

# Connecting Internet Workloads Using Vnet Peering and Assigning a Custom Role for Operating These Workloads

Course-end Project 1

## DESCRIPTION

To connect Internet workloads using Vnet peering and assign a custom role for operating these workloads

**Description:** The Rand Enterprises Corporation is evaluating Azure as a deployment platform. To help the company with its evaluation, you need to create virtual networks in the region specified by Rand Enterprises Corporation. You have to create test virtual machines in two virtual networks, establish connectivity between the two networks via VNet peering, and ensure connectivity is established properly.

To test the platform, Rand Enterprises Corporation wants to onboard an employee on the company's default Azure Active Directory and assign a Custom RBAC role, under which they will be able to read the network and storage along with the VM. Under this custom RBAC, the employee should also be given permission to start and restart the VM. You have to onboard the employee under the default Azure AD and create a custom RBAC for the role of computer operator for this employee.

As a security measure, you need to ensure that the onboarded user can only access the resources mentioned in the custom role and adhere to the principle of least privilege.

**Tools required:** Azure account with administrator access

**Prerequisites:** None

## Expected Deliverables:

- Identify the networks
- Workload deployed to these networks
- Establishing the connectivity between these networks
- Onboard a user
- Create and assign a custom role to the user.

Login in to Azure Portal

# Step 1: Create Vnet 1

The screenshot shows the 'Create virtual network' page in the Microsoft Azure portal. The breadcrumb trail is 'Home > Create a resource > Marketplace > Virtual network >'. The page title is 'Create virtual network'. The 'Basics' tab is selected, with other tabs being 'Security', 'IP addresses', 'Tags', and 'Review + create'. A brief description of Azure Virtual Networks (VNet) is provided. The 'Project details' section requires selecting a 'Subscription' (Simplilearn HOL 39) and a 'Resource group' ((New) rg-project1-Nikhil). The 'Instance details' section requires a 'Virtual network name' (vnet-1) and a 'Region' ((US) East US). At the bottom, there are 'Previous', 'Next', and 'Review + create' buttons, along with a 'Give feedback' link.

Microsoft Azure

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odl\_user\_944585@simpl...  
ABC.COM (SAMPLILEARNHOL39...

Home > Create a resource > Marketplace > Virtual network >

## Create virtual network

Basics Security IP addresses Tags Review + create

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.](#)

**Project details**

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

Subscription \* Simplilearn HOL 39

Resource group \* (New) rg-project1-Nikhil [Create new](#)

**Instance details**

Virtual network name vnet-1

Region \* (US) East US [Deploy to an edge zone](#)

Previous Next Review + create [Give feedback](#)

## Adding IP address space

The screenshot shows the 'Add an IP address space' dialog box within the 'Create virtual network' page. The dialog explains that an address space consists of one or more non-overlapping address ranges. It offers two options for 'Address space type': IPv4 (selected) and IPv6. For IPv4, the 'Starting address' is set to 10.10.0.0 and the 'Address space size' is /16 (65536 addresses). The resulting 'IP address space' is 10.10.0.0 - 10.10.255.255 (65536 addresses). At the bottom, there are 'Add' and 'Cancel' buttons. The background shows the 'IP addresses' tab of the 'Create virtual network' page, which includes a table with one entry: 10.0.0.0/16.

Microsoft Azure

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Home > Create a resource > Marketplace > Virtual network >

## Create virtual network

Basics Security IP addresses Tags Review + create

Configure your virtual network address space with the IPv4 and IPv6 addresses and subnets you need. [Learn more](#)

Define the address space of your virtual network with one or more IPv4 or IPv6 address ranges. Create subnets to divide the virtual network address space into smaller ranges for use by your applications. When you deploy resources into a subnet, you assign the resource an IP address from the subnet. [Learn more](#)

Add an IP address space

| Address space |
|---------------|
| 10.0.0.0/16   |

[Add a new address space](#)

**Add an IP address space**

The address space for a virtual network has one or more non-overlapping address ranges. It is recommended to use private (RFC 1918), shared (RFC 6598), or local (RFC 4193) address ranges. [Learn more.](#)

Address space type ☒ IPv4 ☐ IPv6

Starting address \* 10.10.0.0

Address space size \* /16 (65536 addresses)

IP address space 10.10.0.0 - 10.10.255.255 (65536 addresses)

Previous Next Review + create Add Cancel

A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway.

