# **New Assets in West Europe**

#### 1. Virtual Network

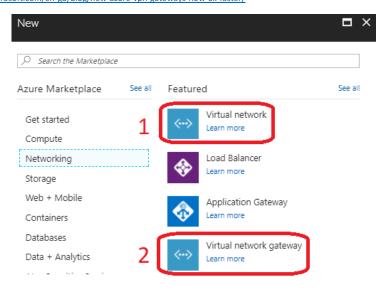
- a. Click New ---> Networking ---> Virtual Network.
  - This will open Create Virtual Network Blade Please fill in the form.
- b. Virtual Network Name **EUVNet**
- c. Address Space 192.168.10.0/24
- d. Resource Group EUVNets
- e. Location West Europe
- f. Subnet **Production**
- g. Address Range 192.168.10.0/25
- h. Check Pin to Dashboard
- i. Click Create
- j. Q-A Why West Europe?

#### 2. Virtual Network Gateway

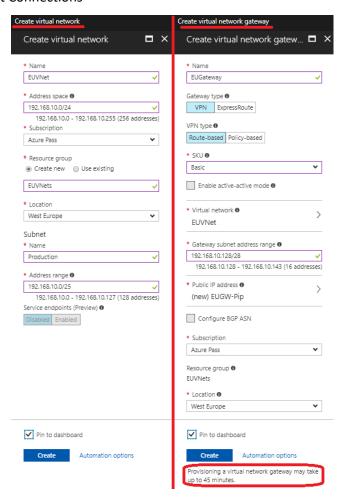
- a. Click New ---> Networking ---> Virtual Network Gateway
- b. Name **EUGateway**
- c. Gateway Type VPN
- d. VPN Type Route-Based
- e. SKU Basic SKU (Stock Keeping Unit)
- f. Choose EUVNet as Virtual Network
- g. Gateway Subnet Address Range will be created automatically
- h. Create a new Public Ip Address with the name EUGW-Pip
- i. Check Pin to Dashboard
- j. Click Create (this may take time up to 40-45 Minutes)

#### For Further Reading

 $\frac{\text{https://blogs.msdn.microsoft.com/azureedu/2017/06/23/new-azure-vpn-gateway-skus-provide-much-higher-bandwidth-for-hybrid-workloads/https://docs.microsoft.com/en-us/azure/search/search-sku-tier/https://azure.microsoft.com/en-gb/blog/new-azure-vpn-gateways-now-6x-faster/$ 



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## **New Assets in South Central US**

#### 1. Virtual Network

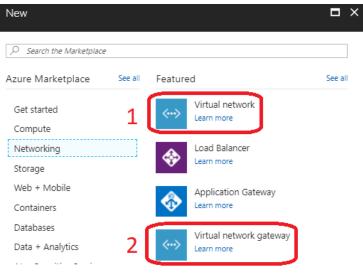
- a. Click New ---> Networking ---> Virtual Network.
  - This will open **Create Virtual Network** *Blade* Please fill in the form.
- b. Virtual Network Name USVNet
- c. Address Space 192.168.20.0/24
- d. Resource Group USVNets
- e. Location South Central US
- f. Subnet **Development**
- g. Address Range 192.168.20.0/25
- h. Check Pin to Dashboard
- i. Click Create

