

About Rahul Joshi:

22 Years exp, 15th year as Microsoft certified trainer & AWS Authorized instructor

- Helping customers add Application Modernization capabilities by Replatforming ASP.NET sites to Azure App Services, Rearchitecting of monolithic applications to microservices or containers.
- Reengineering of legacy applications to cloud-native apps with improved user experience.
- Designing cloud strategy, solution design, cloud adoption frameworks, app modernization and cloud migration.
- Develop Proof of Concept by working closely with Microsoft and Amazon Web Services and design frameworks for cloud adoption and Enterprise Architecture, Cloud Infrastructure/ Migrations.
- Responsible for Migration to Microsoft Azure (Brownfield and Greenfield Projects). In-Premise To Cloud Migration and Storage Migration.
- Perform Application Readiness Assessment, an investigation at application level in preparation for cloud deployment, to look at issues that will either block or detract from the application's abilities to fully utilize the cloud, then act on this report to ensure cloud readiness.
- Designing applications for scalability
- Migrating to PaaS & Container Architecture, Migrating from Traditional .NET Application Web Apps

"Executed more than 580+ Trainings engagements on Microsoft Azure for more than 220+ clients"

Google Drive Link:

https://drive.google.com/drive/folders/181ebdbVLk5xpLu5ArR_BFWeM9b3N2x3?usp=sharing

Recording:

Please Note, Post Session Completes Zoom Recording Link will be shared on WhatsApp, Download it from Zoom Directly. It will not be uploaded on Google Drive

One Note Documentation:

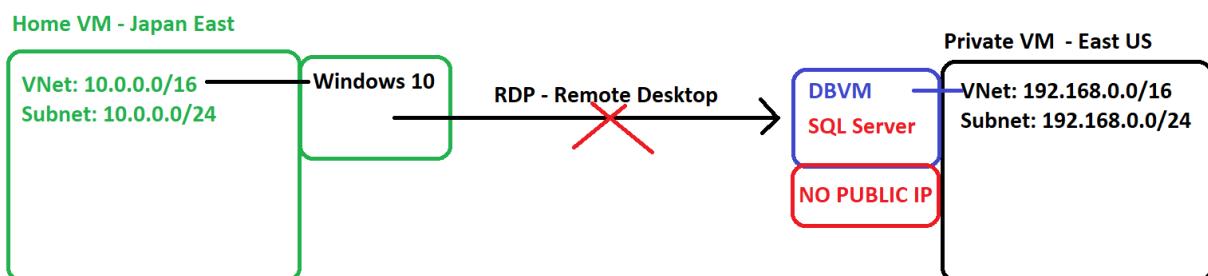
<https://1drv.ms/u/s!Aht-oGFG3XwWgagy2dnZHuXQmk0wkg>

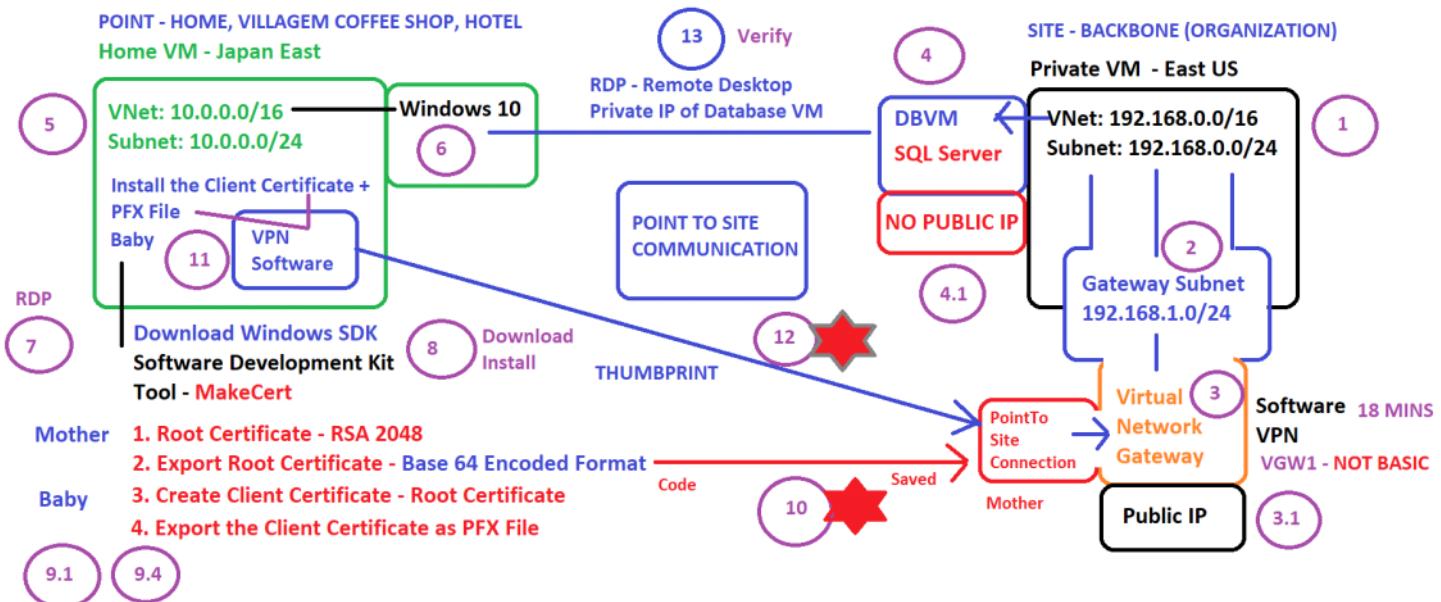
Case Study:

The Customer was very happy with the way, the professionals have demonstrated Vnet To Vnet and Vnet Peering, which helps connect environments in different regions. Both Vnet to Vnet and Vnet Peering had technical difference and once's weakness was other service feature.

The customer has now requested another strategy of networking. There is a Virtual Machine in the Organization which contains sensitive data (This VM is used by DBA's as it contain databases of organization and customer) and Public IP is not assigned to this Virtual Machine. You are a Database Administrator and you keep on travelling across the world and do not work directly from the organization's office. Sometimes, Home, Village, Coffee Shop, Or any Hotel, but as a DBA, you always want to connect to that Virtual Machine which has databases and does not a public IP.

The customer wants us to demonstrate how a person connecting from remote locations, access the Private Virtual Machine.





Task: Private Virtual Network - East US

The screenshot shows the 'Virtual networks' blade in the Azure portal. It displays a list of virtual networks, with one entry visible:

- Name: rg-pointosite-remove
- Description: Default Directory (talktorahuljoshioutlook.onmicrosoft.com)
- Status: Active
- Last modified: 1 hour ago

Below the list are filter and search options, and a 'Create' button.

Create virtual network ...

The screenshot shows the 'Create virtual network' wizard in the Azure portal, on the 'Basics' step.

Basics

Project details

- Subscription:** MSDN Platforms
- Resource group:** (New) rg-pointosite-remove

Instance details

- Name:** vnetprivatemeastus
- Region:** East US

Review + create < Previous Next : IP Addresses > Download a template for automation

Create virtual network ...

Basics IP Addresses Security Tags Review + create

The virtual network's address space, specified as one or more address prefixes in CIDR notation (e.g. 192.168.1.0/24).

IPv4 address space

 ✓ X

Add IPv6 address space ⓘ

The subnet's address range in CIDR notation (e.g. 192.168.1.0/24). It must be contained by the address space of the virtual network.

+ Add subnet X Remove subnet

Subnet name Subnet address range NAT gateway

DBSubnet 192.168.0.0/24

i A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway. [Learn more ⓘ](#)

Create virtual network ...

Basics IP Addresses Security Tags Review + create

BastionHost ⓘ Disable Enable

DDoS Protection Standard ⓘ Disable Enable

Firewall ⓘ Disable Enable

Create virtual network ...

✓ Validation passed

Basics IP Addresses Security Tags Review + create

Basics

Subscription MSDN Platforms
Resource group (new) rg-pointosite-remove
Name vnetprivatevmeastus
Region East US

IP addresses

Address space 192.168.0.0/16
Subnet DBSubnet (192.168.0.0/24)

Tags

None

Security

BastionHost Disabled
DDoS protection plan Basic

Create

< Previous

Next >

[Download a template for automation](#)

Microsoft.VirtualNetwork-20220910110725 | Overview

Deployment

Search (Ctrl+ /) Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

We'd love your feedback! →

Your deployment is complete

Deployment name: Microsoft.VirtualNetwork-20220... Start time: 9/10/2022
Subscription: MSDN Platforms Correlation ID: 214
Resource group: rg-pointosite-remove

Deployment details Next steps Go to resource

Home > Microsoft.VirtualNetwork-20220910110725 | Overview > vnetprivatevmeastus

vnetprivatevmeastus | Subnets Virtual network

Search (Ctrl+ /) + Subnet + Gateway subnet Refresh Manage users Delete

Search subnets

Name	IPv4	IPv6	Available IPs	De
DBSubnet	192.168.0.0/24	-	251	-

Add subnet

Rahul V Joshi

Name

Subnet address range *
192.168.1.0 - 192.168.1.255 (251 + 5 Azure reserved addresses)

Add IPv6 address space

NAT gateway
 None

Network security group None

Route table None

SERVICE ENDPOINTS

Create service endpoint policies to allow traffic to specific Azure resources from your virtual network over service endpoints. [Learn more](#)

Services
 0 selected

SUBNET DELEGATION

Save Cancel

Rahul V Joshi
Successfu
Successfully ai
network 'vnetj'

vnetprivatevmeastus | Subnets

Virtual network

Search (Ctrl+ /) Subnet Gateway subnet Refresh Manage users Delete

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Settings Address space Connected devices Subnets Bastion DDoS protection Firewall

Subnets

Search subnets

Name ↑	IPv4 ↑	IPv6 ↑	Available IPs ↑	Delegated to ↑	Sec
DBSubnet	192.168.0.0/24	-	251	-	-
GatewaySubnet	192.168.1.0/24	-	availability dependent ...	-	-

Creating Virtual Network Gateway - East US

Microsoft Azure

Search resources, services, and docs (G+/)

Home > Create a resource

Create a resource

Get Started Get it!

Recently created

Popular Azure services See more in All services

Categories

- Virtual machine
- AI + Machine Learning
- Analytics
- Blockchain
- Cloud
- Compute
- Container
- Database
- Dev/Test
- File Storage
- General
- Machine Learning
- Memory Optimized
- Networking
- Storage
- Virtual Machines
- Virtual Network
- Web

Home > Create a resource >
Virtual network gateway

Virtual network gateway Add to Favorites

Microsoft

★ 4.0 (21 Marketplace ratings) | ★ 4.0 (14 external ratings)

Plan

Overview Plans Usage Information + Support Reviews

Create virtual network gateway ...

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

Resource group

Instance details

Name *

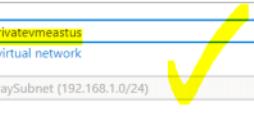
Region *

Gateway type * VPN ExpressRoute

VPN type * Route-based Policy-based

SKU *

Generation

Virtual network * 
[Create virtual network](#)

Subnet

Public IP address

Public IP address * Create new Use existing

Public IP address name *

Public IP address SKU Standard

Assignment Dynamic Static

Enable active-active mode * Enabled Disabled

Configure BGP * Enabled Disabled

Azure recommends using a validated VPN device with your virtual network gateway. To view a list of validated devices and instructions for configuration, refer to Azure's [documentation](#) regarding validated VPN devices.

[Review + create](#)

[Previous](#)

[Next : Tags >](#)

[Download a template for automation](#)

Create virtual network gateway ...

 Validation passed

[Basics](#) [Tags](#) [Review + create](#)

Basics

Subscription	MSDN Platforms
Resource group	rg-pointosite-remove
Name	vpngatewayprivatevm
Region	East US
SKU	VpnGw1
Generation	Generation1
Virtual network	vnetprivatevmeastus
Subnet	GatewaySubnet (192.168.1.0/24)
Gateway type	Vpn
VPN type	RouteBased
Enable active-active mode	Disabled
Configure BGP	Disabled
Public IP address	vpngatewaypublicip

Tags

None

[Create](#)

[Previous](#)

[Next](#)

[Download a template for automation](#)

Microsoft.VirtualNetworkGateway-20220910111254 | Overview

Deployment

Search (Ctrl+ /) Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

We'd love your feedback!

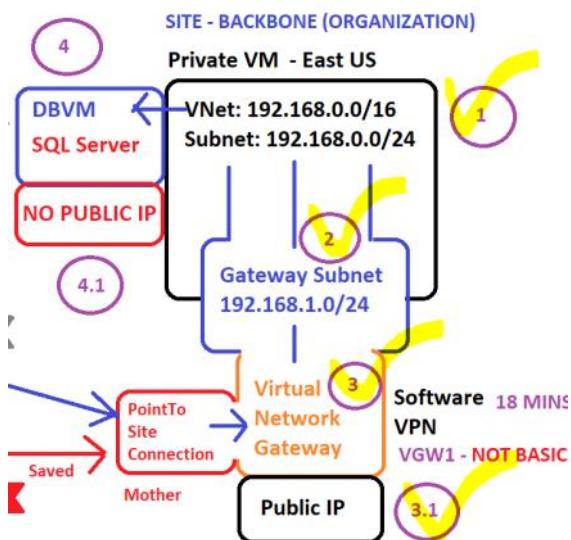
... Deployment is in progress

Deployment name: Microsoft.VirtualNetworkGateway-2... Start time: 9/10/2022, 11:15:10 AM
Subscription: MSDN Platforms Correlation ID: cde0ae80-4363-4e7
Resource group: rg-pointosite-remove

Deployment details

Resource	Type	Status	Operation
No results.			

