

Create a vnet

Microsoft Azure

Search resources, services, and docs (G+/

Home > Virtual networks >

Create virtual network ...

Basics

Security

IP addresses

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.](#)

Project details

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

Subscription *

Manohar Subscription

Resource group *

Demo-RG

[Create new](#)

Instance details

Virtual network name *

INDVnet

Region * ⓘ

(Asia Pacific) Central India

[Deploy to an Azure Extended Zone](#)

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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 segment the virtual network address space into smaller ranges for use by your applications. When you deploy resources into a subnet, Azure assigns the resource an IP address from the subnet. [Learn more](#) 📄

+ Add a subnet

^ 10.0.0.0/16 🗑 Delete address space

10.0.0.0 /16

10.0.0.0 - 10.0.255.255 65,536 addresses

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

Add IPv4 address space | ▾

Home > Virtual networks >

Create virtual network ...

Basics Security IP addresses Tags Review + create

[View automation template](#)

Basics

| | |
|----------------|----------------------|
| Subscription | Manohar Subscription |
| Resource Group | Demo-RG |
| Name | INDVnet |
| Region | Central India |

Security

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

IP addresses

| | |
|---------------|--|
| Address space | 10.0.0.0/16 (65,536 addresses) |
| Subnet | VMSubnet (10.0.0.0/24) (256 addresses) |

Tags

[Previous](#) [Next](#) [Create](#)

Microsoft Azure

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Copilot

maheeshkumar0091989@gmail.com

Home >

INDVnet-1737825576809 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : INDVnet-1737825576809

Subscription : Manohar Subscription

Resource group : Demo-RG

Start time : 1/25/2025, 10:49:39 PM

Correlation ID : 48a8cd79-f16d-4e91-9abf-0e250aed28a

> Deployment details

< Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Deployment succeeded

Deployment "INDVnet-1737825576809" to resource group "Demo-RG" was successful.

Go to resource Pin to dashboard

Cost management

Get notified to stay within your budget and prevent unexpected charges on your bill.

Set up cost alerts >

Microsoft Defender for Cloud

Secure your apps and infrastructure

Go to Microsoft Defender for Cloud >

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Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.

Find an Azure expert >

Create another subnet

Microsoft Azure

Home > INDVnet-1737825576809 | Overview > INDVnet

INDVnet | Subnets

Virtual network

Search

+ Subnet Refresh Manage users Delete

Create subnets to segment the virtual network address space into smaller ranges for use by your applications. When you deploy resources into a subnet, Azure assigns the resource an IP address from the subnet.

Search subnets

| Name | IPAM Pool | IPv4 | IPv6 |
|----------|-----------|-------------|------|
| VMSubnet | - | 10.0.0.0/24 | - |

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](#)

Subnet purpose: Default

Name: TestSubnet

IPv4

Include an IPv4 address space: ☒

IPv4 address range: 10.0.0.0/24 (10.0.0.0 - 10.0.255.255)

Starting address: 10.0.1.0

Size: /24 (256 addresses)

Subnet address range: 10.0.1.0 - 10.0.1.255

IPv6

Include an IPv6 address space: ☐ This virtual network has no IPv6 address ranges.

Private subnet

Private subnets enhance security by not providing default outbound access. To enable outbound connectivity for virtual machines to access the internet, it is necessary to explicitly grant outbound access. A NAT gateway is the recommended way to provide outbound connectivity for virtual machines in the subnet. [Learn more](#)

Enable private subnet (no default outbound access): ☐

Security: ☐

Add Cancel Give feedback

Microsoft Azure

Home > INDVnet-1737825576809 | Overview > INDVnet

INDVnet | Subnets

Virtual network

Search

+ Subnet Refresh Manage users Delete

Create subnets to segment the virtual network address space into smaller ranges for use by your applications. When you deploy resources into a subnet, Azure assigns the resource an IP address from the subnet.