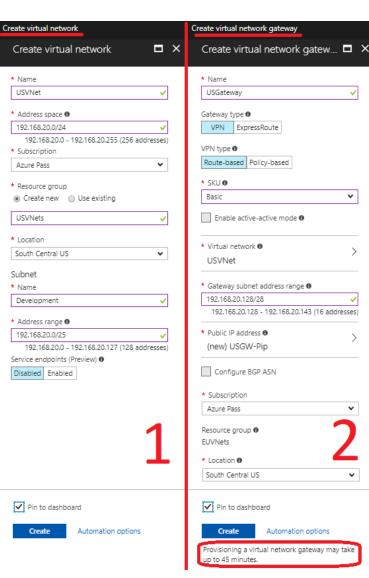
### 2. Virtual Network Gateway

- a. Click New ---> Networking ---> Virtual Network Gateway
- b. Name **USGateway**
- c. Gateway Type VPN
- d. VPN Type Route-Based
- e. SKU Basic SKU (Stock Keeping Unit)
- f. Choose **USVNet** as Virtual Network
- g. Gateway Subnet Address Range will be created automatically
- h. Create a new Public Ip Address with the name USGW-Pip
- i. Check Pin to Dashboard
- j. Click Create (this may take time up to 40-45 Minutes)

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#### **VNet Connections**





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# **Create VPN Connection (QA Point to West Europe Site)**

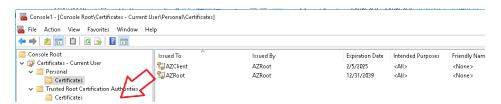
### **Step 1 Certificate Creation**

We will create a connection to the azure site from client computer.

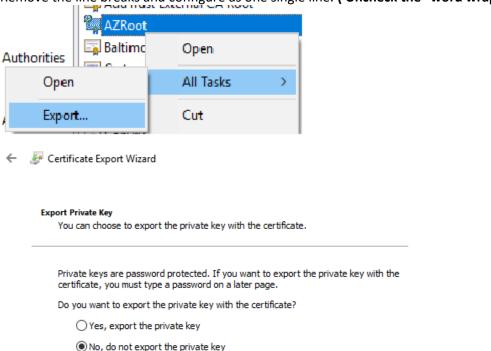
- 1. Copy the file makecert.exe file to system32 folder from C:\azure\makecert folder.
  - copy C:\CemVarol-Azure\makecert\makecert.exe C:\Windows\System32
- 2. run these commands or run the AZCerts.bat file
  - makecert.exe -sky exchange -r -n "CN=AZRoot" -pe -a sha1 -len 2048 -ss My "AZRoot.cer" makecert.exe -n "CN=AZClient" -pe -sky exchange -m 96 -ss My -in "AZRoot" -is my -a sha1
- 3. Open an mmc console and access to certificates for the My User Account
- 4. Check that you have two certificates



Drag the certificate AZRoot and drop into Trusted Root Certification Authorities. Then your certificate will be OK.



- 6. Export the AZRoot Certificate, without the private key, as Base-64
- 7. Open the exported certificate with notepad.
- 8. Copy the text within the ---- parts (without begin and end certificate)
- 9. Remove the line breaks and configure as one single line. ( Uncheck the "word wrap")