18 minutes it takes



Create Virtual Machine - Windows Server 2016 Datacenter - Private VM (No Public IP)

Virtual machines

Default Directory (talktorahuljoshioutlook.onmicrosoft.com)

Create Switch to classic Reservations Manage view

Filter for any field... Subscription equals all Type equals all

Name ↑	Type ↑	Subscription ↑

Create a virtual machine

for full customization. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *

Resource group * [Create new](#)

Virtual machine name *

Region *

Availability options

Security type

Image * [See all images](#) | [Configure VM generation](#)

VM architecture Arm64 x64

Run with Azure Spot discount

Size * [See all sizes](#)

Administrator account

Username *

Password *

Confirm password *

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * None Allow selected ports

Select inbound ports *

⚠ This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Licensing

Save up to 49% with a license you already own using Azure Hybrid Benefit. [Learn more](#)

Would you like to use an existing

[Review + create](#)

< Previous

Next : Disks >

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks.
The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

Disk options

OS disk type * Standard HDD (locally-redundant storage) The selected VM size supports premium disks. We recommend Premium SSD for high IOPS workloads. Virtual machines with Premium SSD disks qualify for the 99.9% connectivity SLA.

Delete with VM

Enable encryption at host Encryption at host is not registered for the selected subscription. [Learn more about enabling this feature](#)

Encryption type * (Default) Encryption at-rest with a platform-managed key

Enable Ultra Disk compatibility Ultra disk is supported in Availability Zone(s) 1,2,3 for the selected VM size Standard_B2ms.

Data disks for PrivateVM

[Review + create](#) [< Previous](#) [Next : Networking >](#)

Create a virtual machine ...

Basics Disks **Networking** Management Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more](#)

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network * vnetprivatevmastus [Create new](#)

Subnet * DBSubnet (192.168.0.0/24) [Manage subnet configuration](#)

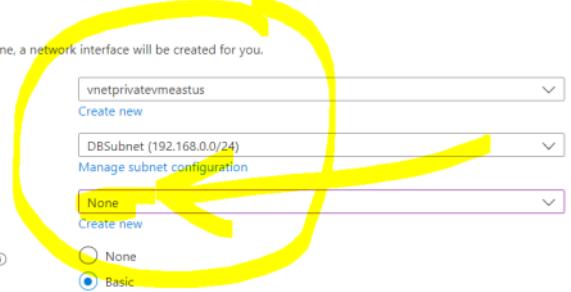
Public IP None [Create new](#)

NIC network security group None Basic Advanced

Public inbound ports * None Allow selected ports

Select inbound ports * RDP / 3389

[Review + create](#) [< Previous](#) [Next : Management >](#)



Create a virtual machine ...

Basics Disks Networking **Management** Advanced Tags Review + create

Configure monitoring and management options for your VM.

Microsoft Defender for Cloud

Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

Your subscription is protected by Microsoft Defender for Cloud basic plan.

Monitoring

Boot diagnostics Enable with managed storage account (recommended) Enable with custom storage account Disable

Enable OS guest diagnostics

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Add additional configuration, agents, scripts or applications via virtual machine extensions or cloud-init.

Extensions

Extensions provide post-deployment configuration and automation.

Extensions ⓘ Select an extension to install

VM applications

VM applications contain application files that are securely and reliably downloaded on your VM after deployment. In addition to the application files, an install and uninstall script are included in the application. You can easily add or remove application to your VM after creation. [Learn more](#)

Select a VM application to install

Custom data

Pass a script, configuration file, or other data into the virtual machine **while it is being provisioned**. The data will be saved to the VM in a known location. [Learn more about custom data for VMs](#)

Custom data

[Review + create](#)

< Previous

Next : Tags >

Create a virtual machine ...

✓ Validation passed

Basics Disks Networking Management Advanced Tags [Review + create](#)

Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

PRODUCT DETAILS

1 X Standard B2ms
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply ⓘ
5.9942 INR/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) I above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

⚠ You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting

[Create](#)

< Previous

Next >

[Download a template for automation](#)

Task: Now, we create Network for Windows 10 VM - Japan East

Virtual networks ⚡ ...

Default Directory (talktorahuljoshioutlook.onmicrosoft.com)

[+ Create](#) [Manage view](#) [Refresh](#) [Export to CSV](#)

Filter for any field... [Subscription equals all](#) [Resource](#)

Name ↑↓

↗ vnetprivatemastus

Create virtual network ...

Basics IP Addresses Security Tags Review + create

Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks. VNet is similar to a traditional network that you'd operate in your own data center, but brings with it additional benefits of Azure's infrastructure such as scale, availability, and isolation. [Learn more about virtual network](#)

Project details

Subscription * Resource group * [Create new](#)

Instance details

Name * Region *

[Review + create](#) [< Previous](#) [Next : IP Addresses >](#) [Download a template for automation](#)

Create virtual network ...

Basics IP Addresses Security Tags Review + create

The virtual network's address space, specified as one or more address prefixes in CIDR notation (e.g. 192.168.1.0/24).

IPv4 address space [10.0.0 ~ 10.255.255 \(65536 addresses\)](#)

Add IPv6 address space

The subnet's address range in CIDR notation (e.g. 192.168.1.0/24). It must be contained by the address space of the virtual network.

[+ Add subnet](#) [Remove subnet](#)

Subnet name	Subnet address range	NAT gateway
<input type="checkbox"/> HomeSubnet	<input type="text" value="10.0.0/24"/>	-

[! A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway. \[Learn more\]\(#\)](#)

[Review + create](#) [< Previous](#) [Next : Security >](#) [Download a template for automation](#)

Create virtual network ...

Basics IP Addresses Security Tags Review + create

BastionHost Disable Enable

DDoS Protection Standard Disable Enable

Firewall Disable Enable

Now we will create Windows 10 VM -

PLEASE NOTE, THIS IS ACTING LIKE OUR LOCAL LAPTOP, AS WE DO NOT WANT TO PLAY AND INSTALL ANY SOFTWARE ON LOCAL PERSONAL LAPTOP, WE ARE CREATING THIS WINDOWS 10 FAKE MACHINE.

Create a virtual machine

Subscription *

Resource group * [Create new](#)

Instance details

Virtual machine name *

Region *

Availability options

Security type

Image *
[See all images](#) | [Configure VM generation](#)

VM architecture Arm64 x64
⚠️ Arm64 is not supported with the selected image.

Size *
[See all sizes](#)

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * None Allow selected ports

Select inbound ports *

⚠️ This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Licensing

I confirm I have an eligible Windows 10/11 license with multi-tenant hosting rights. *

Review multi-tenant hosting rights for Windows 10/11 compliance requirements.

[Review + create](#) [< Previous](#) [Next : Disks >](#)

Create a virtual machine

Basics [Disks](#) [Networking](#) [Management](#) [Advanced](#) [Tags](#) [Review + create](#)

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

Disk options

OS disk type *
The selected VM size supports premium disks. We recommend Premium SSD for high IOPS workloads. Virtual machines with Premium SSD disks qualify for the 99.9% connectivity SLA.

Delete with VM

Enable encryption at host

Encryption at host is not registered for the selected subscription. [Learn more about enabling this feature](#)

Encryption type *

Enable Ultra Disk compatibility
Ultra disk is supported in Availability Zone(s) 1,2,3 for the selected VM size Standard_B4ms.

Data disks for HomePC

[Review + create](#) [< Previous](#) [Next : Networking >](#)

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more](#)

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network *

Subnet *

Public IP

NIC network security group None Basic Advanced

Public inbound ports * None Allow selected ports

Select inbound ports *

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Configure monitoring and management options for your VM.

Microsoft Defender for Cloud

Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid workloads. [Learn more](#)

Your subscription is protected by Microsoft Defender for Cloud basic plan.

Monitoring

Boot diagnostics Enable with managed storage account (recommended)
 Enable with custom storage account
 Disable

Enable OS guest diagnostics

Identity

Enable system assigned managed identity

Azure AD

Create a virtual machine ...

Validation passed

Basics Disks Networking Management Advanced Tags [Review + create](#)

i Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

PRODUCT DETAILS

1 X Standard B4ms by Microsoft Subscription credits apply ⓘ **15.7059 INR/hr** Pricing for other VM sizes

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

⚠ You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go [here](#)

[Create](#) [Next >](#) Download a template for automation



My Drive > Microsoft Azure Master Batch 3 > Data > Point To Site < More

Name	Owner
Point To Site Steps.txt	me

Task: Login To Windows 10 and Create Root Certificate and Client Certificate

[Windows SDK - Windows app development | Microsoft Developer](#)

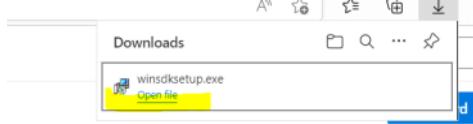
Getting started

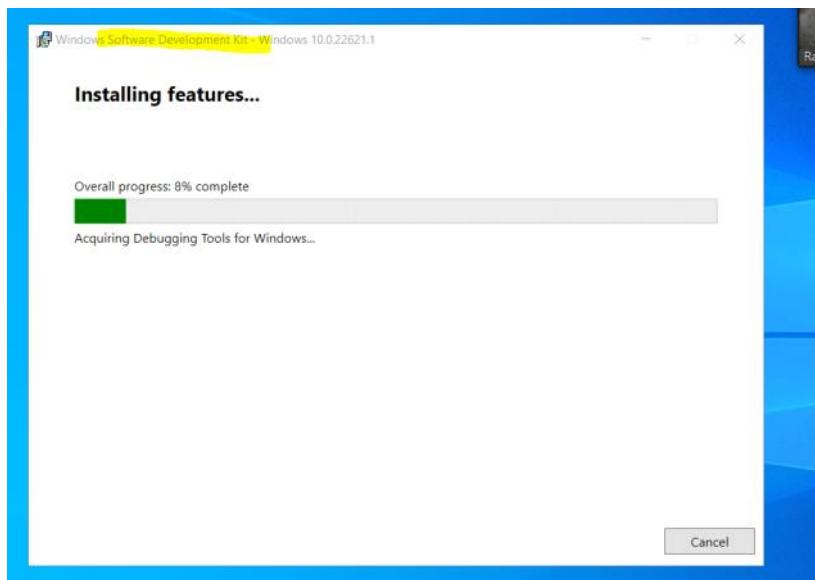
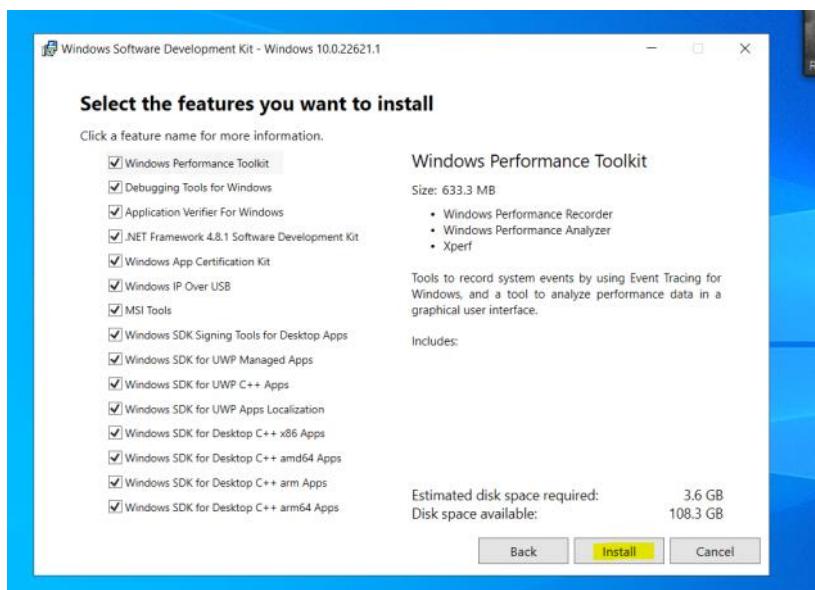
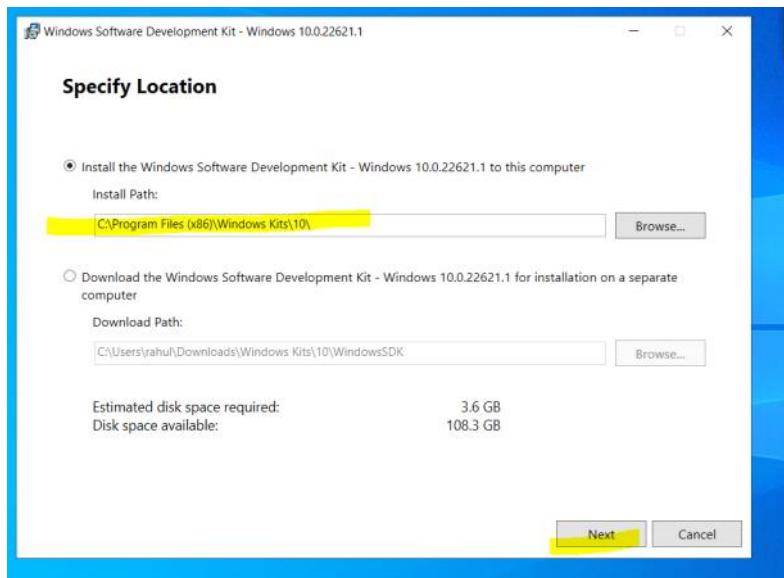
You can get the Windows SDK in two ways: install it from this page by selecting the download link or use the optional components of the Visual Studio 2022 Installer. Before you install this SDK:

- Review all [system requirements](#).
- Exit Visual Studio prior to installation.
- Review the [Release notes](#) and [Known Issues](#).