Search subnets

| Name | IPAM Pool | IPv4 | IPv6 | Available IPs | Delegated to | Security group | Route table |
|------------|-----------|-------------|------|---------------|--------------|----------------|-------------|
| VMSubnet | - | 10.0.0.0/24 | - | 251 | - | - | - |
| TestSubnet | - | 10.0.1.0/24 | - | 251 | - | - | - |

Successfully added subnet
Successfully added subnet 'TestSubnet' to virtual network 'INDVnet'.

Create a virtual machine in vmsubnet

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Create a virtual machine ...

[Help me create a low cost VM](#)[Help me create a VM optimized for high availability](#)[Help me choose the right VM size for my workload](#)[Basics](#)[Disks](#)[Networking](#)[Management](#)[Monitoring](#)[Advanced](#)[Tags](#)[Review + create](#)

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab 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 * ⓘ

Manohar Subscription

Resource group * ⓘ

Demo-RG

[Create new](#)

Instance details

Virtual machine name * ⓘ

INDVM

Region * ⓘ

(Asia Pacific) Central India

Availability options ⓘ

No infrastructure redundancy required

Security type ⓘ

Trusted launch virtual machines

[Configure security features](#)

Image * ⓘ

Windows Server 2022 Datacenter - x64 Gen2

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

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Review + create

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Create a virtual machine ...

[Help me create a low cost VM](#)[Help me create a VM optimized for high availability](#)[Help me choose the right VM size for my workload](#)☒ x64

Arm64 is not supported with the selected image.

Run with Azure Spot discount

☐

Size *

Standard_B2ms - 2 vcpus, 8 GiB memory (₹5,927.45/month)

[See all sizes](#)

Enable Hibernation

☐ Hibernation is not supported by the size that you have selected. Choose a size that is compatible with Hibernation to enable this feature. [Learn more](#)

Administrator account

Username *

manohar

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

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Create a virtual machine

Help me create a low cost VM

Help me create a VM optimized for high availability

Help me choose the right VM size for my workload

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

Virtual network *

INDVnet

Create new

Subnet *

VMSubnet (10.0.0.0/24)

Manage subnet configuration

Public IP

(new) INDVM-ip

Create new

NIC network security group

None

Basic

Advanced

All ports on this virtual machine may be exposed to the public internet. This is a security risk. Use a network security group to limit public access to specific ports. You can also select a subnet that already has network security groups defined or remove the public IP address.

Delete public IP and NIC when VM is deleted

Enable accelerated networking

The selected VM size does not support accelerated networking.

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

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Microsoft Azure

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CreateVm-MicrosoftWindowsServer.WindowsServer-202-20250125225113 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 1/25/2025, 10:52:39 PM

Subscription: Manohar Subscription Correlation ID: 46b57a1a-d1ec-4f8a-845c-54bc4ecf2897

Resource group: Demo-RG

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

Create another vm in testsubnet

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Create a virtual machine ...

[Help me create a low cost VM](#)[Help me create a VM optimized for high availability](#)[Help me choose the right VM size for my workload](#)**Basics**[Disks](#)[Networking](#)[Management](#)[Monitoring](#)[Advanced](#)[Tags](#)[Review + create](#)

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab 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 * ⓘ

Manohar Subscription

Resource group * ⓘ

Demo-RG

[Create new](#)**Instance details**

Virtual machine name * ⓘ

TestVM ✓

Region * ⓘ

(Asia Pacific) Central India

Availability options ⓘ

No infrastructure redundancy required

Security type ⓘ

Trusted launch virtual machines

[Configure security features](#)

Image * ⓘ

Windows Server 2022 Datacenter - x64 Gen2

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

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Create a virtual machine ...



Help me create a low cost VM



Help me create a VM optimized for high availability



Help me choose the right VM size for my workload

x64

Arm64 is not supported with the selected image.