## Adding a subnet:

Microsoft Azure

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ABC.COM (SIMPLILEARNHOL39...

Home > Create a resource > Marketplace > Virtual network >

Create virtual network ...

Basics Security IP addresses Tags Review + create

10.0.0.0/16  
10.0.0.0 - 10.0.255.255 (65536 addresses)

| Subnets | IP address range      | Size                | NAT gateway |
|---------|-----------------------|---------------------|-------------|
| default | 10.0.0.0 - 10.0.0.255 | /24 (256 addresses) | -           |

10.10.0.0/16  
10.10.0.0 - 10.10.255.255 (65536 addresses)

| Subnets | IP address range | Size | NAT gateway |
|---------|------------------|------|-------------|
|---------|------------------|------|-------------|

A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway.

Previous

Next

Review + create

Add a subnet

Select an address space and configure your subnet. You can customize a default subnet or select from subnet templates if you plan to add select services later. [Learn more](#)

IP address space

10.10.0.0/16

10.10.0.0 - 10.10.255.255 (65536 addresses)

Subnet details

Subnet template

Default

Name \*

web-subnet

Starting address \*

10.10.0.0

Subnet size

/24 (256 addresses)

IP address space

10.10.0.0 - 10.10.0.255 (256 addresses)

Security

Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. [Learn more](#)

NAT gateway

None

[Create new](#)

Network security group

None

[Create new](#)

Route table

None

Add

Cancel

## Review &amp; Create: Vnet 1:

Microsoft Azure

Search resources, services, and docs (G+)

odl\_user\_944585@simpl...  
ABC.COM (SIMPLILEARNHOL39...

Home > Create a resource > Marketplace > Virtual network >

Create virtual network ...

Basics Security IP addresses Tags Review + create

View automation template

Basics

|                |                    |
|----------------|--------------------|
| Subscription   | Simplelearn HOL 39 |
| Resource Group | rg-project1-Nikhil |
| Name           | vnet-1             |
| Region         | East US            |

Security

|                               |          |
|-------------------------------|----------|
| Azure Bastion                 | Disabled |
| Azure Firewall                | Disabled |
| Azure DDoS Network Protection | Disabled |

IP addresses

|               |   |
|---------------|---|
| Address space | 10.0.0.0/16 (65536 addresses)             |
| Address space | 10.10.0.0/16 (65536 addresses)            |
| Subnet        | web-subnet (10.10.0.0/24) (256 addresses) |

Tags

Previous

Next

Create

[Give feedback](#)

## Deployment Status of the Vnet 1:

Microsoft Azure

Search resources, services, and docs (G+)

odl\_user\_944585@simpl...  
ABC.COM (SIMPLILEARNHOL39...

Home >

vnet-1 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name : vnet-1

Subscription : Simplilearn HOL 39

Resource group : rg-project1-Nikhil

Start time : 5/13/2023, 5:53:33 PM

Correlation ID : 1dca9a39-882a-4f4f-adbb-db36bd80a511

> Deployment details

< Next steps

Go to resource

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https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/template/id/%2Fsubscriptions%2F882a8d1b-7505-4efb-9de6-99523bb959bd%2FresourceGroups%2Frg-project1-Nikhil%2Fproviders%2FMicrosoft.Resources%2Fdeployments%2Fvnet-1/packageId/Microsoft...

## Creating Vnet 2:

Microsoft Azure

Search resources, services, and docs (G+)

odl\_user\_944585@simpl...  
ABC.COM (SIMPLILEARNHOL39...

Home > Create a resource > Marketplace > Virtual network >

Create virtual network

Basics

Security

IP addresses

Tags

Review + create

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.](#)

Project details

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

Subscription \*

Simplilearn HOL 39

Resource group \*

rg-project1-Nikhil

[Create new](#)

Instance details

Virtual network name

vnet-2

Region \*

(US) East US

[Deploy to an edge zone](#)

Previous

Next







Review + create

[Give feedback](#)

## Adding Address Space for the Vnet 2:

Microsoft Azure

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Home > Create a resource > Marketplace > Virtual network >

Create virtual network

Basics Security IP addresses Tags Review + create

Configure your virtual network address space with the IPv4 and IPv6 addresses and subnets you need. [Learn more](#)

Define the address space of your virtual network with one or more IPv4 or IPv6 address ranges. Create subnets to divide the virtual network address space into smaller ranges for use by your applications. When you deploy resources into a virtual network, you assign the resource an IP address from the subnet. [Learn more](#)

Add an IP address space

10.0.0.0/16

10.0.0.0 - 10.0.255.255 (65536 addresses)

| Subnets | IP address range | Size | NAT gateway |
|---------|------------------|------|-------------|
|         |                  |      |             |

A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway.

