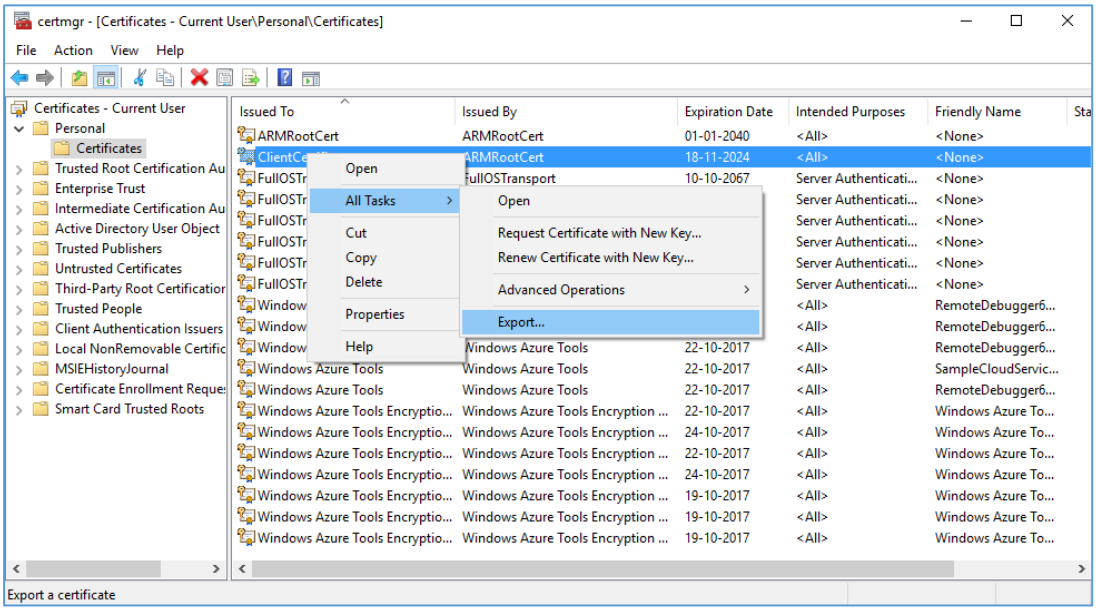
```
makecert.exe -n "CN=ClientCertificate" -pe -sky exchange -m 96 -ss My -in "ARMRootCert" -is my -a sha1
```

[Note: Name of the certificate can be anything it should be validating against the server certificate, So you need to specify the same name of the server certificate , eg: here it is **ARMRootCert**]

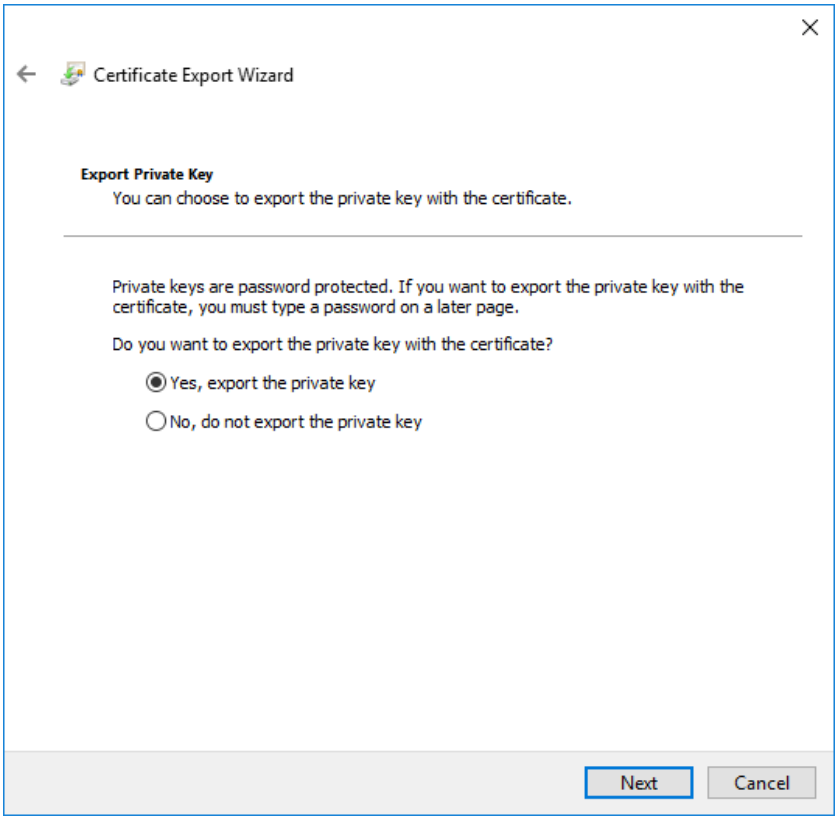
15) It will install a Client certificate in the computer. Open certification manager using **certmgr** command. Navigate to **Personal > Certificates**.