Run with Azure Spot discount

☐

Size *

Standard_B2ms - 2 vcpus, 8 GiB memory (₹5,927.45/month)

[See all sizes](#)

Enable Hibernation

☐

Hibernation is not supported by the size that you have selected. Choose a size that is compatible with Hibernation to enable this feature. [Learn more](#)

Administrator account

Username *

manohar

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

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Create a virtual machine

Help me create a low cost VM

Help me create a VM optimized for high availability

Help me choose the right VM size for my workload

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + 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 *

INDVnet

Create new

Subnet *

TestSubnet (10.0.1.0/24)

Manage subnet configuration

Public IP

(new) TestVM-ip

Create new

NIC network security group

☒ None

☐ Basic

☐ Advanced

⚠ All ports on this virtual machine may be exposed to the public internet. This is a security risk. Use a network security group to limit public access to specific ports. You can also select a subnet that already has network security groups defined or remove the public IP address.

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CreateVm-MicrosoftWindowsServer.WindowsServer-202-20250125225736 | Overview

Deployment

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DeleteCancelRedeployDownloadRefresh

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Template

✓ Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe...

Subscription: Manohar Subscription

Resource group: Demo-RG

Start time: 1/25/2025, 10:58:42 PM

Correlation ID: 2d21a66e-9c65-410e-89a4-3708c4fe5b4e

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

Create a network security group.

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Create network security group ...

Basics Tags Review + create

Project details

Subscription *

Manohar Subscription

Resource group *

Demo-RG

Create new

Instance details

Name *

app-nsg

Region *

Central India

Review + create

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Create network security group ...

Validation passed

Basics

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Basics

Subscription

Resource group

Region

name

Manohar Subscription

Demo-RG

Central India

app-nsg

Tags

None

Create

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app-nsg

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NSG flow logs

Automation

CU / PS

Essentials

Resource group (move) : Demo-RG

Location : Central India

Subscription (move) : Manohar Subscription

Subscription ID : 32aeb345-c46e-4708-be87-491dbf8d1da9

Tags (edit) : Add tags

Custom security rules : 0 inbound, 0 outbound

Associated with : 0 subnets, 0 network interfaces

Filter by name

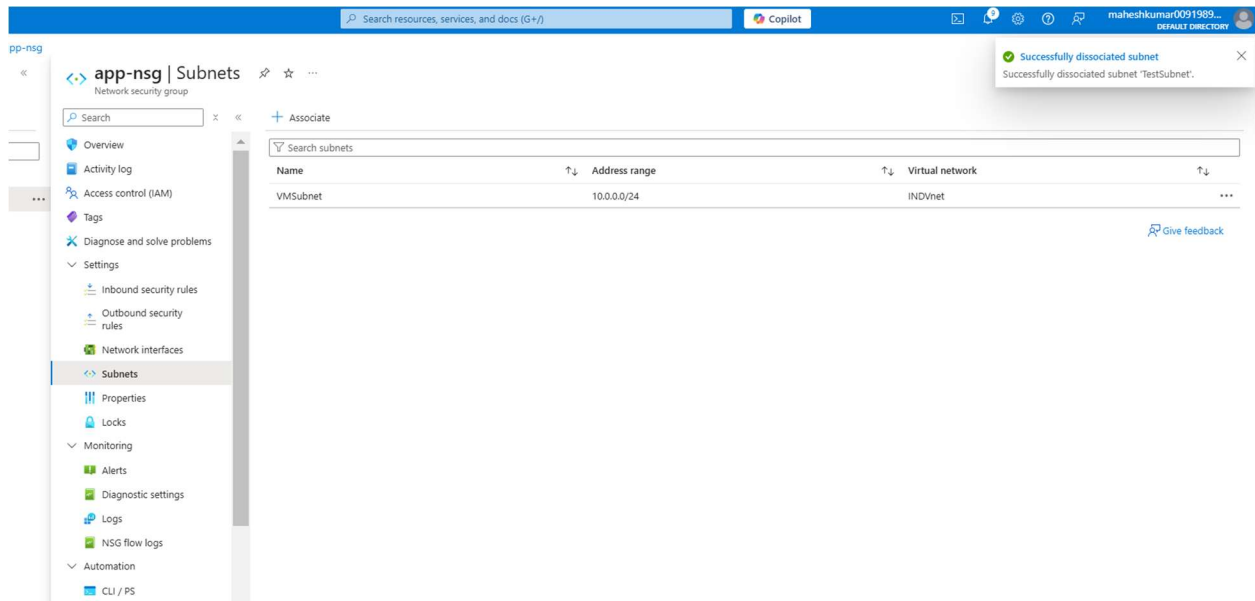
Port == all Protocol == all Source == all Destination == all Action == all