Previous

Next

Review + create

Add an IP address space

The address space for a virtual network has one or more non-overlapping address ranges. It is recommended to use private (RFC 1918), shared (RFC 6598), or local (RFC 4193) address ranges. [Learn more.](#)

Address space type 

IPv4

IPv6

Starting address \* 10.20.0.0

Address space size \* /16 (65536 addresses)

IP address space 10.20.0.0 - 10.20.255.255 (65536 addresses)







Add

Cancel

## Adding Subnet 2 to the Vnet-2:

Microsoft Azure

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odl\_user\_944585@simpl...  
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Home > Create a resource > Marketplace > Virtual network >

Create virtual network

Basics Security IP addresses Tags Review + create

Add an IP address space

10.0.0.0/16

10.0.0.0 - 10.0.255.255 (65536 addresses)

| Subnets | IP address range | Size | NAT gateway |
|---------|------------------|------|-------------|
|         |                  |      |             |

A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway.

Previous

Next

Review + create

Edit subnet

Select an address space and configure your subnet. You can customize a default subnet or select from subnet templates if you plan to add select services later. [Learn more](#)

IP address space 10.20.0.0/16  
10.20.0.0 - 10.20.255.255 (65536 addresses)

Subnet details

Subnet template Default

Name \* web-subnet-2

Starting address \* 10.20.0.0

Subnet size /24 (256 addresses)

IP address space 10.20.0.0 - 10.20.0.255 (256 addresses)

Security

Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. [Learn more](#)

NAT gateway None  
[Create new](#)

Network security group None  
[Create new](#)

Route table None

Save

Cancel

## Vnet2 status:

**Microsoft Azure** Search resources, services, and docs (G+)

Home > **vnet-2** | Overview Deployment

Search << Delete Cancel Redeploy Download Refresh

**✓ Your deployment is complete**

Deployment name : vnet-2  
Subscription : Simplilearn HOL 39  
Resource group : rg-project1-Nikhil

Start time : 5/13/2023, 6:00:56 PM  
Correlation ID : 7a1ee921-ffda-4ad5-bb9e-6013f24a8cd8

> Deployment details  
▼ Next steps  
[Go to resource](#)

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## Step 2: Create Two VMs inside each of the Vnets:

Deploying VM1 inside the Vnet1 and inside the subnet1.

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Home > Create a resource >

### Create a virtual machine

**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](#)

**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.

Run with Azure Spot discount ☐

**Microsoft Azure** Search resources, services, and docs (G+)

Home > Create a resource >

### Create a virtual machine

Size \*  [See all sizes](#)

Item(s) availability based on policy assignment(s) for the selected scope. azure8670-944585-PolicyDefinition (Policy details)

**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.

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

The disk was selected to be Standard HDD, below are the networking details:

Microsoft Azure

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ABC.COM (SIMPLEARNHOL39...

[Home](#) > [Create a resource](#) >

## Create a virtual machine

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Monitoring](#) [Advanced](#) [Iags](#) [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 \*

vnet-1  
[Create new](#)

Subnet \*

web-subnet (10.10.0.0/24)  
[Manage subnet configuration](#)

Public IP

(new) vm1-ip  
[Create new](#)

NIC network security group

☐ None  
☒ Basic  
☐ Advanced

Public inbound ports \*

☐ None  
☒ Allow selected ports

Select inbound ports \*

RDP (3389)

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

[Review + create](#)

[< Previous](#)

[Next : Management >](#)

[Give feedback](#)

Validation passed, Deployment status:

Microsoft Azure | Search resources, services, and docs (G+)

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20230513180355 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

**Your deployment is complete**

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 5/13/2023, 6:11:52 PM  
Subscription: [Simplilearn HOL 39](#) Correlation ID: a888d8d1-b616-4cb4-987a-0ee86815b531  
Resource group: [rg-project1-Nikhil](#)

Deployment details

Next steps

Setup auto-shutdown Recommended

Monitor VM health, performance and network dependencies Recommended

Run a script inside the virtual machine Recommended

[Go to resource](#) [Create another VM](#)

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## Creating VM2:

VM2 was created in the vnet2 and subnet 2 with similar specifications to the VM1.