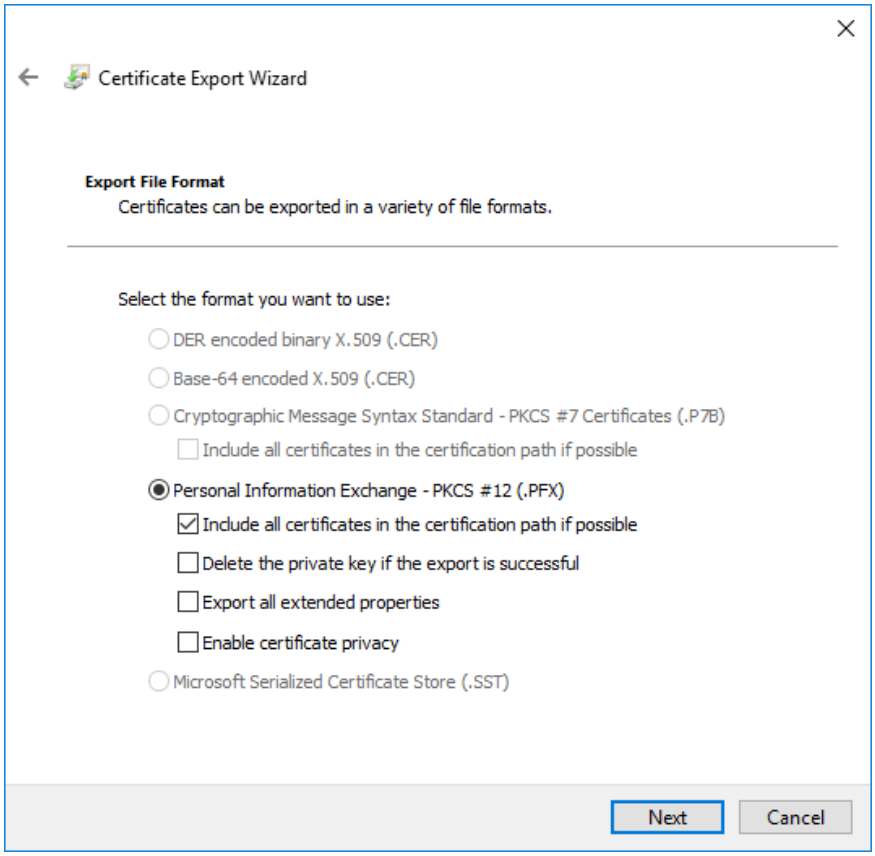
16) Now you can go and create the PFX file for the installed client certificate. To do so right click and select **All Tasks > Export** option.



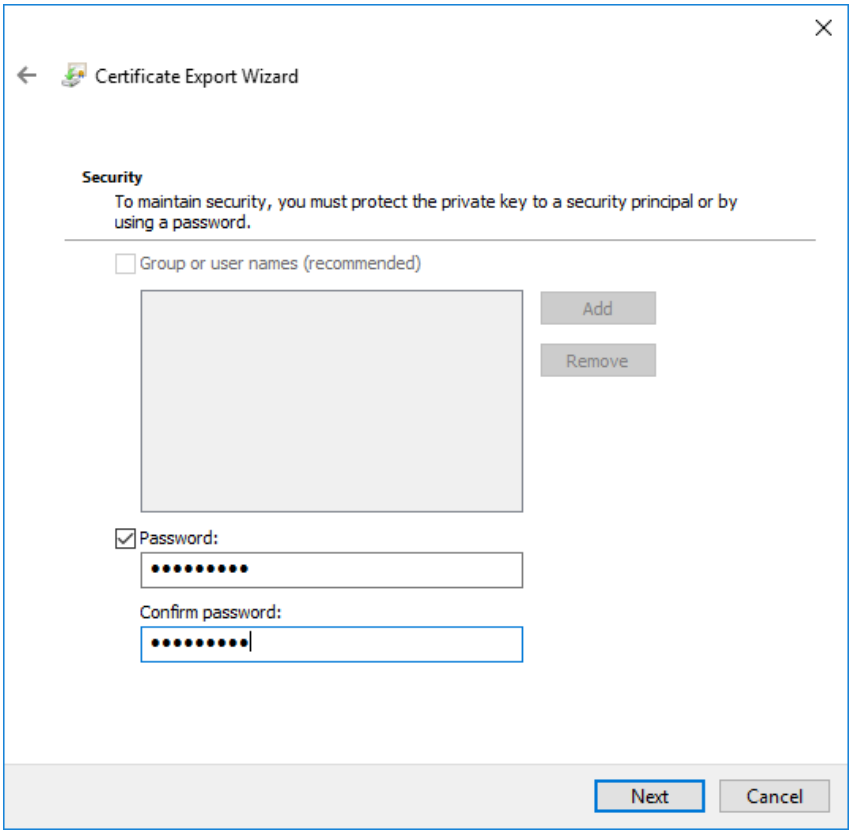
17) In the certificate export wizard click Next in welcome screen, and select 'Export private key' from the wizard, Click Next