| Priority | Name | Port | Protocol | Source | Destination | Action |
|-------------------------|-------------------------------|------|----------|-------------------|----------------|--------|
| Inbound Security Rules | | | | | | |
| 65000 | AllowVnetInBound | Any | Any | VirtualNetwork | VirtualNetwork | Allow |
| 65001 | AllowAzureLoadBalancerInBound | Any | Any | AzureLoadBalancer | Any | Allow |
| 65500 | DenyAllInBound | Any | Any | Any | Any | Deny |
| Outbound Security Rules | | | | | | |
| 65000 | AllowVnetOutBound | Any | Any | VirtualNetwork | VirtualNetwork | Allow |
| 65001 | AllowInternetOutBound | Any | Any | Any | Internet | Allow |
| 65500 | DenyAllOutBound | Any | Any | Any | Any | Deny |

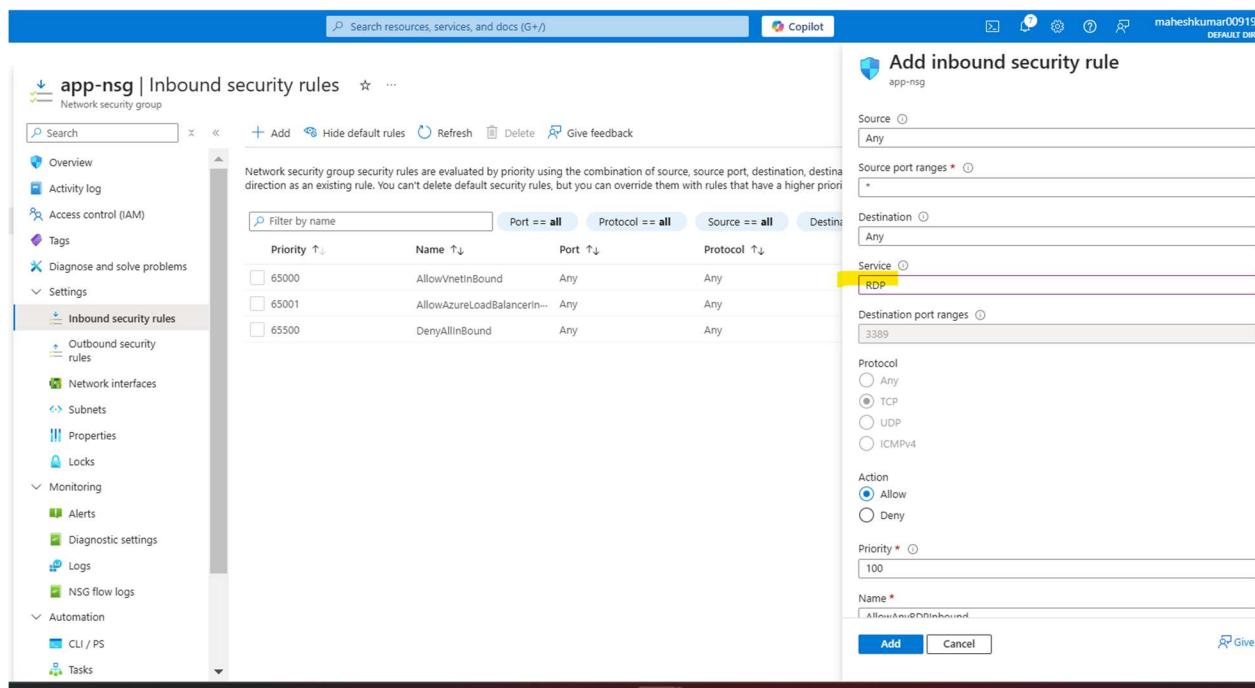
Associate the NSG with vmsubnet

The screenshot shows the Azure portal interface. On the left, the navigation pane is open to 'app-nsg | Subnets' under the 'Network security group' category. The main pane shows a search bar and a table with the header 'Search subnets'. The table has columns 'Name' and 'Address range'. Below the header, it says 'No results.' On the right, the 'Associate subnet' dialog is open. It shows 'Virtual network' as 'INDVnet (Demo-RG)' and 'Subnet' as 'VMSubnet'. At the bottom of the dialog is an 'OK' button. The system tray at the bottom shows the time as 11:02 PM.