[Download the installer >](#) 

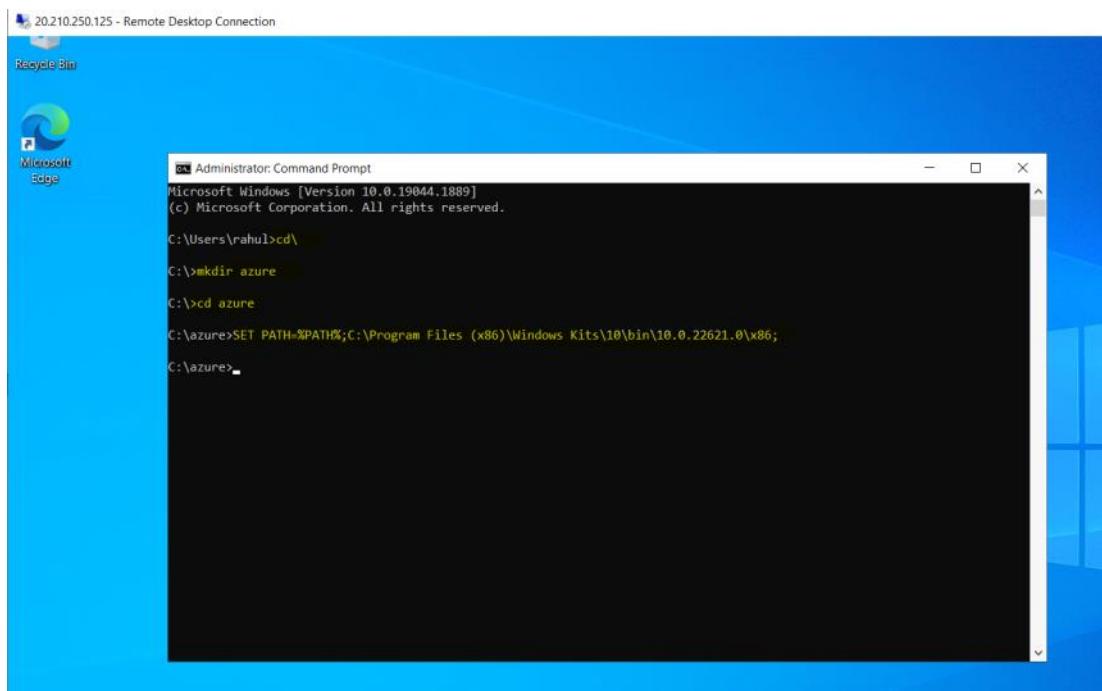
[Download the .iso >](#)





This can take 3-5 minutes to complete

SET PATH=%PATH%;C:\Program Files (x86)\Windows Kits\10\bin\10.0.22621.0\x86;



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

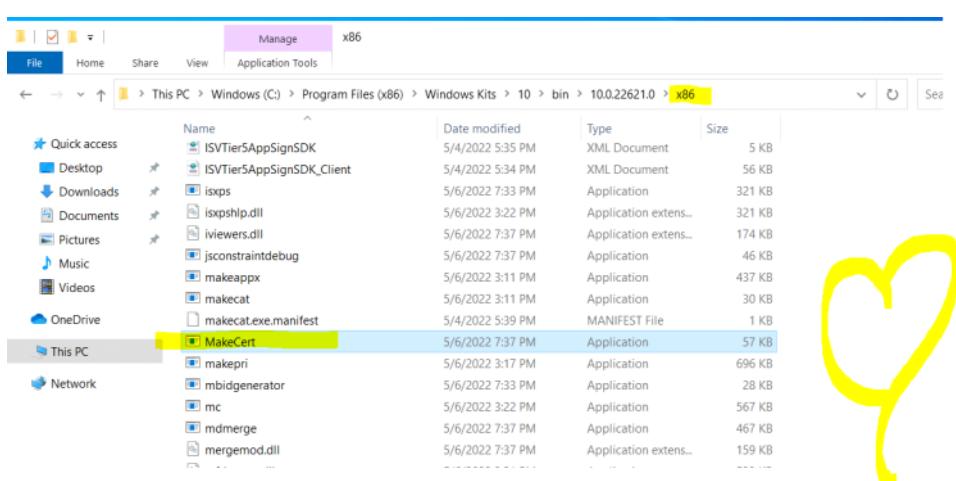
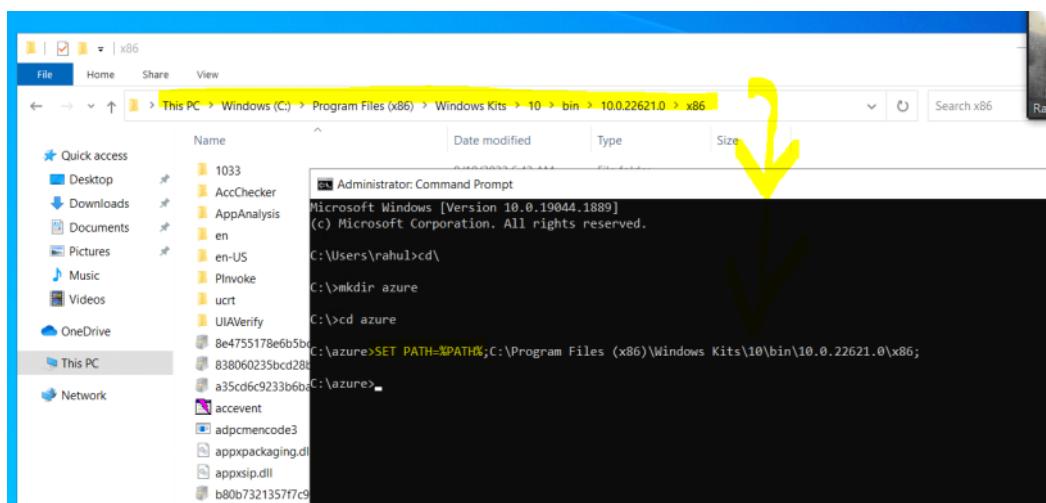
C:\Users\rahul>cd\

C:\>mkdir azure

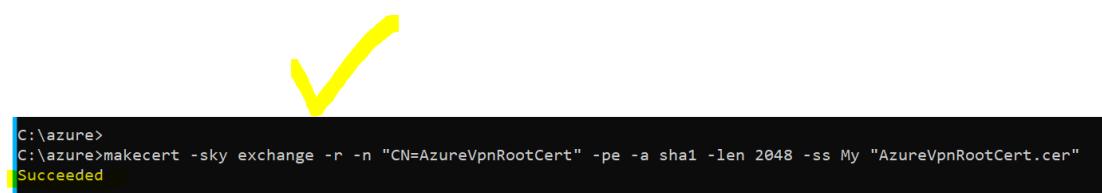
C:\>cd azure

C:\azure>SET PATH=%PATH%;C:\Program Files (x86)\Windows Kits\10\bin\10.0.22621.0\x86;

C:\azure>
```

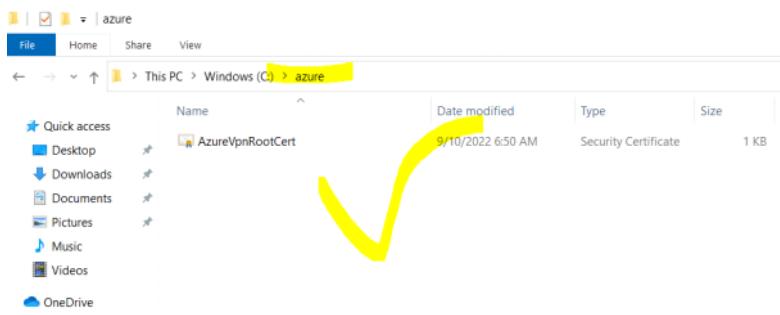


makecert -sky exchange -r -n "CN=AzureVpnRootCert" -pe -a sha1 -len 2048 -ss My "AzureVpnRootCert.cer"