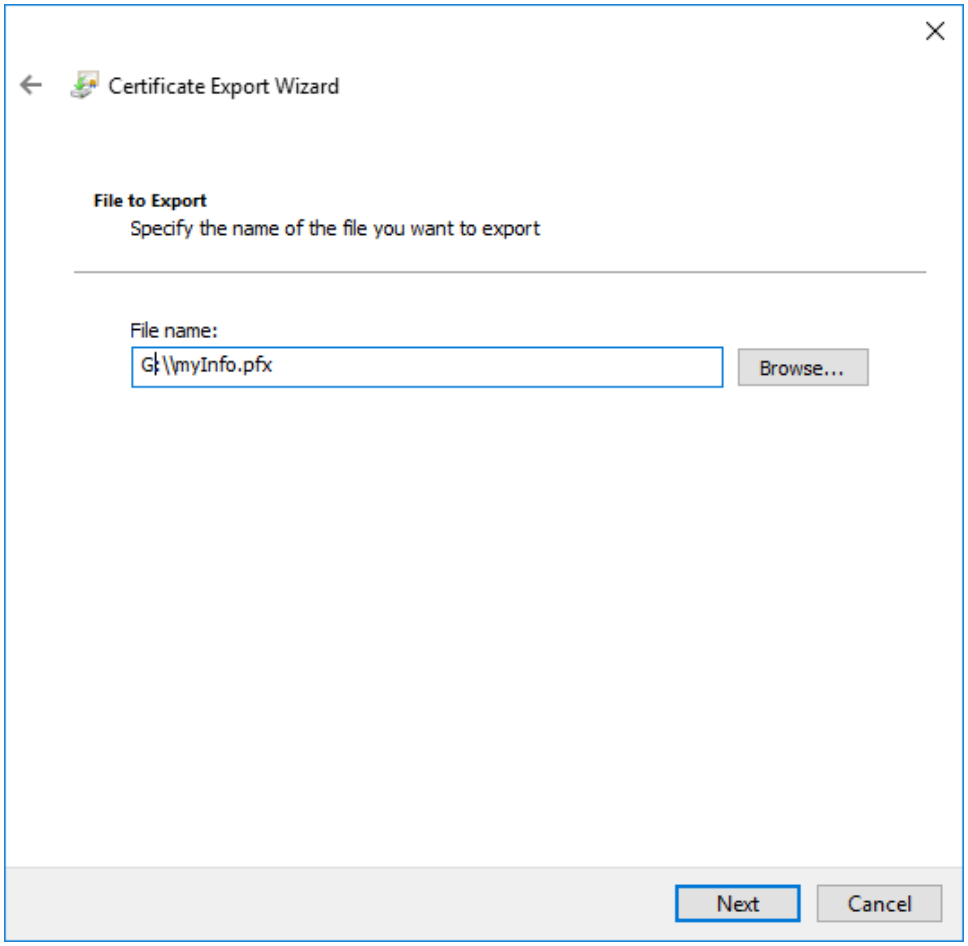
18) Select the Export file format as PFX.



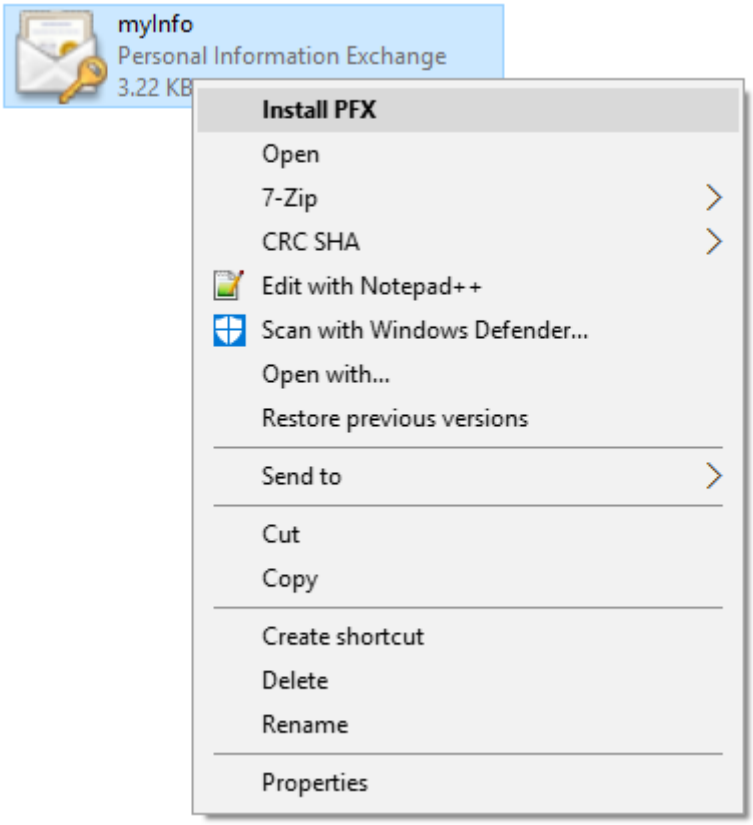
19) Specify a security password for the PFX file. Click Next