The screenshot shows the Azure portal interface. On the left, the navigation pane is open to 'app-nsg | Subnets' under the 'Network security group' category. The main pane shows a search bar and a table with the header 'Search subnets'. The table has columns 'Name' and 'Address range'. Below the header, it says 'No results.' On the right, the 'Associate subnet' dialog is open. It shows 'Virtual network' as 'INDVnet (Demo-RG)' and 'Subnet' as 'TestSubnet'. At the bottom of the dialog is an 'OK' button. A notification bubble is visible in the top right corner of the dialog, stating 'Saving subnet' and 'Saving network security group for subnet 'TestSubnet''. The system tray at the bottom shows the time as 11:03 PM on 1/25/2025.



Allow RDP access



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DEFAULT DIRECTORY

app-nsg | Inbound security rules

Network security group

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Tasks

Network security group security rules are evaluated by priority using the combination of source, source port, destination, destination port, and protocol to allow or deny the traffic. A security rule can't have the same priority and direction as an existing rule. You can't delete default security rules, but you can override them with rules that have a higher priority. [Learn more](#)

Filter by name Port == all Protocol == all Source == all Destination == all Action == all

| Priority | Name | Port | Protocol | Source | Destination | Action |
|----------|-----------------------------|------|----------|-------------------|----------------|--------|
| 100 | AllowAnyRDPInbound | 3389 | TCP | Any | Any | Allow |
| 65000 | AllowVnetInBound | Any | Any | VirtualNetwork | VirtualNetwork | Allow |
| 65001 | AllowAzureLoadBalancerIn... | Any | Any | AzureLoadBalancer | Any | Allow |
| 65500 | DenyAllInBound | Any | Any | Any | Any | Deny |

Create another nsg



Create network security group ...

Basics Tags Review + create

Project details

| | |
|------------------|----------------------|
| Subscription * | Manohar Subscription |
| Resource group * | Demo-RG |

[Create new](#)

Instance details

| | |
|----------|---------------|
| Name * | test-nsg |
| Region * | Central India |

Review + create

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Create network security group ...

Validation passed

Basics

Tags

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Basics

| | |
|----------------|----------------------|
| Subscription | Manohar Subscription |
| Resource group | Demo-RG |
| Region | Central India |
| name | test-nsg |

Tags

None



Home > **Microsoft.NetworkSecurityGroup-20250125230910** | Overview ...

Search

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

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Template

Your deployment is complete

Deployment name : Microsoft.NetworkSecurityGroup-20250125230910
Subscription : Manohar Subscription
Resource group : Demo-RG

Start time : 1/25/2025, 11:09:39 PM
Correlation ID : 1a689904-c0c8-4bc0-a6a7-229baa6f09f6