```
C:\azure>
C:\azure>makecert -sky exchange -r -n "CN=AzureVpnRootCert" -pe -a sha1 -len 2048 -ss My "AzureVpnRootCert.cer"
Succeeded
```

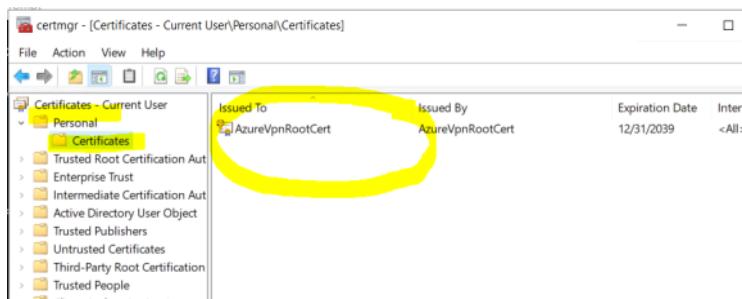
Verify?



2nd Place to Verify

Start - Run

certmgr.msc - You can find the certificate in Personal - Certificates.



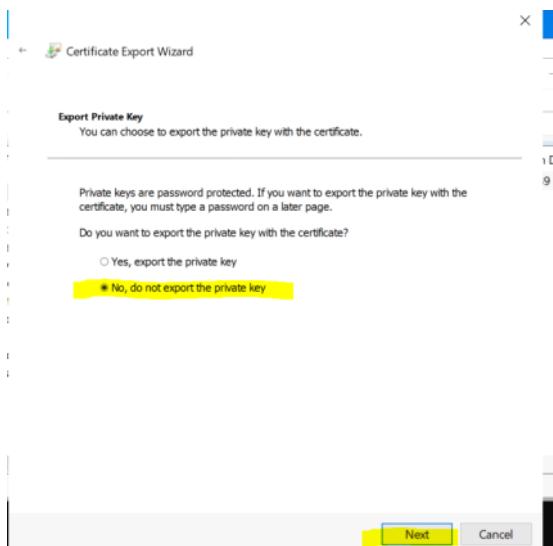
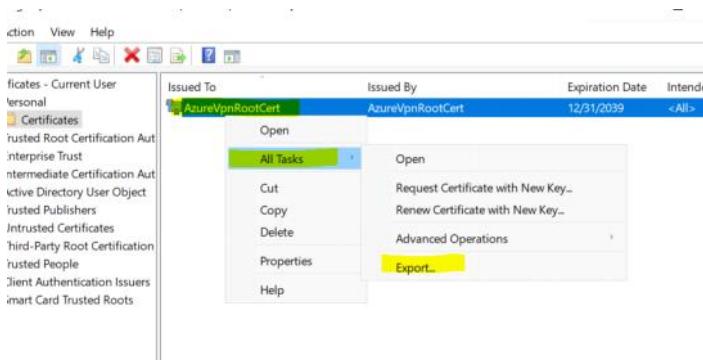
Now, we have to export the Certificate as Base64 Encoded Format

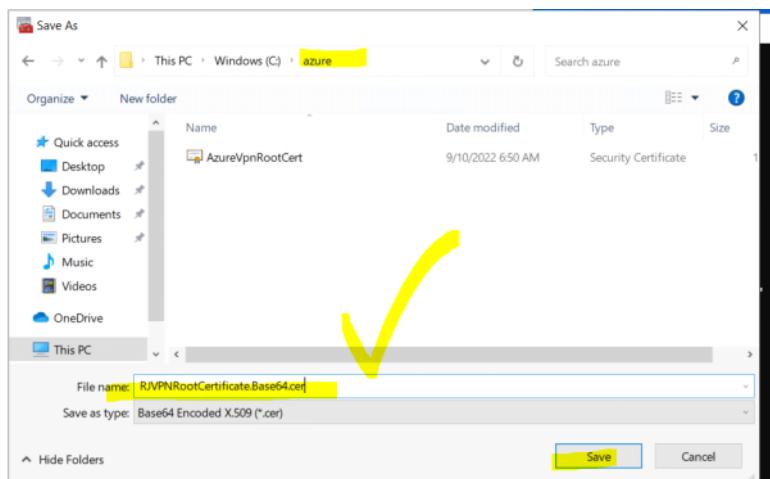
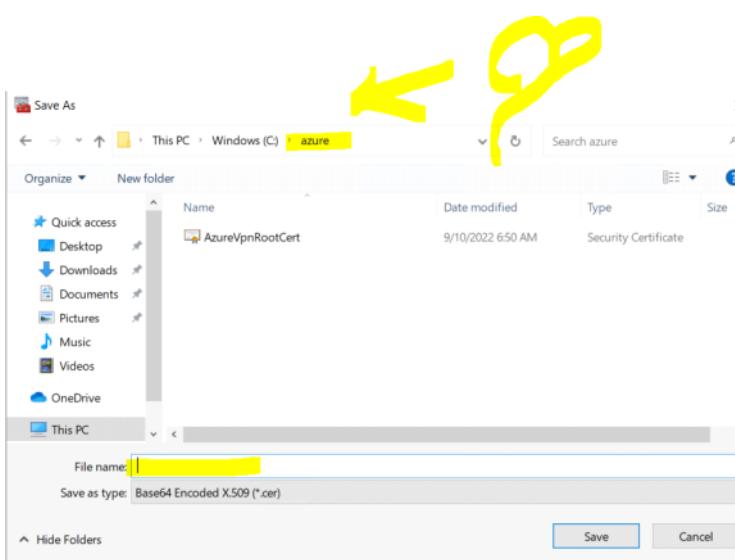
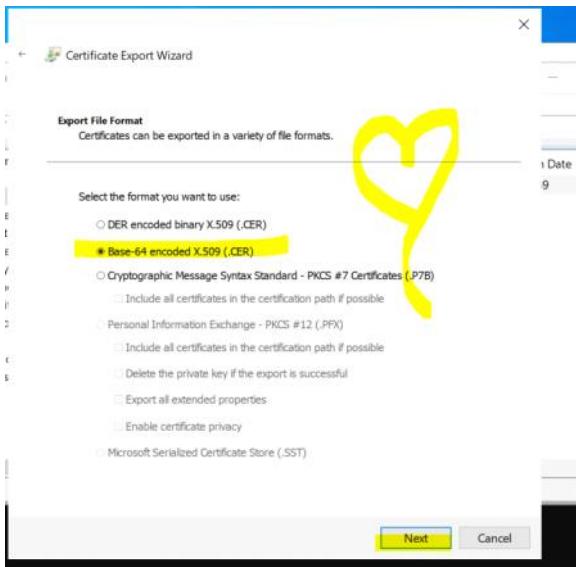
Right-click on the certificate name and click on export.

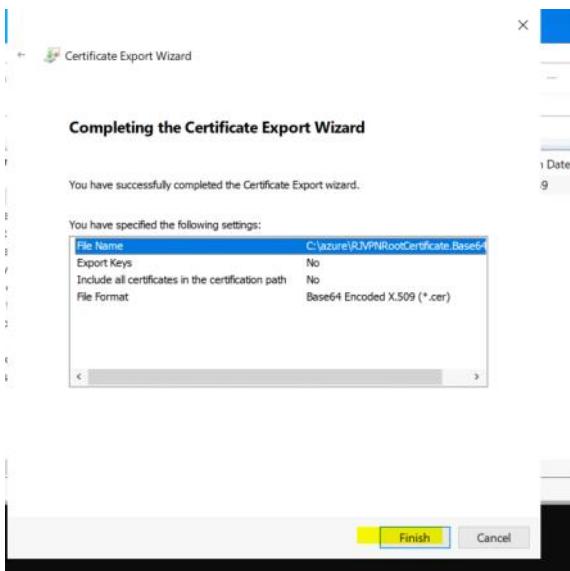
Do not export the private key.

Select Base-64 encoded X.509 (.Cer)

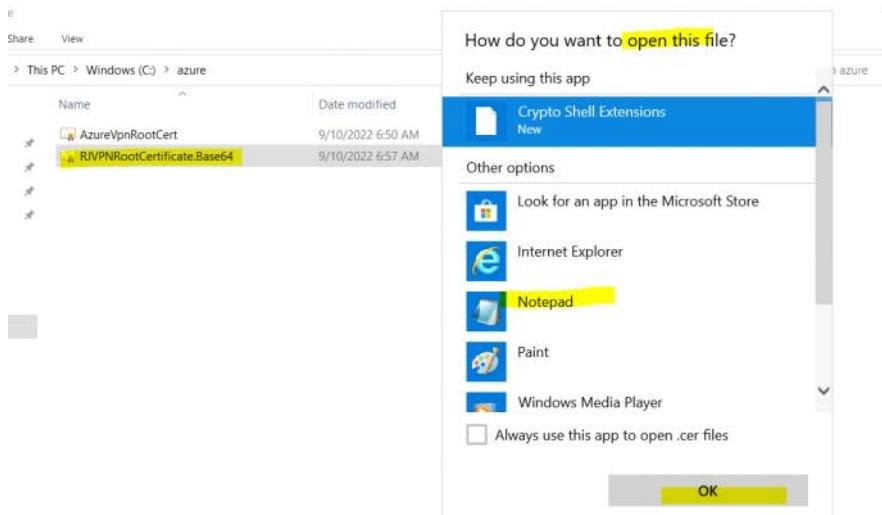
Save as **RJVPNRootCertificate.Base64.cer**







Are you interested to see how Base64 Encoded looks?



Now, we focus on Client Certificate, Please Note Client Certificate comes from (Input - Root Certificate)

- Create the Client Certificate
- pe Makes the certificate's private key exportable
- sky exchange - Create a certificate that can do key exchange

makecert -n "CN=RJAzureVPNClientCert" -pe -sky exchange -m 96 -ss My -in "AzureVpnRootCert" -is my -a sha1

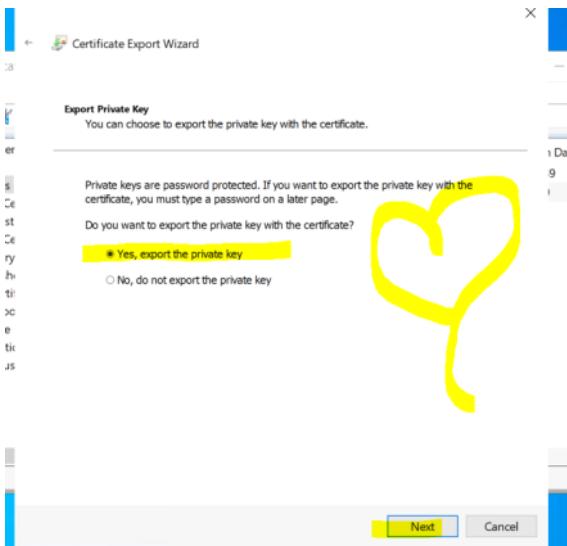
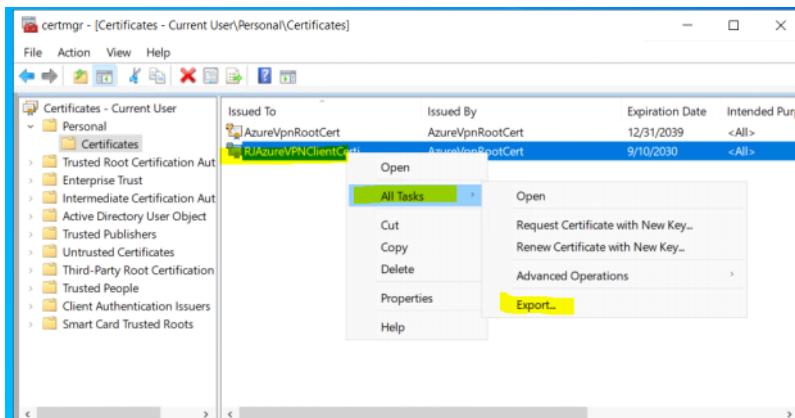
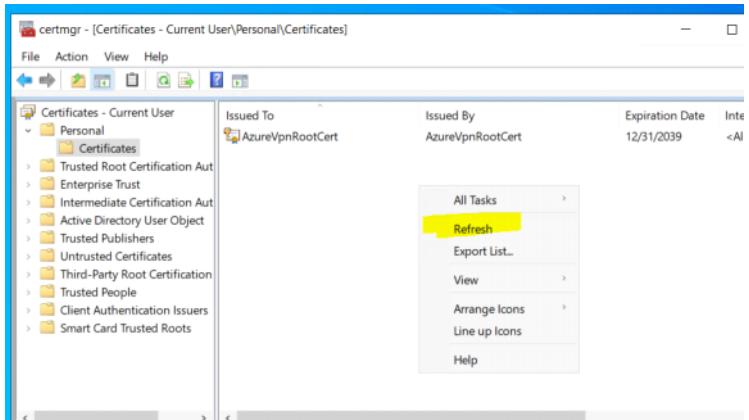


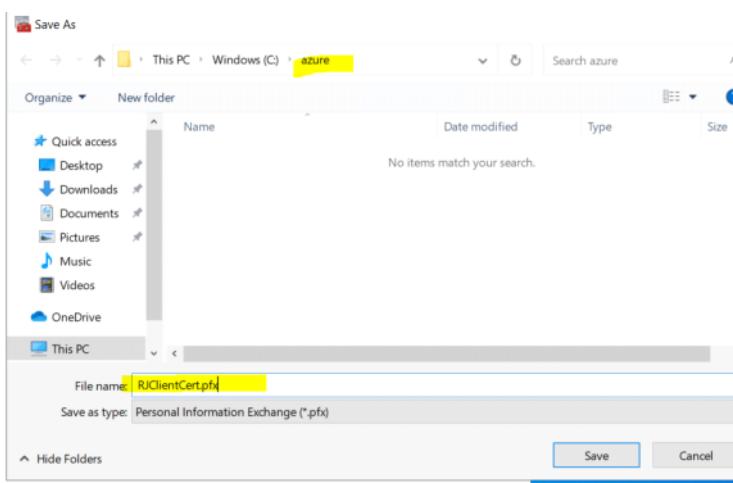
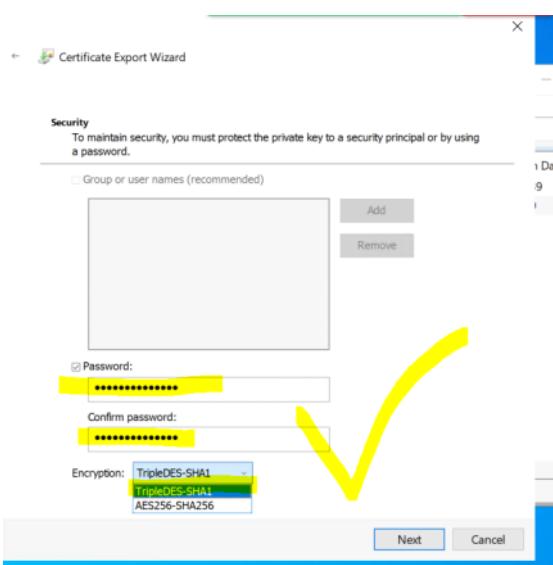
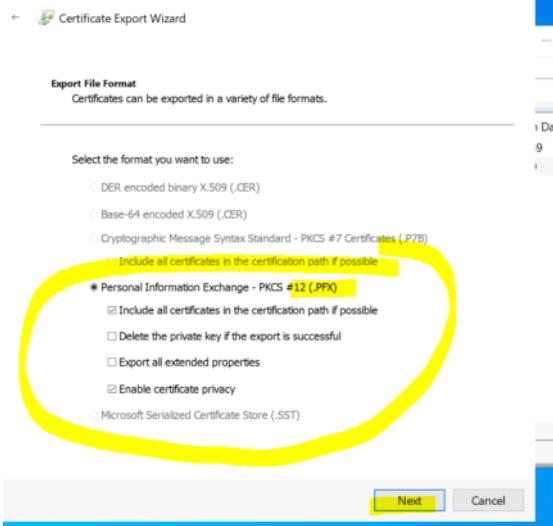
```
C:\azure>makecert -n "CN=RJAzureVPNClientCert" -pe -sky exchange -m 96 -ss My -in "AzureVpnRootCert" -is my -a sha1  
Succeeded
```

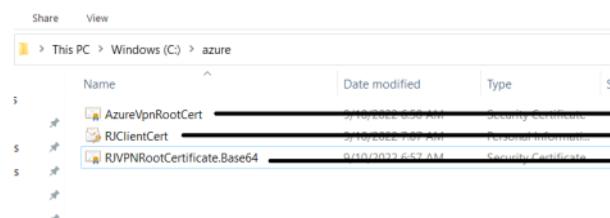
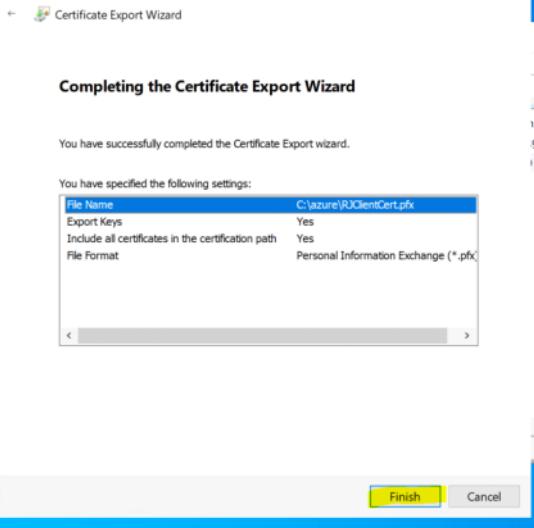
Go to cert manager and refresh. You will see the client certificate.

Right-click on your client certificate name and export it.

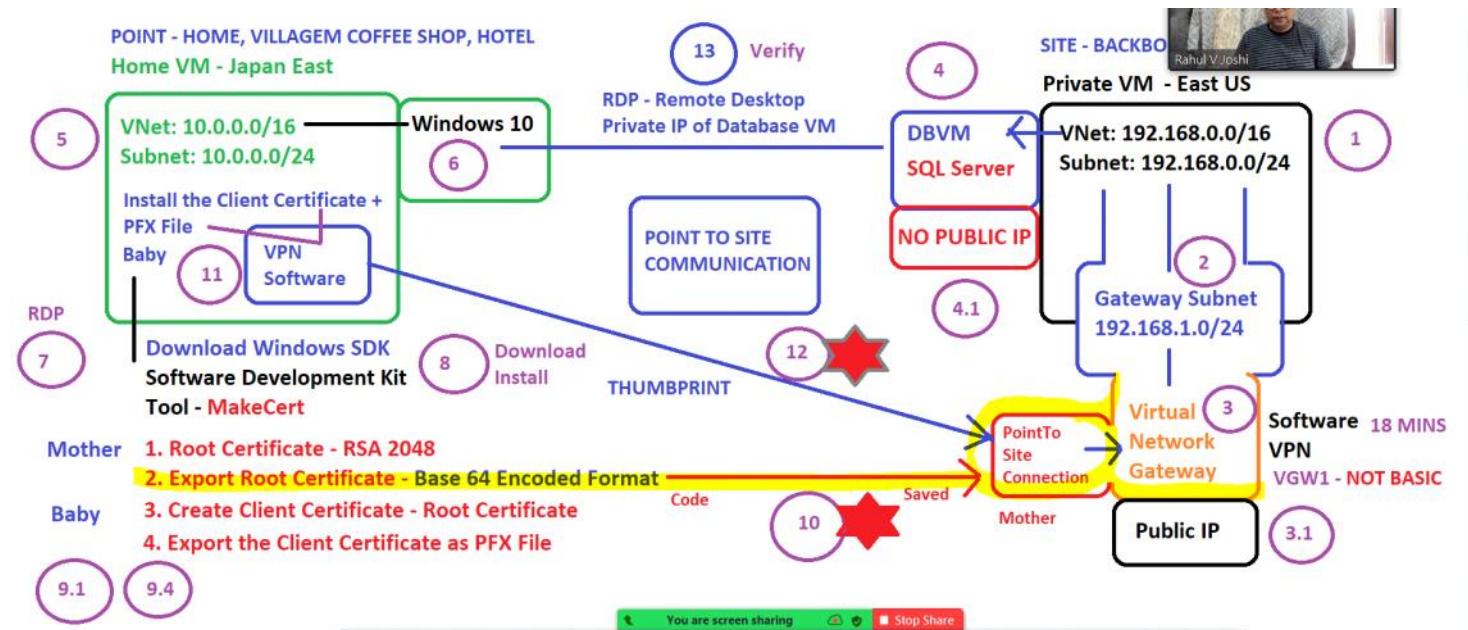
Export the private key as well. Also, the name will be RJClientCert.pfx after exporting it will be available in explorer as well.







Task: Most Important Task of the Entire Activity - Putting the Base64 Encoded Key into the VPN Gateway



