**Setting up a VPN and access an Azure Virtual Machine (VM) with a private IP from your local Windows machine**

**STEPS:**

* Create a Virtual network with testVPN resource group and add address range within our local network(16.0.1.0/24).
* Create a VM that is associated with the above vnet.
* Now Create a virtual network gateway with the above subnet an its ip address range.
* Create public ip in the network and configure the network gateway as the below image.
* Now, Generate azure certificates for root and child to download the vpn client.
* Download the certificates and go to configure certificates in network gateway and save them.
* Download the vpn client and connect to the client according to the system configuration(x64 or x86).
* Now, launch remote desktop connection and connect it with the private ip of the vm we created to access locally.
* This is a point-to-site connection which is mainly used for corporate activities like work from

home etc.

* We should download the certificates using the command below in powershell

Root Certificate:  
 $cert = New-SelfSignedCertificate -Type Custom -KeySpec Signature `  
-Subject "CN=NameofyourRootCert" -KeyExportPolicy Exportable `  
-HashAlgorithm sha256 -KeyLength 2048 `  
-CertStoreLocation "Cert:\CurrentUser\My" -KeyUsageProperty Sign -KeyUsage CertSign

ClienCertificate:

New-SelfSignedCertificate -Type Custom -DnsName P2SChildCert -KeySpecSignature `  
-Subject "CN=NameOfYourChildCert" -KeyExportPolicy Exportable `  
-HashAlgorithm sha256 -KeyLength 2048 `  
-CertStoreLocation "Cert:\CurrentUser\My" `  
-Signer $cert -TextExtension @("2.5.29.37={text}1.3.6.1.5.5.7.3.2")