> Deployment details

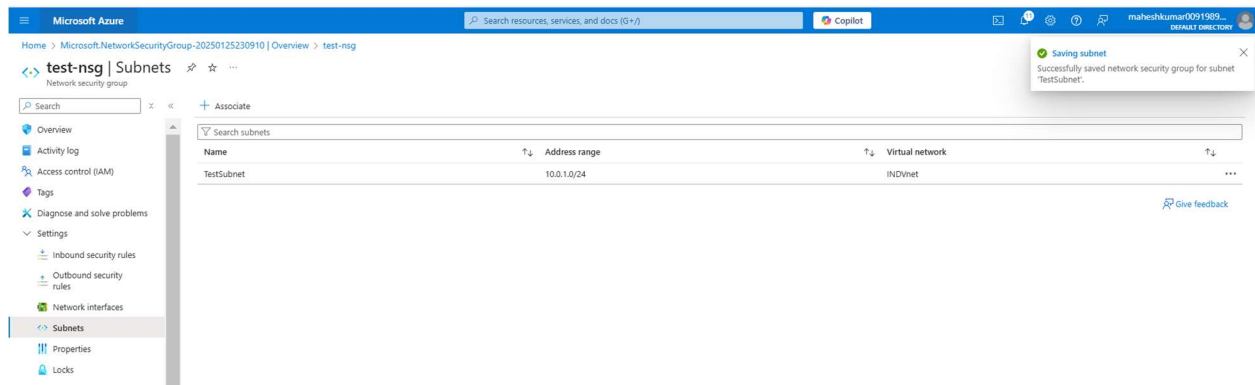
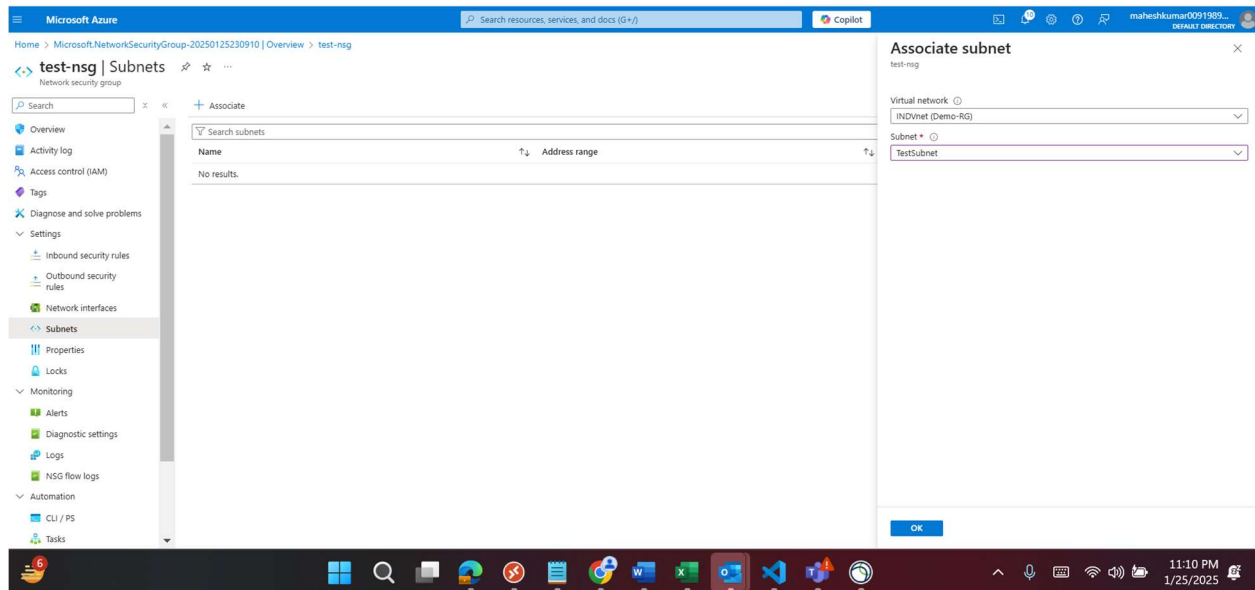
< Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Associate with test subnet



Allow RDP Access

Microsoft Azure

Home > Microsoft.NetworkSecurityGroup-20250125230910 | Overview > test-nsg

test-nsg | Inbound security rules

Network security group

Filter by name

| Priority | Name | Port | Protocol | Source | Destination | Action |
|----------|-------------------------------|------|----------|--------|-------------------|--------|
| 65000 | AllowVnetInbound | Any | Any | Any | VirtualNetwork | Allow |
| 65001 | AllowAzureLoadBalancerInbound | Any | Any | Any | AzureLoadBalancer | Allow |
| 65500 | DenyAllInbound | Any | Any | Any | Any | Deny |

Add inbound security rule

Source: Any

Source port ranges: *

Destination: Any

Service: RDP

Destination port ranges: 3389

Protocol: TCP

Action: Allow

Priority: 100

Name: AllowRDPInbound

Add Cancel

Connect to INDVM

Microsoft Azure

Home > Virtual machines > Virtual machines

Virtual machines

Default Directory

INDVM

Overview

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Connect

Bastion

Windows Admin Center

Run

Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.