Microsoft Azure | Search resources, services, and docs (G+)

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20230513181543 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

**Your deployment is complete**

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 5/13/2023, 6:20:08 PM  
Subscription: [Simplilearn HOL 39](#) Correlation ID: 3189e555-f997-4c25-ab38-5af0d2f2d46e  
Resource group: [rg-project1-Nikhil](#)

Deployment details

Next steps

Setup auto-shutdown Recommended

Monitor VM health, performance and network dependencies Recommended

Run a script inside the virtual machine Recommended

[Go to resource](#) [Create another VM](#)

Give feedback

[Tell us about your experience with deployment](#)

**Deployment succeeded**  
Deployment 'CreateVm-MicrosoftWindowsServer-201-20230513181543' to resource group 'rg-project1-Nikhil' was successful.  
[Go to resource](#) [Pin to dashboard](#)

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Checking the Default behaviour of the two VMs.

Accessing the Vm1 using RDP protocol.

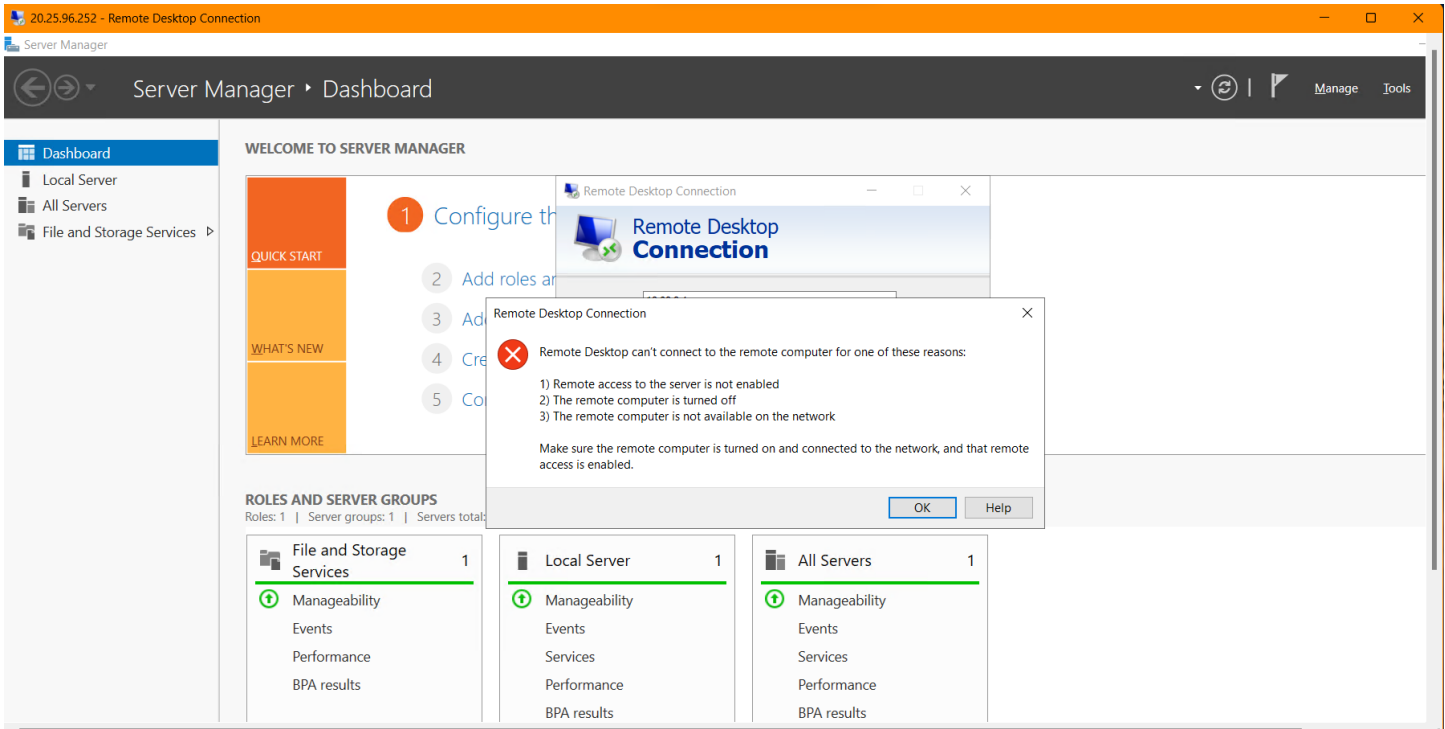
Since both the VMs are in different VNets, there should not be any communication between the two over private IPs.