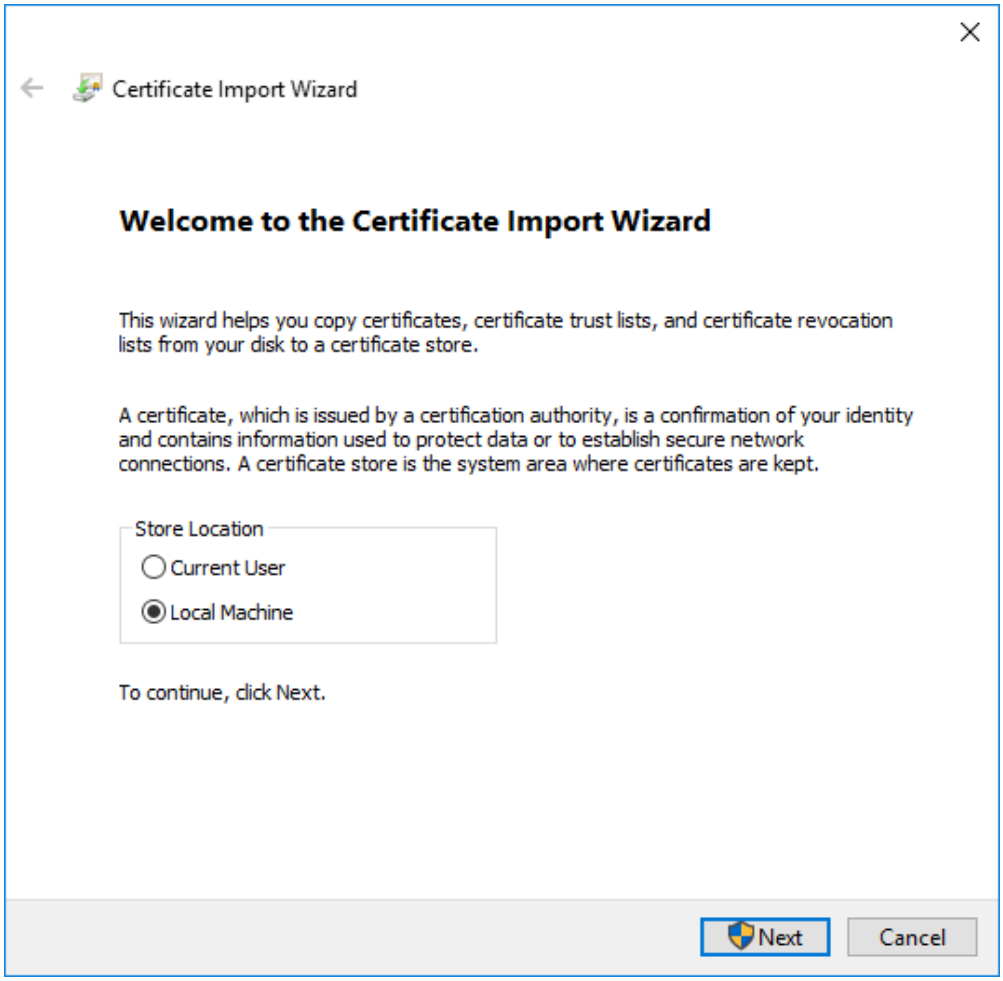
20) Choose a location and name for the file to save. Click Next.



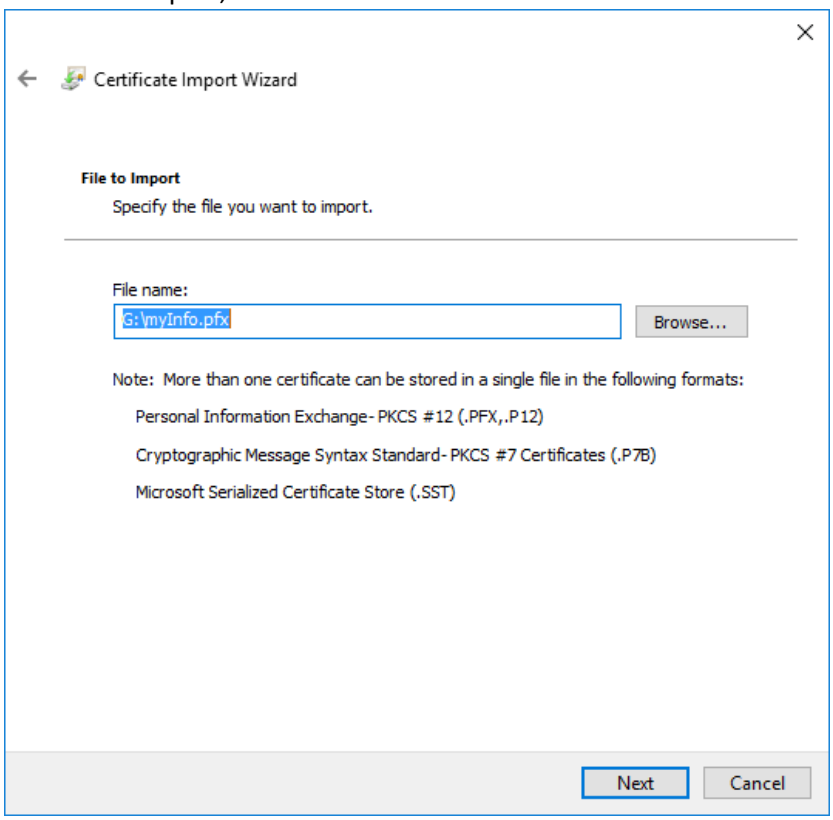
21) Click Finish. It creates a PFX file in the selected location.
22) Navigate to the location where you have created the PFX file, select and right click the file, choose **Install Pfx** option.



