

## Step 1: Set up virtual network -1 and add a virtual machine in West-US 2

Selvi-VM1-VNet1 | Overview

Resource group (move) : Selvi-RG  
Status : Running  
Location : West US 2  
Subscription (move) :  
Subscription ID :  
Tags (edit) : Add tags

Operating system : Windows (Windows Server 2019 Datacenter)  
Size : Standard DS2 v2 (2 vcpus, 7 GB memory)  
Public IP address : 209.189.28  
Virtual network/subnet : Selvi-VNet1/Core  
DNS name : Not configured  
Health state : -  
Time created : 8/28/2025, 9:01 PM UTC

JSON View

## Step 2: Set up virtual network -2 and add a virtual machine in West-US 2

CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250828210845 | Overview

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsS... Start time: 8/28/2025, 9:14:32 PM  
Subscription: Microsoft Windows Server 2025 Standard  
Resource group: RG Correlation ID: 7d4a72de-0128-4e91-81ab-58d021e6a1c

Deployment details

Next steps

- Setup auto-shutdown Recommended
- Monitor VM health, performance and network dependencies Recommended
- Run a script inside the virtual machine Recommended

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Selvi-VNet1 - Microsoft Azure | Selvi-VM2-VNet2 - Microsoft Azure | +

https://portal.azure.com/#@simplylearnhol17.onmicrosoft.com/resource/subscriptions/7132032a-f179-42d9-8a37-3738035ff911/resourcegroups/Selvi-RG/providers/Microsoft.Compute/virtualMa... A

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-2025082810845 | Overview >

Selvi-VM2-VNet2 Virtual machine

Help me copy this VM in any region | Manage this VM with Azure CLI

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

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Connect

Networking

Settings

Availability + scale

Essentials

Resource group (move) : Selvi-RG

Status : Running

Location : West US 2

Subscription (move) :

Subscription ID :

Operating system : Windows (Windows Server 2019 Datacenter)

Size : Standard DS2 v2 (2 vcpus, 7 GiB memory)

Public IP address : 4.246.122.159

Virtual network/subnet : Selvi-VNet2/default

DNS name : Not configured

Health state : -

Time created : 8/28/2025, 9:14 PM UTC

Tags (edit) : Add tags

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Selvi-VNet1 - Microsoft Azure | Selvi-VM2-VNet2 - Microsoft Azure | NetworkWatcher\_Selvi-VM1-VNet1-20250828212805-84 | +

https://portal.azure.com/#view/HubsExtension/DeploymentDetailsOverviewV2Blade/id/%2Fsubscriptions%2F7132032a-f179-42d9-8a37-3738035ff911%2Fresourcegroups%2FSelvi-RG%2Fprovider... A

Microsoft Azure

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Copilot

Home > NetworkWatcher\_Selvi-VM1-VNet1-20250828212805-84 Deployment

Delete Cancel Redeploy Download Refresh

Your deployment is complete

Deployment name: NetworkWatcher\_Selvi-VM1-VNet1-20250828212805-84 Start time: 8/28/2025, 9:28:06 PM Subscription: ... Correlation ID: 0a6743dd-2cbd-439d-8856-369f9ae Resource group: Selvi-RG

Deployment details

Resource	Type	Status	Operation de...
Selvi-VM1-VNet1/AzureNetwork	Microsoft.Compute/virtualMachines/...	OK	Operation de...

Next steps

Notifications

More events in the activity log →

Deployment succeeded Deployment 'NetworkWatcher\_Selvi-VM1-VNet1-20250828212805-84' for successful resource group 'Selvi-RG'.

Cost Management Get notified to stay within your budget and prevent unexpected charges on your bill. Set up cost alerts >

Microsoft Defender for Cloud

## Step 3: Configure VNet peering between the 2 virtual networks

Selvi-VNet1 | Peerings

Virtual network

Search resources, services, and docs (G+)

Add Refresh Export to CSV Delete Sync

Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. The virtual networks appear as one for connectivity purposes. [Learn more](#)

Name	Peering sync status	Peering state	Remote VNet	Virtual Network	Action
VM-VNet2-To-VM-VNet1	Fully Synchronized	Connected	Selvi-VN...	Disabled	⋮

## Step 4: Test the connectivity between VMs

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Microsoft Azure

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Run Command Script

RunPowerShellScript

Script execution in progress...

PowerShell Script

```
1 Test-NetConnection 10.0.1.4 -port 3389
```

Run

Microsoft Azure

Home > Selvi-VM2-VNet2

### Selvi-VM2-VNet2 | Run command

Virtual machine

Run

Output

ComputerName : 10.0.1.4  
RemoteAddress : 10.0.1.4  
RemotePort : 3389  
InterfaceAlias : Ethernet 2  
SourceAddress : 10.1.0.4  
TcpTestSucceeded : True

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## Step 5 : Create Custom RBAC Role and add permissions to access VM, Network, Storage

Microsoft Azure

Home > Resource groups > Selvi-RG

### Selvi-RG | Access control (IAM)

Resource group

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Resource visualizer

Events

Settings

Cost Management

Monitoring

Automation

vmpope

Name ↑

### VMOperator

CustomRole

Permissions JSON Assignments

Description: VM Operator for both virtual networks

Action required: 1 user assignments

Type: All

Permission Type

Actions DataActions

Showing 12 of 12 permissions

Type	Permissions	Description
Read	Get Virtual Machine ⓘ	Get the properties of a virtual machine
Other	Start Virtual Machine ⓘ	Starts the virtual machine