Copying the Private IP of the VM2:

The screenshot shows the Azure portal interface for a virtual machine named 'vm2934'. The left sidebar contains navigation options like Overview, Activity log, Access control (IAM), Tags, and Settings. The 'Networking' section is selected, showing the IP configuration for 'ipconfig1 (Primary)'. Below this, the network interface 'vm2934' is detailed, including its public and private IP addresses. A table of inbound port rules is displayed, with the RDP rule (Priority 300, Port 3389) marked with a warning icon. The table also lists rules for VNet, Azure Load Balancer, and DenyAll.

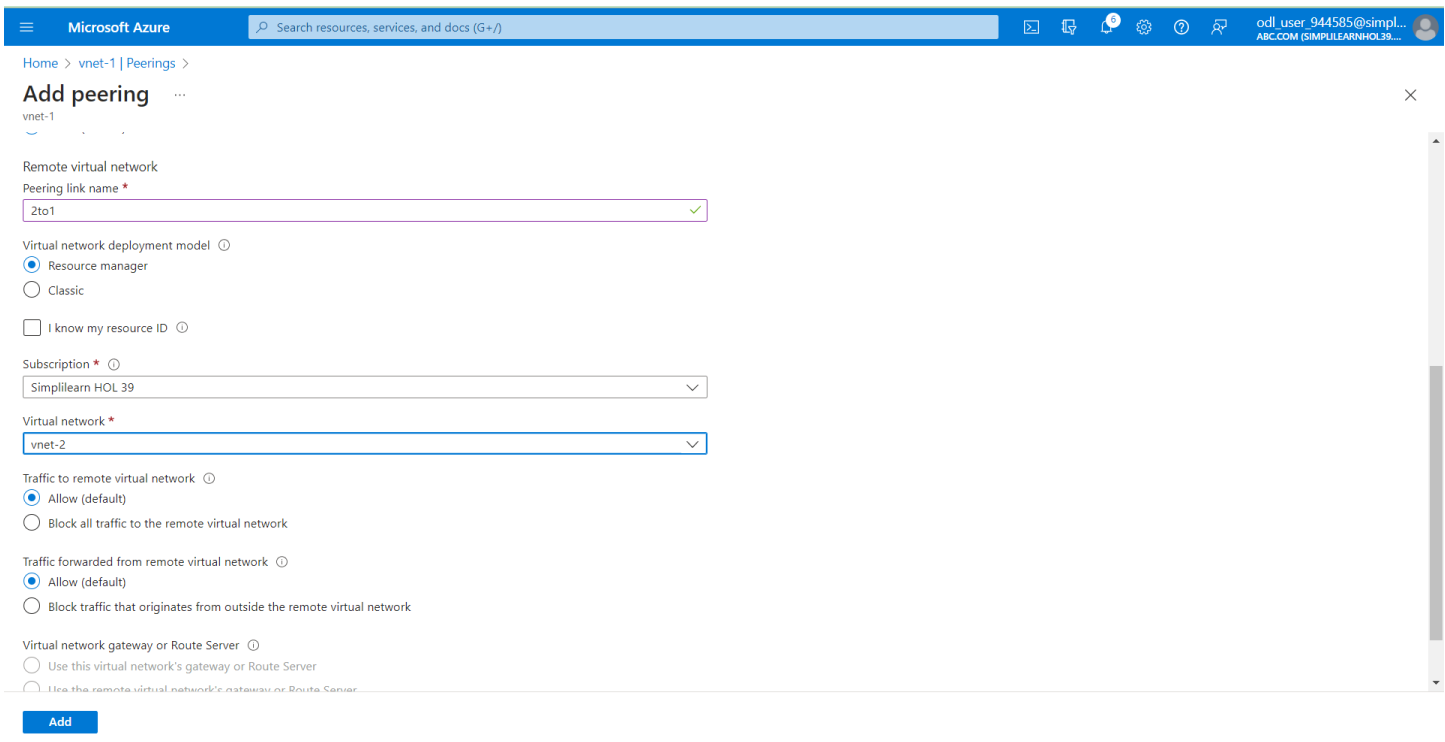
| Priority | Name                          | Port | Protocol | Source            | Destination    |
|----------|-------------------------------|------|----------|-------------------|----------------|
| 300      | RDP                           | 3389 | TCP      | Any               | Any            |
| 65000    | AllowVnetInBound              | Any  | Any      | VirtualNetwork    | VirtualNetwork |
| 65001    | AllowAzureLoadBalancerInBo... | Any  | Any      | AzureLoadBalancer | Any            |
| 65500    | DenyAllInBound                | Any  | Any      | Any               | Any            |