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20 meetions	
Select the format you want to use:	
OER encoded binary X.509 (.CER)	
Base-64 encoded X.509 (.CER)	
Oryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)	
Include all certificates in the certification path if possible	
Personal Information Exchange - PKCS #12 (.PFX)	
Include all certificates in the certification path if possible	
Delete the private key if the export is successful	
Export all extended properties	
Enable certificate privacy	
Microsoft Serialized Certificate Store (.SST)	
BEGIN CERTIFICATE MIIC6jCCAdagAwIBAgIQn+VbLXWVx7tFCBGrfyqrPTAJBgUrDgMCHQUAMBExDzAN BgNVBAMTBkFaUm9vdDAeFw0xNzA2MjgxMjI2MjZaFw0z0TEyMzEyMzU5NTlaMBEx DzANBgNVBAMTBkFaUm9vdDCCASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEB ANDk7qDLvxpoBdh07hmqAmxCT3Gtdmksb5kvj4sGBRj8wfZhYSjP9VbaeDVv0Jok YcD6GXVY/15xQe111TnWZee8BIy5p97xesxxUvm+rRLu2V58X2Y+NQFb4a4dpvqn Sb8WxWTFDFh03KTrNJXmeFnfcSBfsLRvTphW+k3mVyy1s1JVz6rtt/rqvjGMPymo pu3p35V/14PoFXPRwz40u6/IwxbVm07cPF/Sf+NdTbxe8ebxzDOMfgP+TCfRG07x DScRE8ZFOMPAJiNdbKB491YMGmldtdPnEbpmVVY8q4oovSGJPMWsYgJF1Njy7/IV Ms1an01jt/CINspCa+Ld04kCAwEAAaNGMEQwQgYDVR0BBDsw0YAQ4U30T8rUy+6m BaG4HWnM9KETMBExDzANBgNVBAMTBkFaUm9vdIIQn+VbLXWVx7tFCBGrfyqrPTAJ BgUrDgMCHQUAA4IBAQBejFujWqKFTKUc7yogbDNdZtFWRkMW7y+7uX+4Rb1U7t04 JKD5a1pNt1j+hYpGzH5gIHpPISFKTVgZy+cVxzpLA81WfORsvVxaEg0LqQKtGdLs /dHYxXn1CwSkRPSa2UWjK5X7kWQjpcOCwo/UStKB6x/SFUrtv7pxyRss8DdxiZ/D 0AOFoyZTra3ZGptx7zB+0RuQ183FE2NnDeGa4woY9vIe916mjePImzDFd82apEdA q34f9zzyAo8s2ZHqxGzR9Qn+fadfyRu2ri3H4sC8a0FgP4sGTfTn/Qrq80WFy9b8 h7Bj1vDwJupI3MVBwemi7A8D8UIJr+YOhBK0E2heEND CERTIFICATE	
aZRoot.cer-Notepad  Eile Edit Farmat View Help  MIICGjCCAdagAwIBAgIQn+VbLXWVx7tFCBGrfyqrPTAJBgUrDgMCHQUAMBExDzANBgNVBAMTBkFaUm9vdDAeFw0xNzA2MjgxMjI2MjZ	— □ × aFw0zOTEyMzEyMzU5NTlaMBExDzANBgNVBAMTBkFaUm9vdDCCASIwDQYJKc

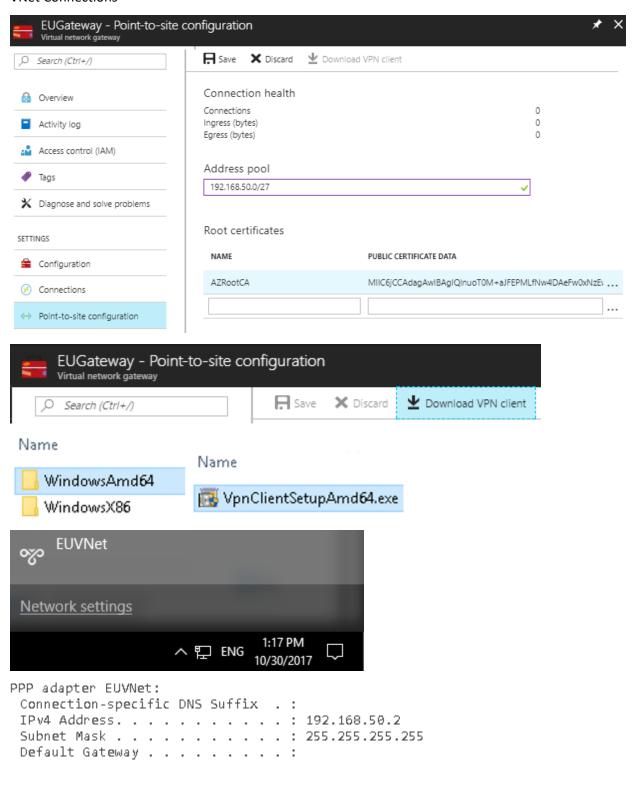
## **Step 2 Configuring Point to Site Connection**