```

RJVPNRootCertificate.Base64 - Notepad
File Edit Format View Help
-----BEGIN CERTIFICATE-----
MIIDCCCAFgAwIBAgIQGQ21mi12TIRj9cbWemdlbtAJBgUrDgMCHQUABsxGTAX
BgNVBAMTEFdXJ1VnBuUm9vdEN1cnQwHhcNMjIwOTEwMDY1MDMwWhcNMzkhMjMx
MjM1OTU5WjabNRkwfWYDVQDXeBenvyZvZwb1Jvb3RDZXJ0M1B1jANBgkqhkg
OwBAQEAFAACQ8AMTIBCgkCAQEAv1GEkoATBMF0/k01EyodASYPmisudrDdhn
IeeNim1KhAzCsgnsu1TkPtkhY41jgwArrlPyQ1Rq6Zu3f7q1nXHahk7hvKXD
518Mmx5JGGsR5ntEBSS4XTF3K20NCexzh3HuuzUmMPIi5Mak20ZwWYoSUSQmyzh
Qyib7emMM4f1iOM6LbpH9Etys1zeSdxr11+B1lMy8+2AdqcFkThuaIREhjVHN
LHSYgkWp9GmGBz0GrzgnQaqqYYpnVntA19qgs74x5x7hvH23h0c12pom2neGjow
j6ngyoD+jTyLPMPZdy3lC0OpFftxl5dSwmIDQvrP110Nj0SGlQ1DA0ABo1AwTjBm
QgNVHQERTBQg8Beifd0sT76auvioc2ghq20RwGzEZMBccGAUEAxMQXp1cmNW
CG55b29Q2v2y11QGD1M1i12TIRj9cbWemdlbtAJBgUrDgMCHQUAA41BAQBTu3tI
8dFLTMruyTFx11sdSLwgKEYjk//EB+d93GPi5ZMknVvavLd/EtumQmhEm7xd1
EMtx868Mi660je9485mb+0kNbtybHkevXB+fitQy/m7ayA9wE1GnxuTBezET
j5fcuXN3AzyabbTirAdqBvNgxEJhDoolXNNra9p5N1EP+Dds3BKFYlnIOuXkts
Bf+mHwe0dfpppkopwlHfno8ygOZM87fettG9uzD+2j/gai0+mkGHQrE80BClV
RroHQ7Rac0Lyw1ix7mr1qJmmhkajzfyFCGB0.v1BwgtDOPtZvU/y1GN5nyOX2
VVSTfw+3GUAcbl.fBF
-----END CERTIFICATE-----

```

COPY

More events in the activity log → Dismiss all ×

Deployment succeeded Deployment 'Microsoft.VirtualNetworkGateway-20220910111254' to resource group 'rg-pointosite-remove' was successful.

Go to resource Pin to dashboard

58 minutes ago

vpngatewayprivatevm | Virtual network gateway

Search (Ctrl+ /) Refresh Move Delete Copy to clipboard

Resource group (move) : rg-pointosite-remove
Location : East US
Subscription (move) : MSDN Platforms
Subscription ID : ee7bab70-0709-4f4f-9829-790225dc5be4

Tags (edit) Click here to add tags

Health check Perform a quick health check to detect possible gateway issues Go to Resource health

Show data for last 1 hour 6 hours 12 hours 1 day 7 days 30 da

Total tunnel ingress 1008

vpngatewayprivatevm | Point-to-site configuration

Virtual network gateway

Search (Ctrl+ /) Save Discard Delete Download VPN client

Point-to-site is not configured Configure now

View Activity log Access control (IAM)

Diagnose and solve problems

Logs Alerts Metrics

Home > vpngatewayprivatevm

vpngatewayprivatevm | Point-to-site configuration

Virtual network gateway

Search (Ctrl+ /) Save Discard Delete Download VPN client

Address pool * 172.20.20.0/24

Tunnel type OpenVPN (SSL)
IKEv2
IKEv2 and OpenVPN (SSL)
IKEv2 and SSTP (SSL)

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Settings Configuration Connections Point-to-site configuration Properties Locks

vpngatewayprivatevm | Point-to-site configuration

Virtual network gateway

Search (Ctrl+)

Save Discard Delete Download VPN client

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Configuration

Connections

Point-to-site configuration

Properties

Address pool *

172.20.20.0/24

Tunnel type

SSTP (SSL)

Authentication type

Azure certificate

Azure certificate

RADIUS authentication

Azure Active Directory



Microsoft Edge

RJVPNRootCertificate.Base64 - Notepad

File Edit Format View Help

-----BEGIN CERTIFICATE-----

MIIQDCCAFsgAwIBAgIQGD2IMii2TIRj9cbWemd1bTAJBgUrDgMCHOUAMBsG/TAXB...
BgNVBAMTEEF6dxJlVnBuUm9vdeNLcnQwdhCNnjIwOTEwMDY1MDNwWhcMzKxMjMx...
MjM1OTU5WjAbMRkwFwDVQQDEBBenVzVZwblJvb3RDZXJ0MIIBIjANBgkqhkiG...
9wBAQEFAAOCAQ8AMIIIBCgkCAQEAEuIGekoaT8Mu/ko3yoDASYPi6ud3rdBdhm...
ieeHmt1kHHAzLsgnSuiTKTPtKyATjgwArrwPy01rqGz13F7qInXHahk7hvKXD...
518MmX5JGGsR5ntB5s4XTf3K20N0tx2h34iuuzmPi15Ma20ZwNtSUSQmyzh...
cQyb7EmaHM4f10M6cLbpH9ETyS1zESdXr11+j1DMY8+ZADqCfkIhuaIRehjVHN...
LHYSgKhpsGmGBzOGFrznQaqqYpnVntA3gg574x5x7vhZ3he12pmzneGjow...
jengyo+1Ty1pMP2dyy3lCoOpftxidSwmIDqrP110kjDSG1QIDAQABoIAWTjBM...
BgNQHQERTBDgBeifEdst76auW1lOC2hg20RwGzE2MBCGA1UEAxMQQxp1cmW...
cg5Sb290Q2Vyd1IQD2IMii2TIRj9cbWemd1bTAJBgUrDgMCHOUAA4IBAQBTu3tT...
8dFLTwPruyTFVxW1sdSLWqKEYjX/7EB+d93GPiESZMknVvavLd/EtrumQmHEm7xd1...
EMtx868MT6G0je940y5mb+bjKNbtynhkeVXB+fitQvj/m7ay9wE16nxuTBzET...
j5fcuXN3azyabbT1rADqbYvnGxE1NDooLXNra9PSNLEP+dbd53BFY1nIOUxKTS...
nF...
Name

AzureVPN

Public certificate data

Revoked certificates



vpngatewayprivatevm | Point-to-site configuration

Virtual network gateway

Search (Ctrl+)

Save Discard Delete Download VPN client

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Configuration

Connections

Point-to-site configuration

Properties

Locks

Monitoring

Logs

Alerts

Metrics

BGP peers

Address pool *

172.20.20.0/24

Tunnel type

SSTP (SSL)

Authentication type

Azure certificate

Root certificates

Name

AzureVPN

Public certificate data

MIIQDCCAFsgAwIBAgIQGD2IMii2TIRj9cbWemd1bTAJBgUrDgMCH...

Revoked certificates

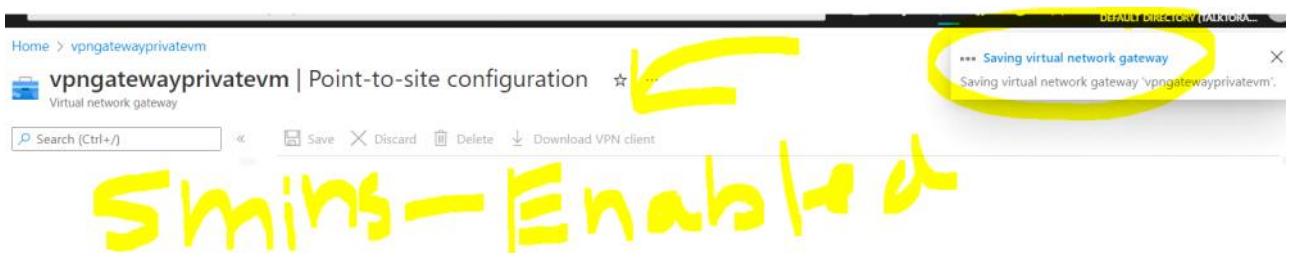
Name

Thumbprint

Additional routes to advertise



5 minutes



This VPN Client has the PFX and VPN Software - Installed on all the Computers which want to talk to the Private VM

vpngatewayprivatevm | Point-to-site configuration

Address pool * 172.20.20.0/24

Tunnel type

Notifications

- Saved virtual network gateway
- Deployment succeeded

Task: Download the VPN Client, Install the Client on the Windows 10 VM, Connect to the VPN and Connect to the Private IP of Private VM

It downloads a .zip file, Extract the Zip file

Name Date modified Type

- Generic 10-09-2022 12:55 File folder
- WindowsAmd64 10-09-2022 12:55 File folder
- WindowsX86 10-09-2022 12:55 File folder

Name Date modified Type

- WindowsAmd64 9/10/2022 7:26 AM File folder
- AzureVpnRootCert 9/10/2022 6:50 AM Security Certificate 1 KB
- RJClientCert 9/10/2022 7:07 AM Personal Information 4 KB