CustomRole

Showing 12 of 12 permissions

Type	Permissions	Description
▼ Microsoft.Compute		
Read	Get Virtual Machine ⓘ	Get the properties of a virtual machine
Other	Start Virtual Machine ⓘ	Starts the virtual machine
Other	Restart Virtual Machine ⓘ	Restarts the virtual machine
Other	Deallocate Virtual Machine ⓘ	Powers off the virtual machine and releases the compute resources
▼ Microsoft.Network		
Read	Get Network Interface ⓘ	Gets a network interface definition.
Read	Get Network Security Group ⓘ	Gets a network security group definition
Read	Get Public Ip Address ⓘ	Gets a public ip address definition.
Read	Get Virtual Network ⓘ	Get the virtual network definition
▼ Microsoft.Storage		
Read	Get blob container ⓘ	Returns a container
Read	List of blob containers ⓘ	Returns list of containers
Read	List File Services ⓘ	List file services
Read	Get file service properties ⓘ	Get file service properties

## Step 6: User Creation: (User name - Test User)

The screenshot shows the Microsoft Azure portal interface for managing users. The top navigation bar includes 'Microsoft Azure', a search bar, and various icons for Copilot, settings, and help. Below the navigation, the breadcrumb path is 'Home > Simplilearn HOL 17 | Users > Users >'. A sidebar on the left lists options like Overview, Audit logs, Sign-in logs, Diagnose and solve problems, Custom security attributes, Assigned roles, Administrative units, Groups, Applications, and Licenses. The main content area displays the 'TestUser' profile. The profile card shows a placeholder profile picture with a 'T', the name 'TestUser', and the role 'Member'. Below the card, detailed information is listed: User principal name (TestUser@...), Object ID (6c775010-59b0-4e1a-96b2-733376f08ef6), Created date/time (Aug 28, 2025, 11:20 PM), User type (Member), Group memberships (0), Applications (0), Assigned roles (0), and Assigned licenses (0). Action buttons at the top of the profile card include 'Edit properties', 'Delete', 'Refresh', 'Reset password', 'Revoke sessions', 'Manage view', and 'Got feedback?'

## Role Assignment: [Role assignment name - VM Operator]

Home > Selvi-RG

## Selvi-RG | Access control (IAM)

Resource group

Overview Activity log Access control (IAM) Tags Resource visualizer Events Settings Cost Management Monitoring

Check access Role assignments Roles Deny assignments Classic administrators

Looking for the previous check access view? [Click here.](#)

**Check access**  
Review the level of access a user, group, service principal, or managed identity has to this resource. [Learn more](#)

**Role assignments**

Number of role assignments for this subscription: 29

Scope	Count
All	34
4000	29

[View assignments](#)

Filter:  Type : All Role : All Scope : All scopes State : All End time : All Group by : Role

All (1) Job function roles (1) Privileged administrator roles (0)

Name	Type	Role	Scope	State	End time	Condition
TestUser 6c775010-59b0-4e...	User	VMOperator	This resource	Eligible time-bound	8/28/2026, 11:25:50 PM	None

Showing 1 - 1 of 1 results.

Added Role assignment  
TestUser now has Eligible Timebound assignment for VMOperator role on Selvi-RG.

## Step 7 - Logged in as TestUser and validate the TestUser has access to the Virtual Machines in the 2 virtual Networks

The screenshot shows the Microsoft Azure Compute Infrastructure Virtual Machines page. The left sidebar navigation includes 'Overview', 'All resources', 'Infrastructure' (selected), 'Virtual machines' (selected), 'Virtual Machine Scale Set (VMS)', 'Compute Fleet', 'Disks + images', 'Capacity + placement', and 'Related services'. The main content area displays a table of virtual machines with columns: Name, Subscription, Resource Group, Location, Status, Operating system, Size, Public IP address, and Disks. Two entries are listed: 'Selvi-VM1-VNet1' and 'Selvi-VM2-VNet2', both located in 'West US 2' and running on 'Windows' operating systems.

## The TestUser is able to start/stop the virtual machine

The screenshot shows the Microsoft Azure Virtual Machine details page for 'Selvi-VM1-VNet1'. The left sidebar navigation includes 'Overview' (selected), 'Activity log', 'Access control (IAM)', 'Tags', 'Diagnose and solve problems', 'Resource visualizer', 'Connect', 'Networking', and 'Settings'. The main content area shows the VM's configuration with sections for 'Essentials' (Resource group: Selvi-RG, Status: Stopped (deallocated), Location: West US 2, Subscription: Standard D52 v2, Public IP address: 20.9.189.28, Virtual network/subnet: Selvi-VNet1/Core, DNS name: Not configured) and 'JSON View'. On the right, a 'Notifications' panel shows a message: 'Successfully stopped virtual machine' with the note 'Successfully stopped the virtual machine 'Selvi-VM1-VNet1''. A 'More events in the activity log' link is also present.