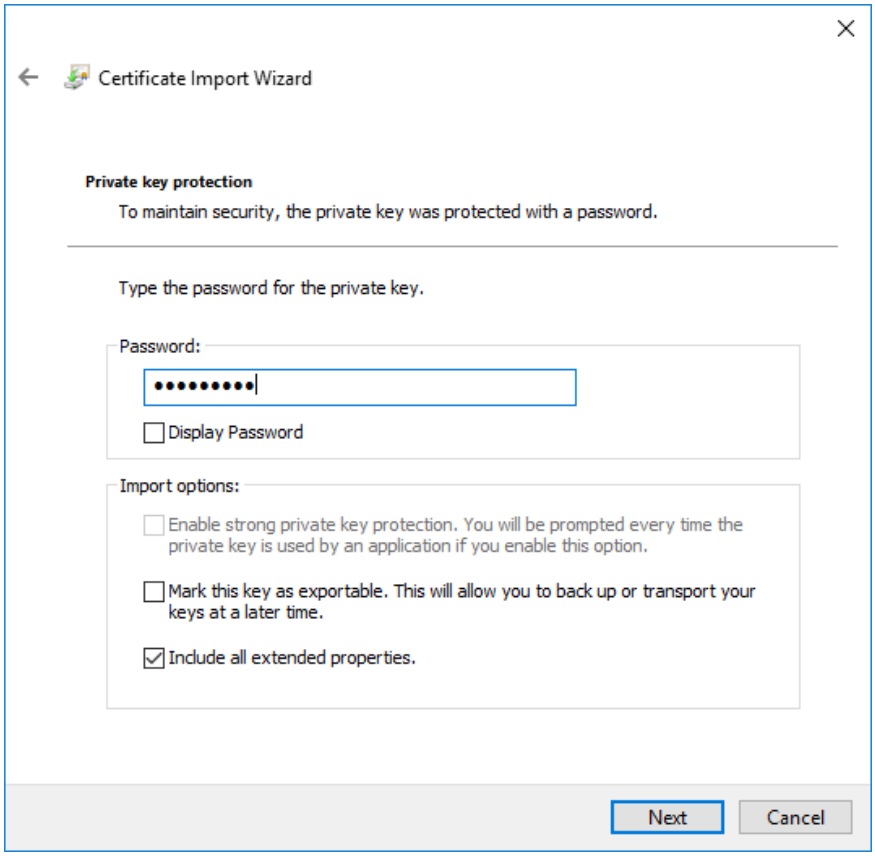
23) You will get an installation dialog box, Select **Local machine** to install.



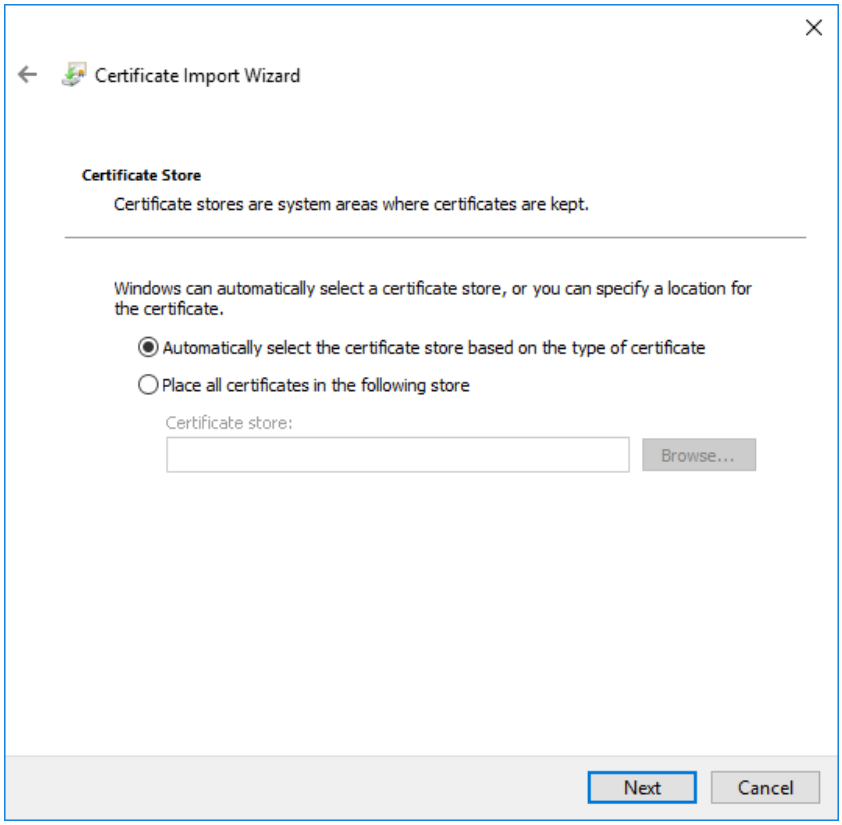
24) Confirm the PFX file to import, Click Next