- RVPNRootCertificate.Base64 9/10/2022 6:57 AM Security Certificate 2 KB

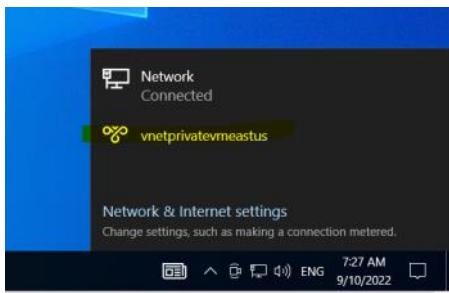
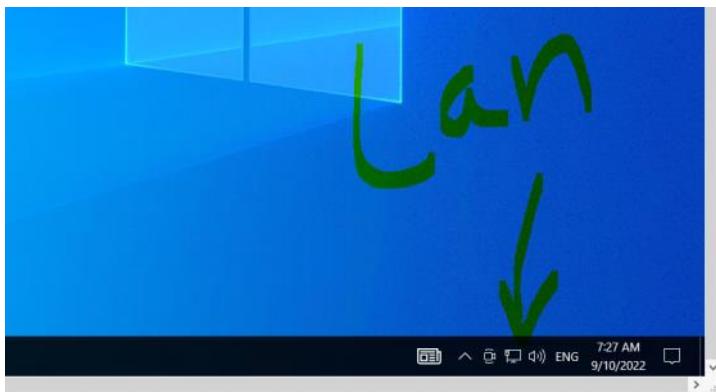
Name Date modified Type Size

- VpnClientSetupAmd64 9/10/2022 1:54 AM Application 196 KB

vnetprivatevmeastus

Do you wish to install a Vpn Client for vnetprivatevmeastus?

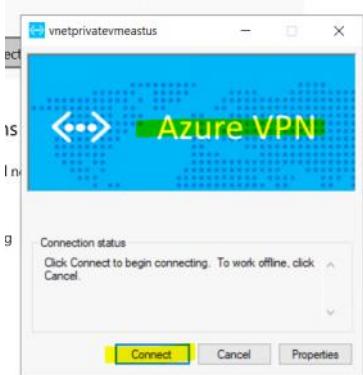
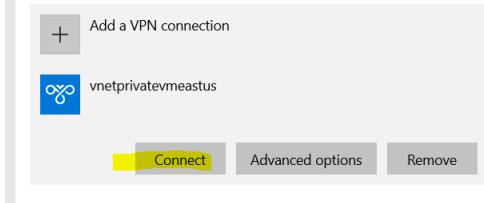
Yes No

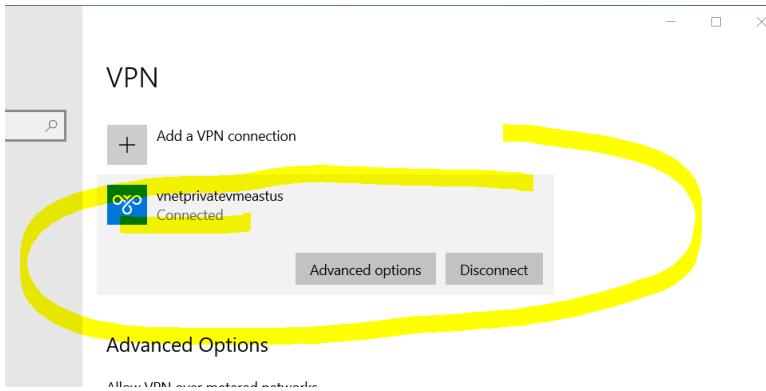


VPN

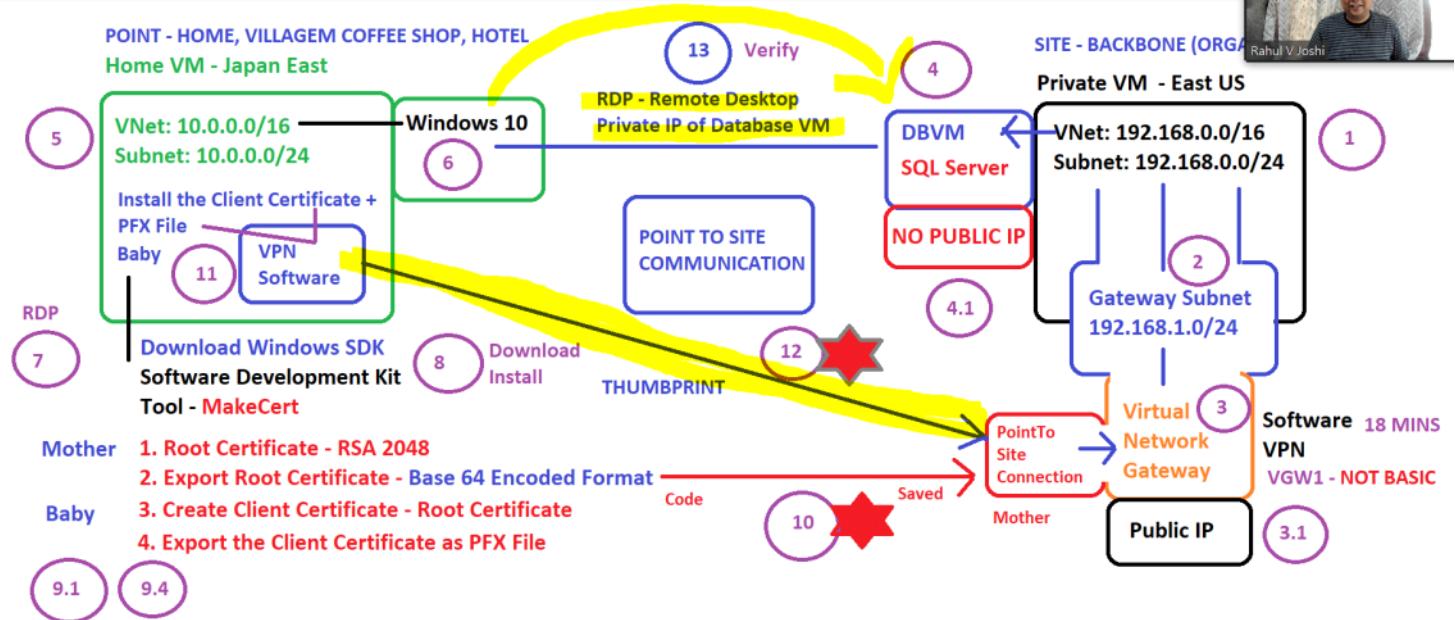


VPN





All your VDKI sites connected networks



Last Verification - Connect to the Private IP of Database VM

PrivateVM

Virtual machine

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center (preview)

Disks

Size

Microsoft Defender for Cloud

Advisor recommendations

Extensions + applications

Continuous delivery

Properties

Virtual machine

Computer name: PrivateVM

Health state: -

Operating system: Windows (Windows Server 2016 Datacenter)

Publisher: MicrosoftWindowsServer

Offer: WindowsServer

Plan: 2016-datacenter-gensecond

VM generation: V2

VM architecture: x64

Agent status: Ready

Agent version: 2.7.41491.1057

Networking

Public IP address: -

Public IP address (IPv6): -

Private IP address: 192.168.0.4

Private IP address (IPv6): -

Virtual network/subnet: vnetprivatevmeastus/DBSubnet

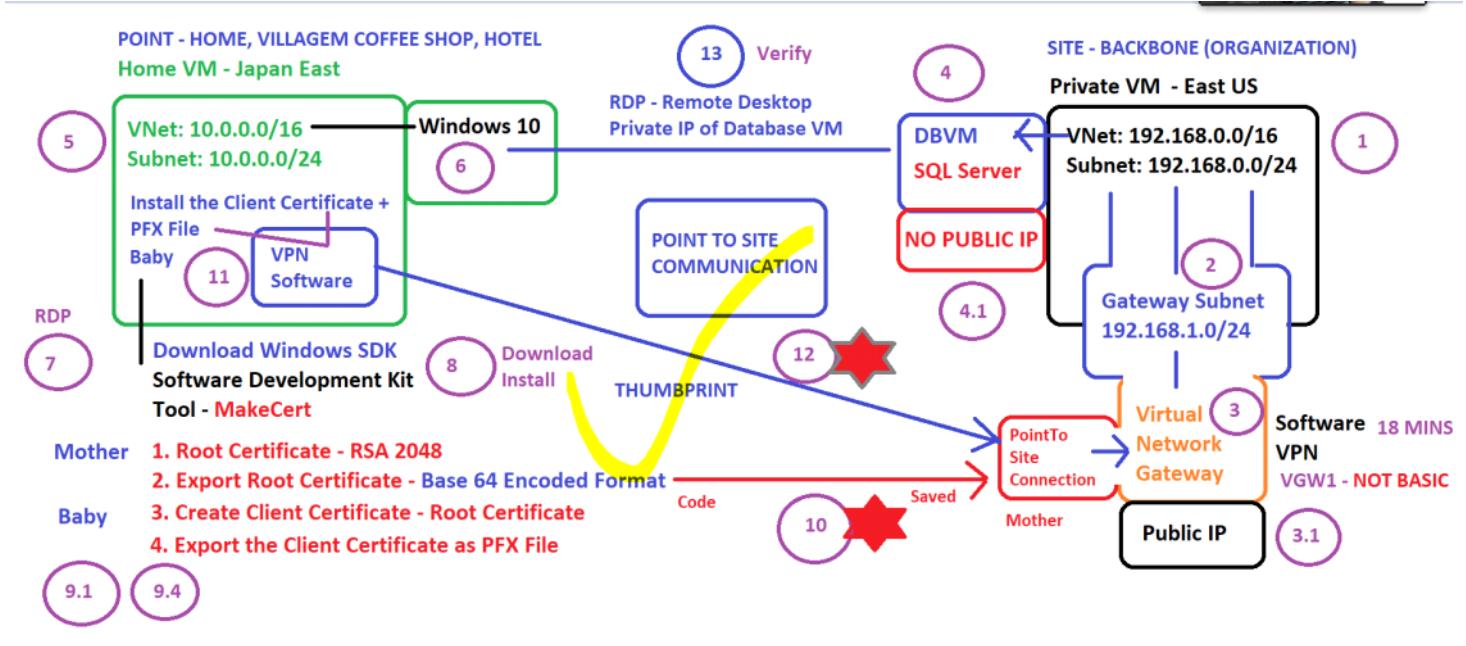
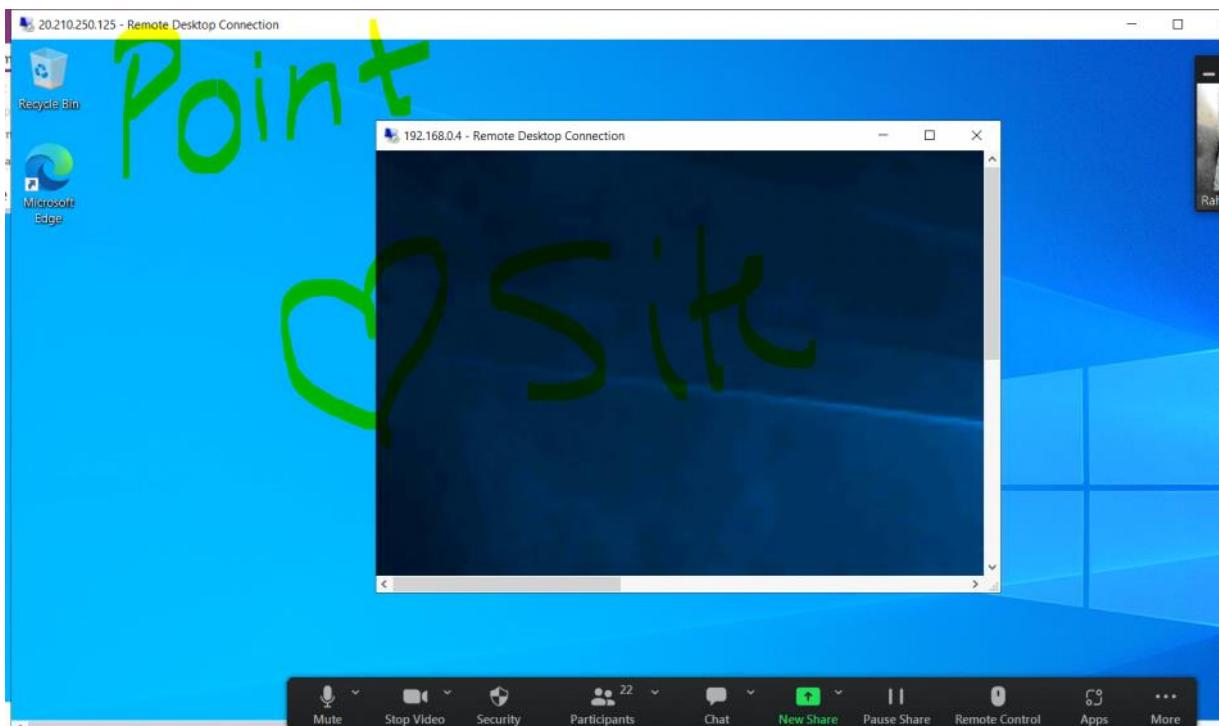
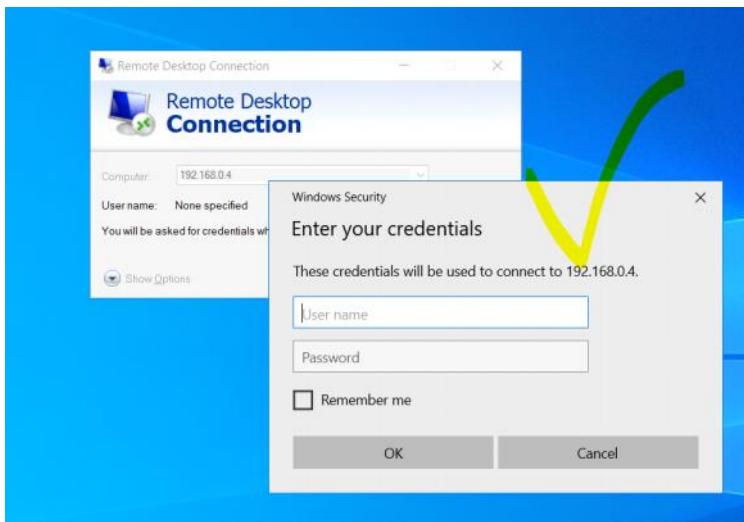
DNS name: Configure

Size

Standard B2ms

vCPUs: 2

RAM: 8 GiB



We Saw 3 Connectivity Strategies

1. Vnet To Vnet
2. Vnet Peering
3. Point To Site Communication

For Linux & Mac Connectivity (As Client)

<https://docs.microsoft.com/en-us/azure/vpn-gateway/point-to-site-vpn-client-cert-mac>

The screenshot shows the Azure Resource Groups blade. On the left, there's a sidebar with 'Home > Resource groups' and a search bar. Below it, a list of resource groups: 'NetworkWatcherRG' and 'rg-pointosite-remove'. The 'rg-pointosite-remove' group is selected. The main area shows the 'rg-pointosite-remove' resource group details. It includes sections for 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Resource visualizer', 'Events', 'Settings', 'Deployments', 'Security', and 'Policies'. Under 'Essentials', it shows 'Subscription (move)' as 'MSDN Platforms', 'Subscription ID' as 'ee7bab70-0709-4f4f-9829-790225dc5be4', 'Deployments' as '5 Succeeded', and 'Location' as 'East US'. There are also 'Tags (edit)' and 'Click here to add tags' buttons. The 'Resources' section lists 13 records, with a filter bar at the top. A large yellow checkmark is drawn over the top right corner of the blade.

Case Study:

The customer was well convinced with the way Point to Site was demonstrated. Security is a primary concern for the customer. Who connects to the Environment and from where does the person connect is an important factor to consider. Known entities are welcome, but un-known entities are restricted.

PORT is a very delicate subject, many hacking practices use PORT as one of weakness to intrude into the system. PORT has to be protected from unknown entities. The customer is clueless on how this can be achieved and wants guidance from the professionals on what best practices can be followed in protecting the PORTS that can be exposed.

Ports on Windows

<https://docs.microsoft.com/en-us/troubleshoot/windows-server/networking/service-overview-and-network-port-requirements>

HTTP SSL

The HTTP SSL system service enables IIS to perform SSL functions. SSL is an open standard for establishing an encrypted communications channel to help prevent the interception of extremely important information, such as credit card numbers. Although this service works on other Internet services, it is primarily used to enable encrypted electronic financial transactions on the World Wide Web (WWW). You can configure the ports for this service through the Internet Information Services (IIS) Manager snap-in.

System service name: **HTTPFilter**

Application protocol	Protocol	Ports
HTTPS	TCP	443

Terminal Services

Terminal Services provides a multi-session environment that enables client devices to access a virtual Windows desktop session and Windows-based programs that are running on the server. Terminal Services enables multiple users to be connected interactively to a computer.

System service name: **TermService**

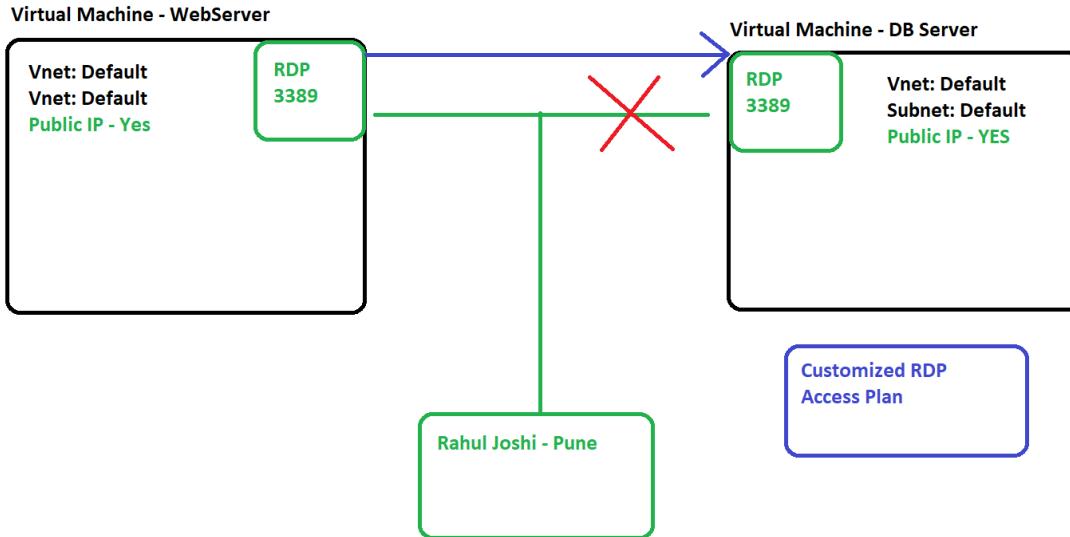
Application protocol	Protocol	Ports
Terminal Services	TCP	3389
Terminal Services	UDP	3389

Windows Server

Services - Configured & Run

SQL Server - Service ————— Listen on a PORT
Oracle - Service
FTP - Service
SFTP - Service
.
.
.

There are 2 Virtual Machine, the DB VM can accept RDP only from WebServer VM, if any VM or any environment apart from WebServer tries to connect to DB Server, the connection has to be rejected.



NSG - Network Security Group (Virtual Firewall)

<https://docs.microsoft.com/en-us/azure/virtual-network/network-security-groups-overview>

You can use an Azure network security group to filter network traffic between Azure resources in an Azure virtual network. A network security group contains [security rules](#) that [allow or deny inbound network traffic](#) to, or [outbound network traffic from](#), several types of Azure resources

The screenshot shows the AWS Documentation page for the Amazon VPC User Guide. The URL is docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html. The page title is "Amazon Virtual Private Cloud User Guide". The main content heading is "Control traffic to subnets using Network ACLs".