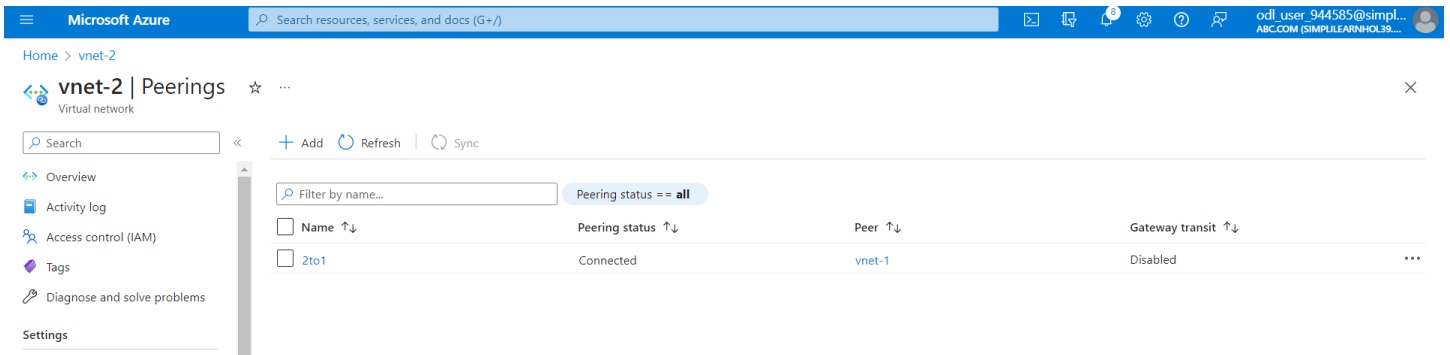
The default behaviour is as expected:



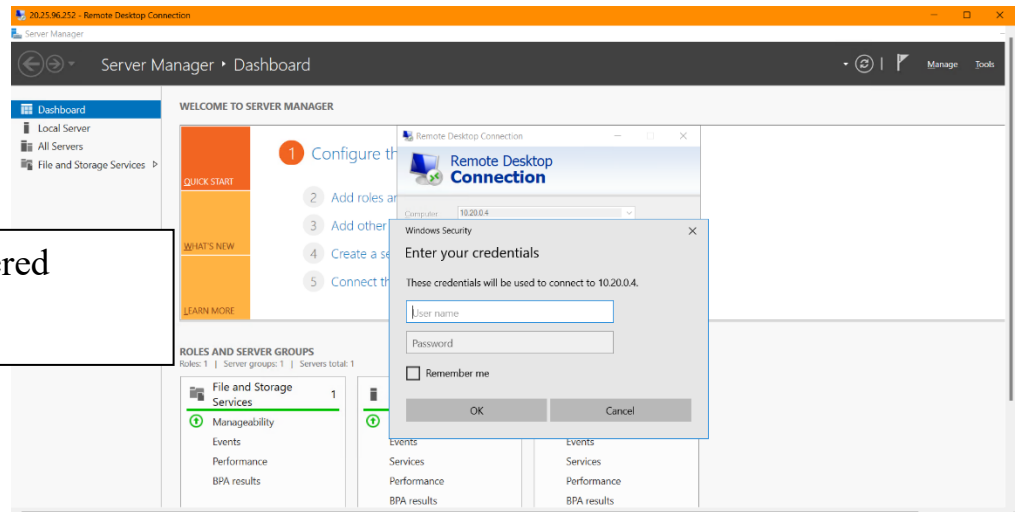
## Step 3: Creating Peering:

The peering connection between the two VNETs



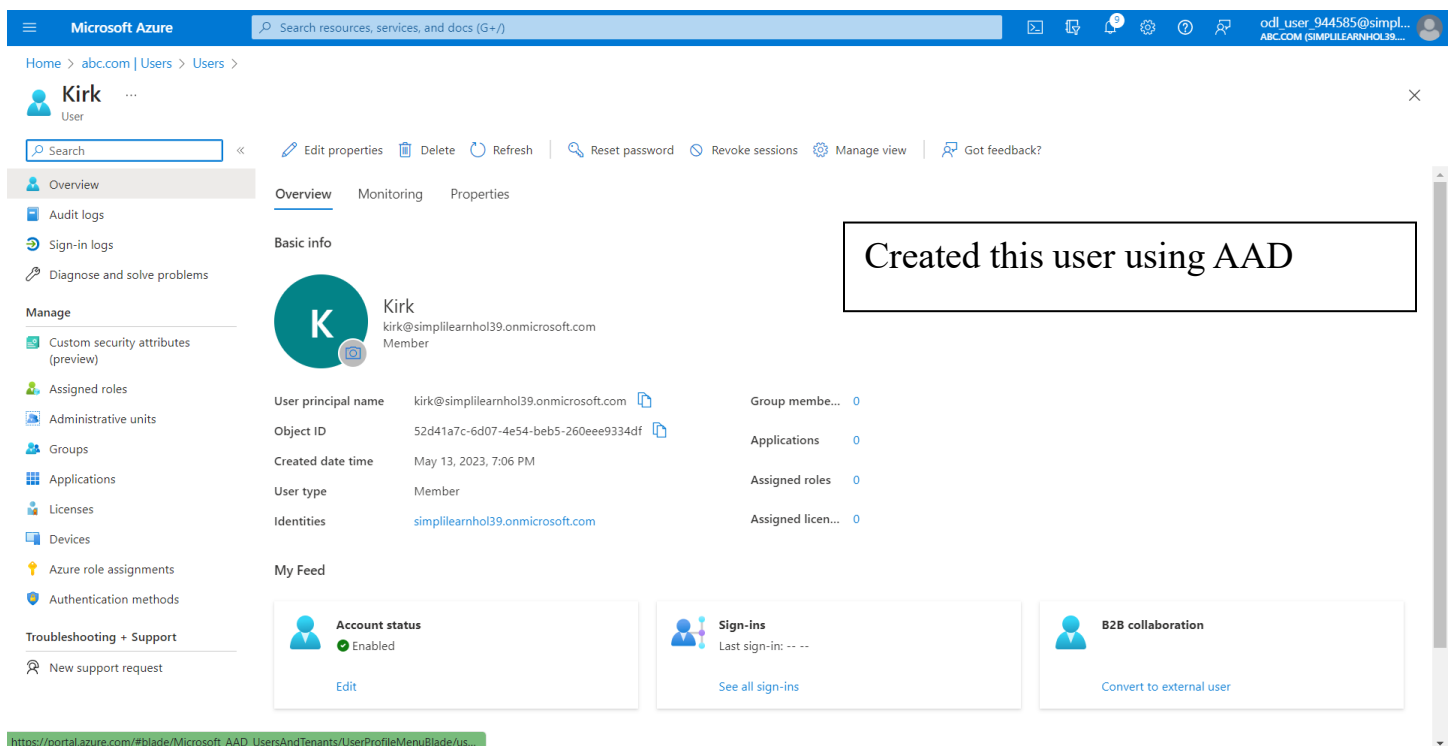


The above screenshot displays the peered connection between the two Vnets.



This displays that the peered connection is successful.