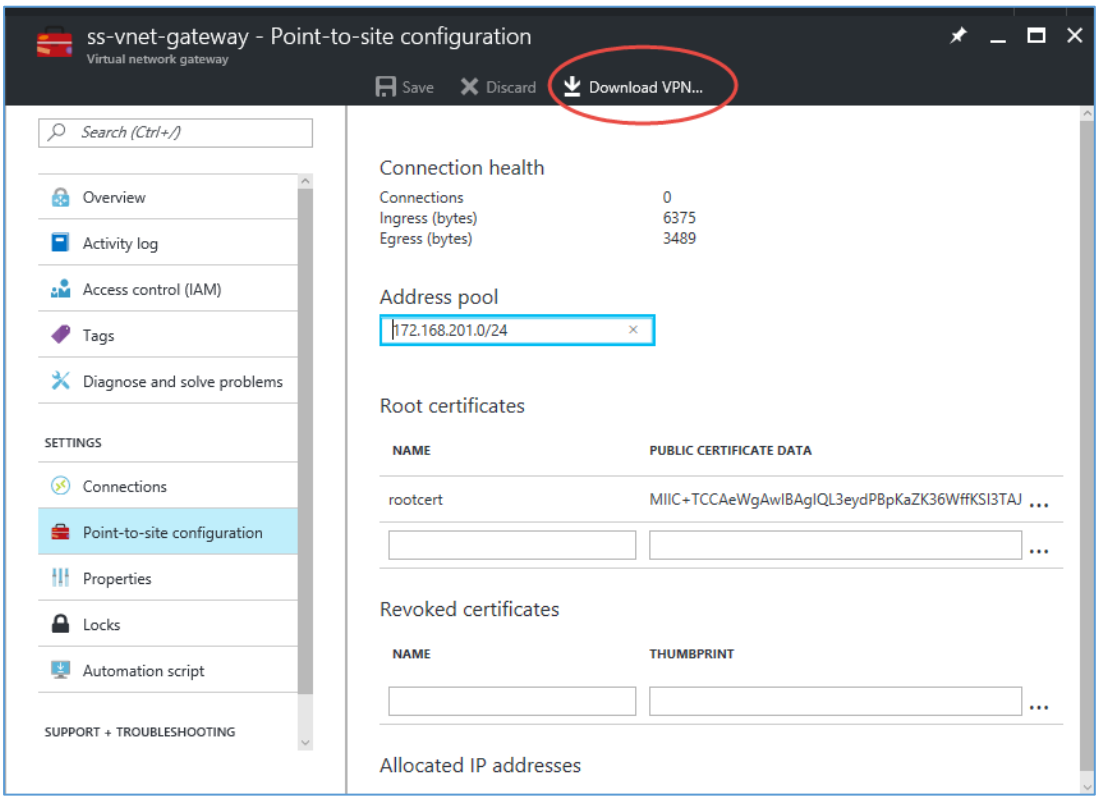
25) Enter the password which you have specified while exporting file, Click Next.



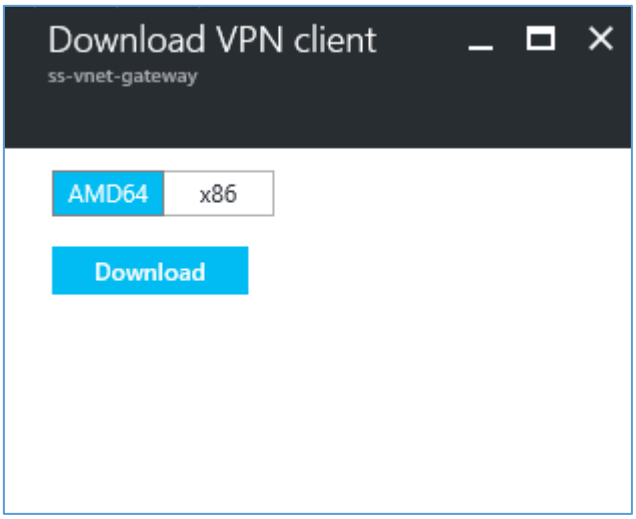
26) Select the first option from the Certificate Store wizard. It will automatically select the certificate store.