Create 2 VMs, 1st in Central US and 2nd in Japan East

The screenshot shows the Azure portal's "Virtual machines" blade. The top navigation bar includes "Virtual machines", "Create", "Switch to classic", "Reservations", and a search bar. Below the navigation is a filter bar with "Filter for any field...", "Subscription equals all", and "Type". The main table lists virtual machines with columns for "Name" and "Type".

Create a virtual machine ...

Subscription *

Resource group *

Instance details

Virtual machine name *

Region *

Availability options

Security type

Image *

VM architecture Arm64 x64
Arm64 is not supported with the selected image.

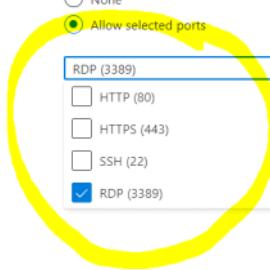
Run with Azure Spot discount

Size *

Public inbound ports * None Allow selected ports

Select inbound ports *

RDP (3389) HTTP (80) HTTPS (443) SSH (22) RDP (3389)



The above is NSG, by default Microsoft Exposes only 4 PORTS, but if you want add more ports, you can do it later once VM is created
We want to SQL Server Port - 1433

Allow selected ports

Select inbound ports *

⚠ This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.



Create a virtual machine ...

Basics Disks **Networking** Management Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.
[Learn more](#)

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network *

Subnet *

Public IP

NIC network security group None Basic Advanced



Create a virtual machine ...

Subscription * ⓘ MSDN Platforms

Resource group * ⓘ rg-nsg-remove
[Create new](#)

Instance details

Virtual machine name * ⓘ DBServer01

Region * ⓘ (Asia Pacific) Japan East

Availability options ⓘ No infrastructure redundancy required

Security type ⓘ Standard

Image * ⓘ Windows Server 2016 Datacenter - Gen2
[See all images](#) | [Configure VM generation](#)

VM architecture ⓘ Arm64 x64
⚠️ Arm64 is not supported with the selected image.

Run with Azure Spot discount

Size * ⓘ Standard_B2ms - 2 vcpus, 8 GiB memory (₹5,732.64/month)

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.
[Learn more](#) ⓘ

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network * ⓘ (new) rgnsremovenvnet344
[Create new](#)

Subnet * ⓘ (new) default (10.0.0.0/24)

Public IP ⓘ (new) DBServer01-ip
[Create new](#)

NIC network security group ⓘ None Basic

Create a virtual machine ...

Validation passed

Basics Disks Networking Management Advanced Tags Review + create

⚠️ Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

PRODUCT DETAILS

1 X Standard B2ms
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply ⓘ
7.8529 INR/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

⚠️ You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go ...

[Create](#)

[< Previous](#) [Next >](#) [Download a template for automation](#)

NSG - Exam Point of View & Interviews

Priority

A number between 100 and 4096. Rules are processed in priority order, with lower numbers processed before higher numbers, because

lower numbers have higher priority

Once traffic matches a rule, processing stops

40.50.60.70 RDP 110 - ALLOW

40.50.60.70 RDP 280 - DENY

Source or destination

Any, or an individual IP address, classless inter-domain routing (CIDR) block (10.0.0.0/24, for example), service tag, or application security group.

If you specify an address for an Azure resource, specify the private IP address assigned to the resource. Network security groups are processed after Azure translates a public IP address to a private IP address for inbound traffic, and before Azure translates a private IP address to a public IP address for outbound traffic.

Protocol

TCP, UDP, ICMP, ESP, AH, or Any. The ESP and AH protocols are not currently available via the Azure Portal but can be used via ARM templates.

Action

Allow or deny

Default security rules

Azure creates the following default rules in each network security group that you create:

Inbound

AllowVNetInBound

Priority	Source	Source ports	Destination	Destination ports	Protocol	Access
65000	VirtualNetwork	0-65535	VirtualNetwork	0-65535	Any	Allow

AllowAzureLoadBalancerInBound

Priority	Source	Source ports	Destination	Destination ports	Protocol	Access
65001	AzureLoadBalancer	0-65535	0.0.0.0/0	0-65535	Any	Allow

DenyAllInbound

Priority	Source	Source ports	Destination	Destination ports	Protocol	Access
65500	0.0.0.0/0	0-65535	0.0.0.0/0	0-65535	Any	Deny



Outbound

AllowVnetOutBound

Priority	Source	Source ports	Destination	Destination ports	Protocol	Access
65000	VirtualNetwork	0-65535	VirtualNetwork	0-65535	Any	Allow



AllowInternetOutBound

Priority	Source	Source ports	Destination	Destination ports	Protocol	Access
65001	0.0.0.0/0	0-65535	Internet	0-65535	Any	Allow

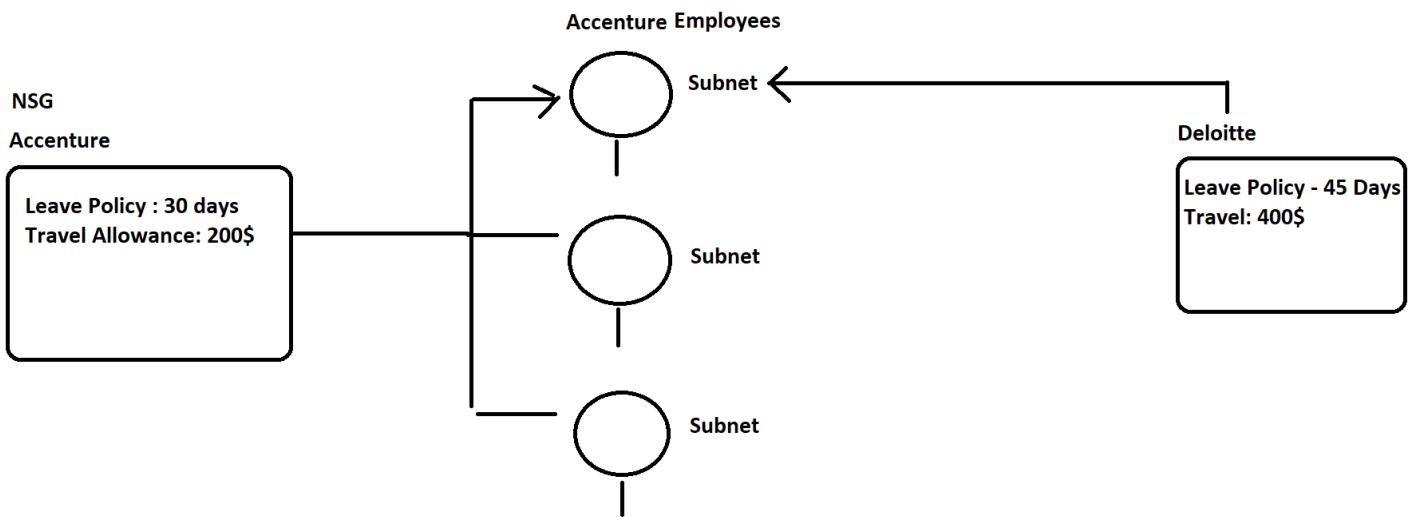
DenyAllOutBound

Priority	Source	Source ports	Destination	Destination ports	Protocol	Access
65500	0.0.0.0/0	0-65535	0.0.0.0/0	0-65535	Any	Deny

NSG Can be attached to the Subnet / Virtual Network

EXAM QUESTION

One NSG can be associated with multiple Subnets, but one Subnet can only listen to 1 NSG



Virtual machines

Name	Type	Subscription	Resource group	Location
DBServer01	Virtual machine	MSDN Platforms	rg-nsg-remove	Japan East
WebServer01	Virtual machine	MSDN Platforms	rg-nsg-remove	Central US

*Untitled - Notepad
File Edit Format View Help
Web Server
Public IP address 40.122.196.71
Private IP address 10.0.0.4

DBServer01

Virtual machine

Search (Ctrl+ /)

Connect Start Restart Stop Capture D