## Step 4: Creating a cloud only user: AAD



## Creating a custom Role and adding the permissions:

Microsoft Azure

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odl\_user\_944585@simpl...  
ABC.COM (SIMPLILEARNHOL39...

Home > Resource groups > rg-project1-Nikhil | Access control (IAM) >

Create a custom role ...

BasicsPermissionsAssignable scopesJSONReview + create

+ Add permissions+ Exclude permissions

Click Add permissions to select the permissions you want to add to this custom role.  
To add a wildcard (\*) permission, you must manually add the permission on the JSON tab. [Learn more](#) <sup>ⓘ</sup>  
To exclude specific permissions from a wildcard permission, click Exclude permissions. [Learn more](#) <sup>ⓘ</sup>

| Permission   | ↑↓ | Description                         | ↑↓ | Permission type | ↑↓ |
|--|----|-------------------------------------|----|-----------------|----|
| Microsoft.Compute/virtualMachines/read                         |    | Get the properties of a virtual ... |    | Action          |    |
| Microsoft.Compute/virtualMachines/start/action                 |    | Starts the virtual machine          |    | Action          |    |
| Microsoft.Compute/virtualMachines/restart/action               |    | Restarts the virtual machine        |    | Action          |    |
| Microsoft.Network/virtualNetworks/read                         |    | Get the virtual network definiti... |    | Action          |    |
| Microsoft.Storage/storageAccounts/read                         |    | Returns the list of storage acco... |    | Action          |    |
| Microsoft.Storage/storageAccounts/blobServices/containers/read |    | Returns a container                 |    | Action          |    |
| Microsoft.Resources/subscriptions/resourceGroups/read          |    | Gets or lists resource groups.      |    | Action          |    |
| Microsoft.Resources/subscriptions/read                         |    | Gets the list of subscriptions.     |    | Action          |    |

Definitions

**Control plane**  
Actions specify the operations that a role is allowed to perform. NotActions specify the operations that are excluded from the allowed Actions (this is useful if a role has wildcards).

**Data plane**  
DataActions specify the operations that a role is allowed to perform to the data within an object. NotDataActions specify the operations that are excluded from the allowed DataActions (this is useful if a role has wildcards).

**Wildcards (\*)**  
A wildcard (\*) extends a permission to everything that matches the string you provide. To add a wildcard permission, use the JSON tab.

Review + createPreviousNext

Feedback

Assigning the custom role to the user:

Microsoft Azure

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odl\_user\_944585@simpl...  
ABC.COM (SIMPLILEARNHOL39....

Home > Resource groups > rg-project1-Nikhil | Access control (IAM) >

Add role assignment ...

RoleMembersReview + assign

**Role**

user-vmadmin-custom

**Scope**

/subscriptions/882a8d1b-7505-4efb-9de6-99523bb959bd/resourceGroups/rg-project1-Nikhil

**Members**

| Name | Object ID                            | Type |
|------|--------------------------------------|------|
| Kirk | 52d41a7c-6d07-4e54-beb5-260eee9334df | User |

**Description**

No description

odl\_user\_944585@simpl...  
ABC.COM (SIMPLILEARNHOL39....

Added Role assignment

Kirk was added as user-vmadmin-custom for rg-project1-Nikhil.

✕

The screenshot displays the Microsoft Azure portal interface. At the top, the navigation bar shows 'Microsoft Azure' and a search bar. The user's profile is visible in the top right corner, with the email 'kirk@simplelearnhol39.onmicrosoft.com' and the domain 'ABC.COM (SIMPLELEARNHOL39...)'. The main content area is titled 'Virtual machines' and shows a list of VMs, including 'vm1' and 'vm2'. The 'vm1' VM is selected, and its details are shown in the 'Overview' tab. The 'Essentials' section provides key information about the VM, including its resource group, status, location, subscription, and operating system. The 'Properties' section lists details such as the computer name, operating system, publisher, and offer. The 'Networking' section shows the public and private IP addresses. A red box highlights the user's profile in the top right corner.

Microsoft Azure portal showing the details of a virtual machine (vm1). The user's profile is visible in the top right corner, indicating they are logged in as kirk@simplelearnhol39.onmicrosoft.com (ABC.COM (SIMPLELEARNHOL39...)).

User has gotten all the assigned permissions.