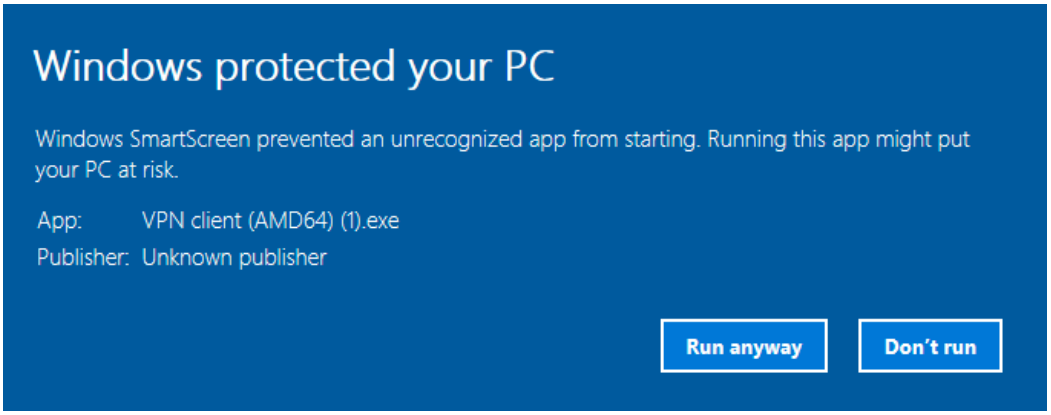
27) Click finish to Complete the steps.
28) Once you complete the installation, you can go back to the Azure portal and navigate to the Virtual Gateway ***settings*** blade and select the ***Point-to-Site configuration***. Click on the ***Download VPN Client*** from the top.



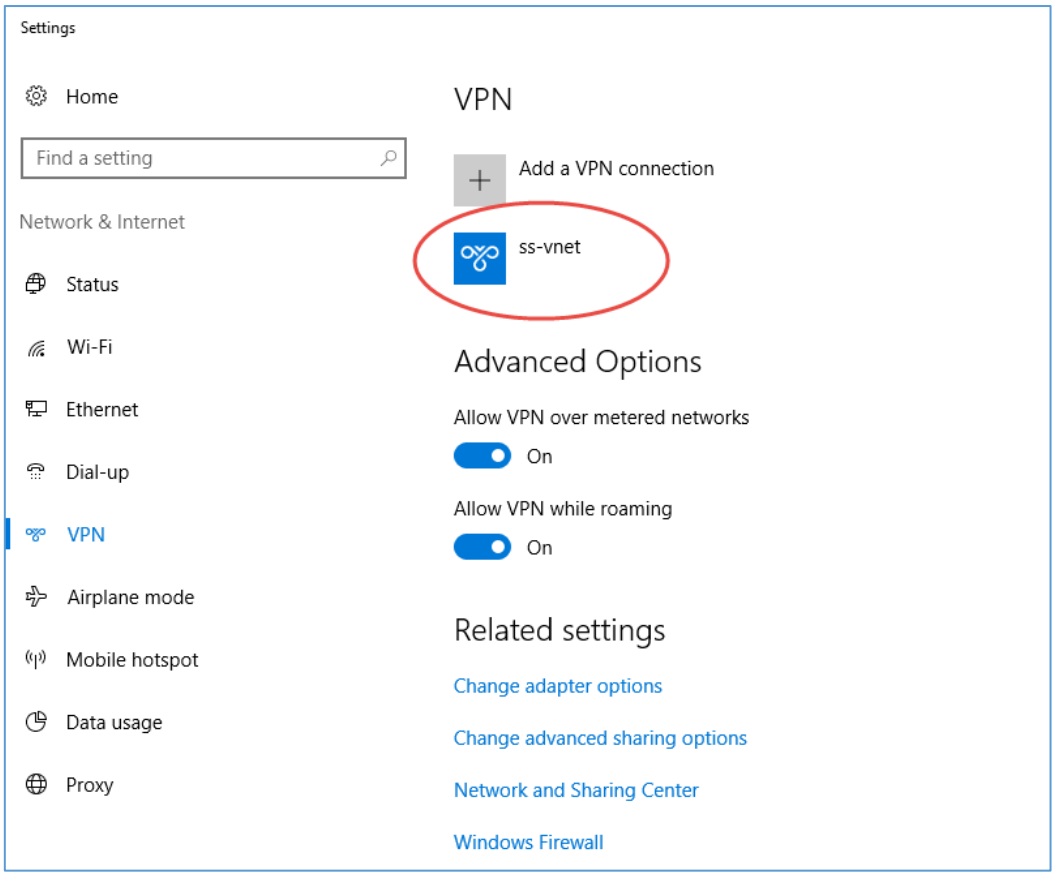
29) It opens another blade where you can select 32bit or 64bit version of the VPN client. Select appropriate one for you client machine and click download.