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Settings Networking Connect Windows Admin Center (preview) Disks

Essentials

Resource group (move) : rg-nsg-remove
Status : Running
Location : Japan East
Subscription (move) : MSDN Platforms
Subscription ID : ee7bab70-0709-4f4f-9829-790225dc5be4
Tags (edit) : Click here to add tags

Properties Monitoring Capabilities (8) Recommendations

Virtual machine
Computer name DBServer01

Go Always to that Resource, which you want to protect

DBServer01 | Networking

Virtual machine

Search (Ctrl+ /) Attach network interface Detach network interface Feedback

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Settings Networking Connect Windows Admin Center (preview) Disks Size Microsoft Defender for Cloud Advisor recommendations

IP configuration ipconfig1 (Primary)

Network Interface: dbserver01787 Effective security rules Troubleshoot VM connection issues Virtual network/subnet: rgnsgrmovevnet344/default NIC Public IP: 52.253.103.10 NIC Private IP: 10.0.0.4 Topology Accelerated networking: Disabled

Inbound port rules Outbound port rules Application security groups Load balancing

Network security group DBServer01-nsg (attached to network interface: dbserver01787) Impacts 0 subnets, 1 network interfaces

Priority	Name	Port	Protocol	Source	Destination	Action	...
300	RDP	3389	TCP	Any	Any	Allow	...
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow	...
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow	...
65500	DenyAllInBound	Any	Any	Any	Any	Deny	...

Add inbound port rule

RDP DBServer01-nsg

Source Any Any

IP Addresses My IP address Service Tag Application security group RDP

Destination port ranges 3389

RDP DBServer01-nsg

Source IP Addresses/CIDR ranges 10.0.0.4

Source port ranges *

Destination Any

Service RDP

Destination port ranges 3389

Protocol Anv

Action

Rules are processed in priority order; the lower the number, the higher the priority. We recommend leaving gaps between rules: 100, 200, 300, etc - so that it's easier to add new rules without having to edit existing rules.

Priority *	Name	Description
300	RDP	
Any		
Any		
Any		

DBServer01 | Networking

Virtual machine

Search

Attach network interface Detach network interface Feedback

dbserver01787

IP configuration ipconfig1 (Primary)

Network Interface: dbserver01787 Effective security rules Troubleshoot VM connection issues Topology

Virtual network/subnet: rgnsgrmovevnet344/default NIC Public IP: 52.253.103.10 NIC Private IP: 10.0.0.4 Accelerated networking: Disabled

Inbound port rules Outbound port rules Application security groups Load balancing

Network security group DBServer01-nsg (attached to network interface: dbserver01787)
Impacts 0 subnets, 1 network interfaces

Priority	Name	Port	Protocol	Source	Destination	Action
300	RDP	3389	TCP	10.0.0.4	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Add inbound port rule

Test, We will first Connect to the Public from local laptop

DBServer01

Virtual machine

Search

Connect Start Restart Stop Capture Delete Refresh Open in mobile CLI / PS

Overview

Status: Running Location: Japan East Subscription: MSDN Platforms Subscription ID: ee7bab70-0709-4f4f-9829-790225dc5be4 Tags (edit): Click here to add tags

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name	DBServer01
Health state	-
Operating system	Windows (Windows Server 2016 Datacenter)
Publisher	MicrosoftWindowsServer
Offer	WindowsServer

Networking

Public IP address	52.253.103.10
Public IP address (IPv6)	-
Private IP address	10.0.0.4
Private IP address (IPv6)	-
Virtual network/subnet	rgnsgrmovevnet344/default

Remote Desktop Connection

Computer: 52.253.103.10

Username: None specified

You will be asked for credentials when you connect

Show Options Connect Help

Networking

Public IP address	52.253.103.10
Public IP address (IPv6)	-
Private IP address	10.0.0.4

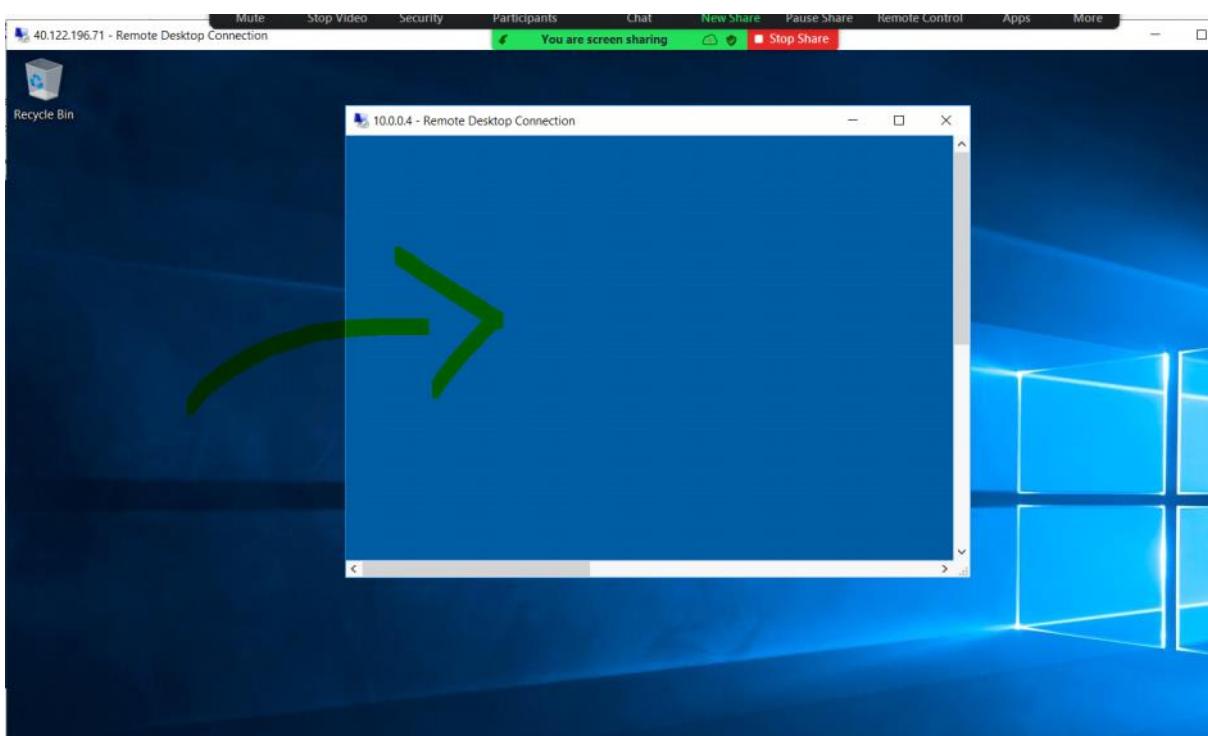
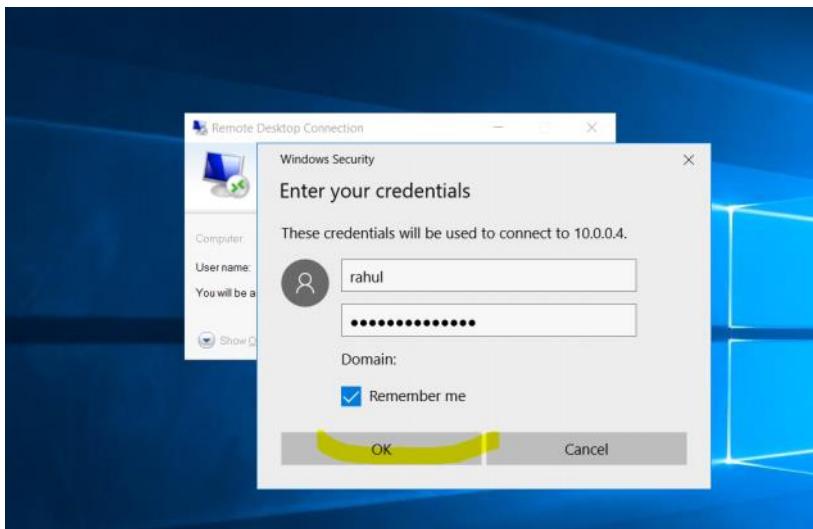


Now, we will connect to the WebServer and then from there we will do RDP to DB Server, Private IP

The image consists of two main parts. The top part is a screenshot of the Azure portal. On the left, the 'WebServer01' virtual machine is selected. In the center, the 'Networking' tab is open, showing network settings. Key details include:

- Public IP address: 40.122.196.71
- DNS name: rg-nsg-remove-vnet/default
- Private IP address (IPv6): -
- Private IP address (IPV4): 10.0.0.4
- Virtual network/subnet: rg-nsg-remove-vnet/default
- DNS name: Configure

The bottom part is a screenshot of a Windows desktop. A green arrow points from the left side of the screen to the 'Computer:' dropdown in a 'Remote Desktop Connection' dialog box. The dialog box shows '10.0.0.4' as the target IP. The desktop background is blue, and there's a yellow 'DB' watermark.



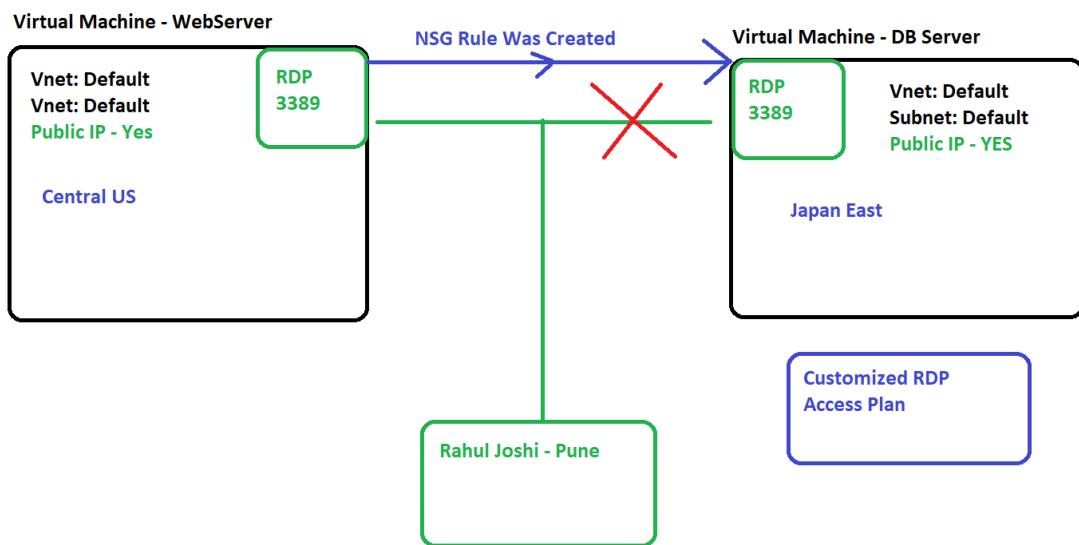
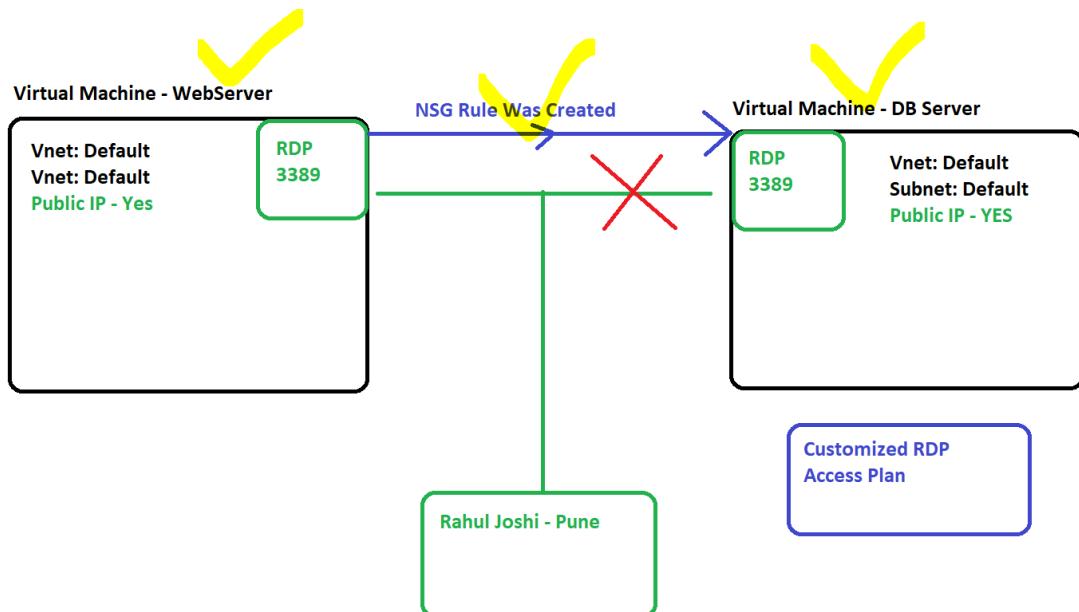
Virtual machines ⚙ ...

Default Directory (talktorahuljoshioutlook.onmicrosoft.com)

+ Create ⚙ Switch to classic ⚙ Reservations ⚙ Manage view ⚙ Refresh ⚙ Export to CSV ⚙ Open query ⚙ Assign tags ⚙ Start ⚙ Restart ⚙ Stop

Filter for any field... Subscription equals all Type equals all Resource group equals all Location equals all Add filter No group

Name ↑↓	Type ↑↓	Subscription ↑↓	Resource group ↑↓	Location ↑↓	Status ↑↓	Operating system
<input type="checkbox"/> DBServer01	Virtual machine	MSDN Platforms	rg-nsg-remove	Japan East	Running	Windows
<input type="checkbox"/> WebServer01	Virtual machine	MSDN Platforms	rg-nsg-remove	Central US	Running	Windows



End of Day 10