- 1. Under your Dashboard, click **EUGateway**
- 2. Under EUGateway provide the VPN Address pool information as 192.168.50.0/27
- 3. Paste the certificate there, under the P2S Configuration
  - a. Certificate Name AZRootCA
- 4. Click **SAVE**
- 5. Once Created, **Download VPN Client** file, extract and install the 64 Bit Client to your Computer.
- 6. Connect to that EUVNet VPN Network.
- 7. Check ip addresses, you will see a new ip address with 192.168.50.X with 32-bit subnet mask

After this step, we completed creating a VPN service from QA Point to EUVNet Site

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#### **VNet Connections**

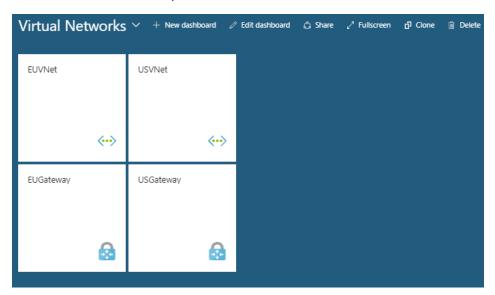


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# From Europe to US, VNet to VNet

Your Dashboard now has 4 assets,

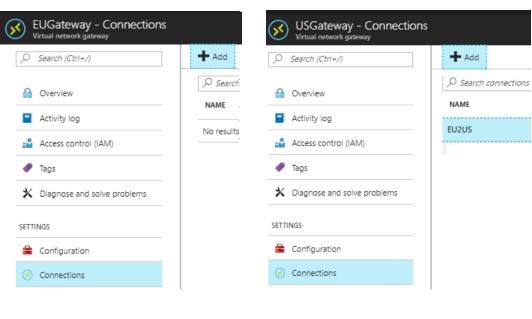
- 2 Virtual Networks and
  - EUVNet
  - USVNet
- 2 Virtual Network Gateways
  - EUGateway
  - USGateway

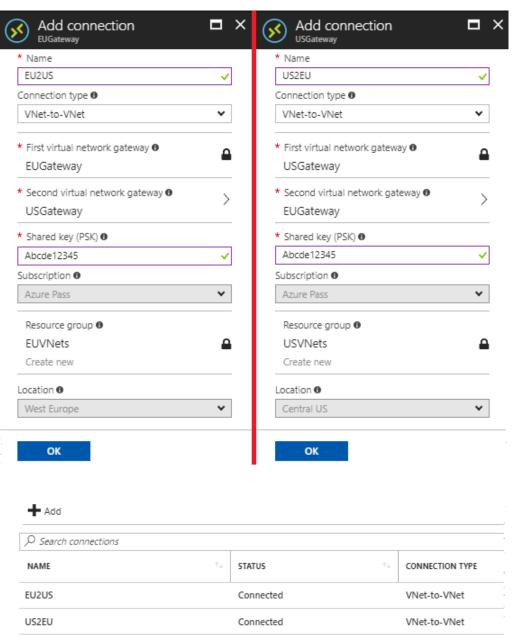


# Create Connection between Europe and US.

- 1. From Europe to US
  - a. On your Dashboard Click EUGateway
  - b. Click Connections
    - Click Add, this will open a new Blade
  - c. Name EU2US
  - d. Connection Type VNet-to-VNet
  - e. First virtual network gateway will be selected as source **EUGateway**
  - f. Second virtual network gateway USGateway
  - g. Shared Key (PSK) Abcde12345
- 2. From US to Europe
  - a. On your Dashboard Click USGateway
  - b. Click **Connections**, you will see *EU2US* here.
    - Click **Add**, this will open a new *Blade*
  - c. Name US2EU
  - d. Connection Type VNet-to-VNet
  - e. First virtual network gateway will be selected as source **USGateway**
  - f. Second virtual network gateway EUGateway
  - g. Shared Key (PSK) Abcde12345
    - This key must be the same with the other network, to complete authentication.

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