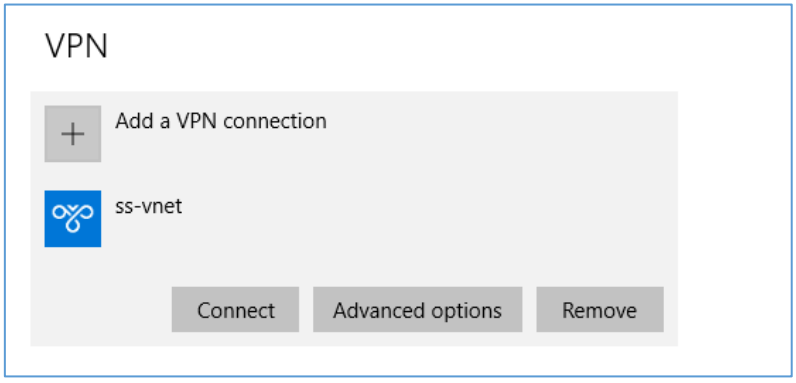
30) Install the client application as administrator, If it asks for confirmation click on 'Run anyway' (in windows8 or later clients).



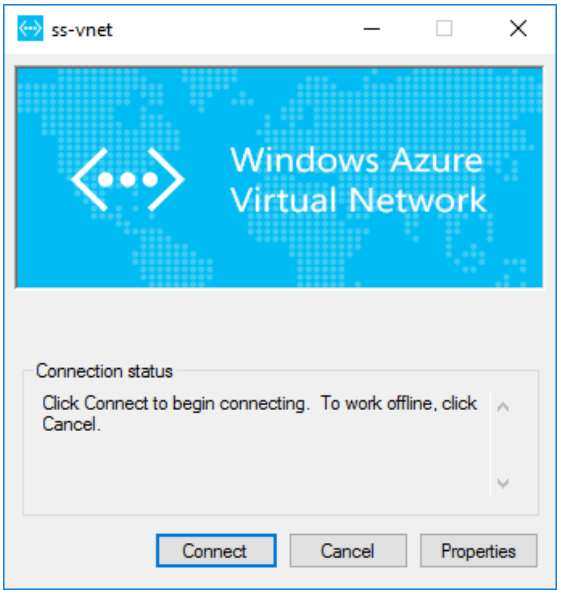
31) Once installation is completed you can goto the Network settings window and you can see the installed VPN client.



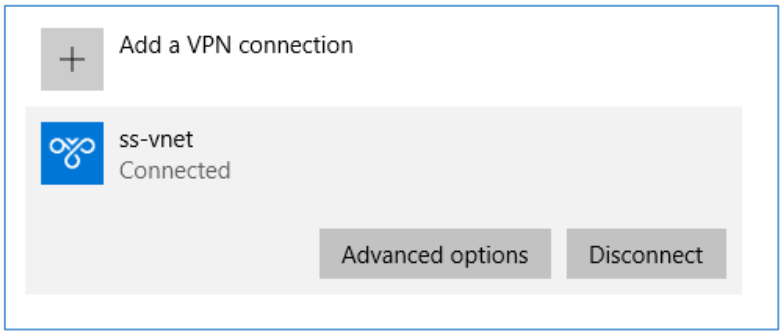
32) Click to connect to the VNET.



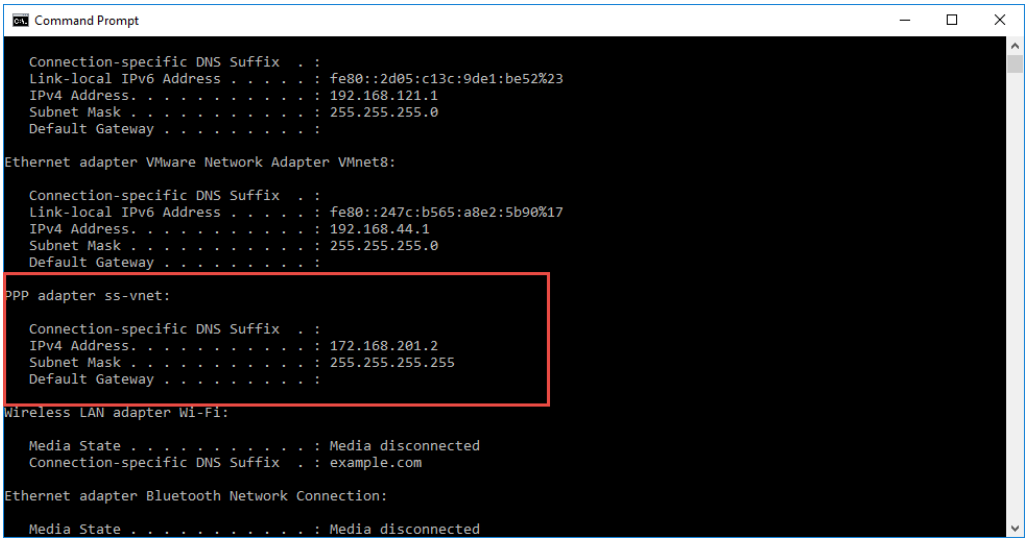
33) It pops up a dialog box and click on connect.



34) Once the connection is successful, you can see that the you are connected to the VNET.



35) You now goto command prompt and try ***ipconfig*** command to check the connectivity.



Thank you