Open: mstsc /v:4.213.156.179

OK Cancel Browse...

Help me copy this VM in any region

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

Essentials

Resource group (move): Demo-BG

Status: Running

Location: Central India

Subscription (move): Manshar Subscription

Subscription ID: 32aeb345-c46e-4708-be07-491dbf8d1da9

Operating system: Windows (Windows Server 2022 Datacenter)

Size: Standard 82ms (2 vcpus, 8 GiB memory)

Public IP address: 4.213.156.179

Virtual network/subnet: INDVnet/VMSubnet

DNS name: Not configured

Health state: OK

Time created: 1/25/2023, 5:22 PM UTC

Tags (edit): Add tags

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name: INDVM

Operating system: Windows (Windows Server 2022 Datacenter)

VM generation: V2

VM architecture: x64

Agent status: Ready

Agent version: 2.741491.1139

Hibernation: Disabled

Host group: -

Networking

Public IP address: 4.213.156.179 (Network interface indvm30)

Public IP address (IPv6): -

Private IP address: 10.0.0.4

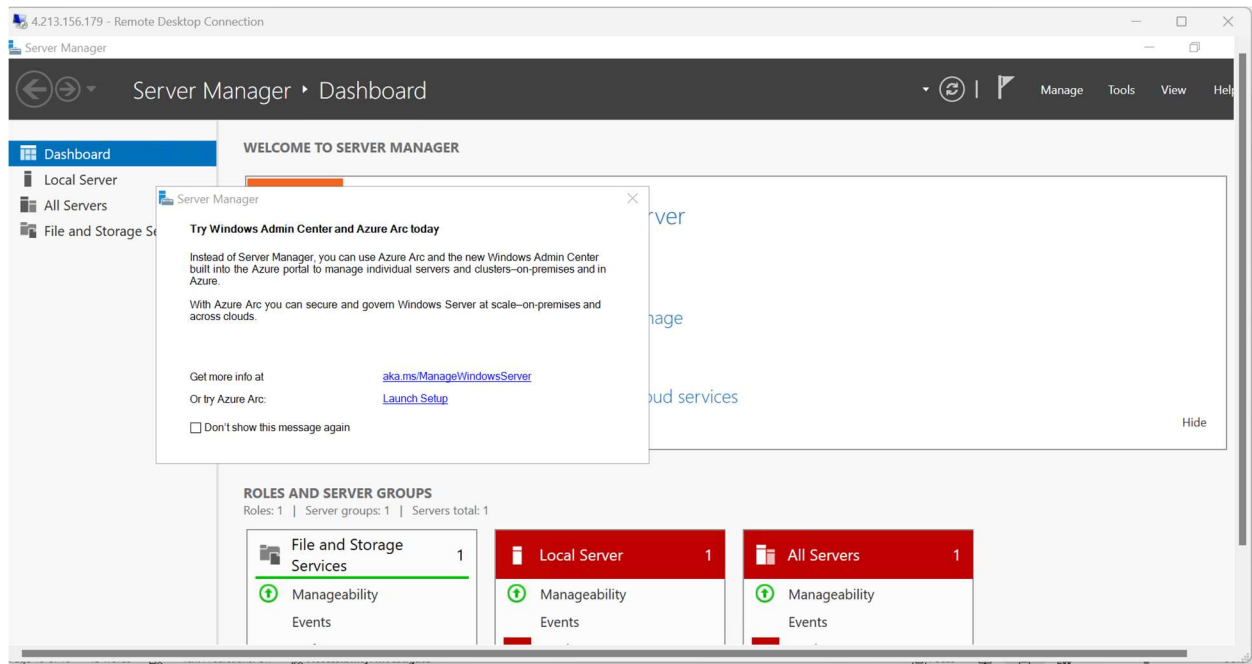
Private IP address (IPv6): -

Virtual network/subnet: INDVnet/VMSubnet

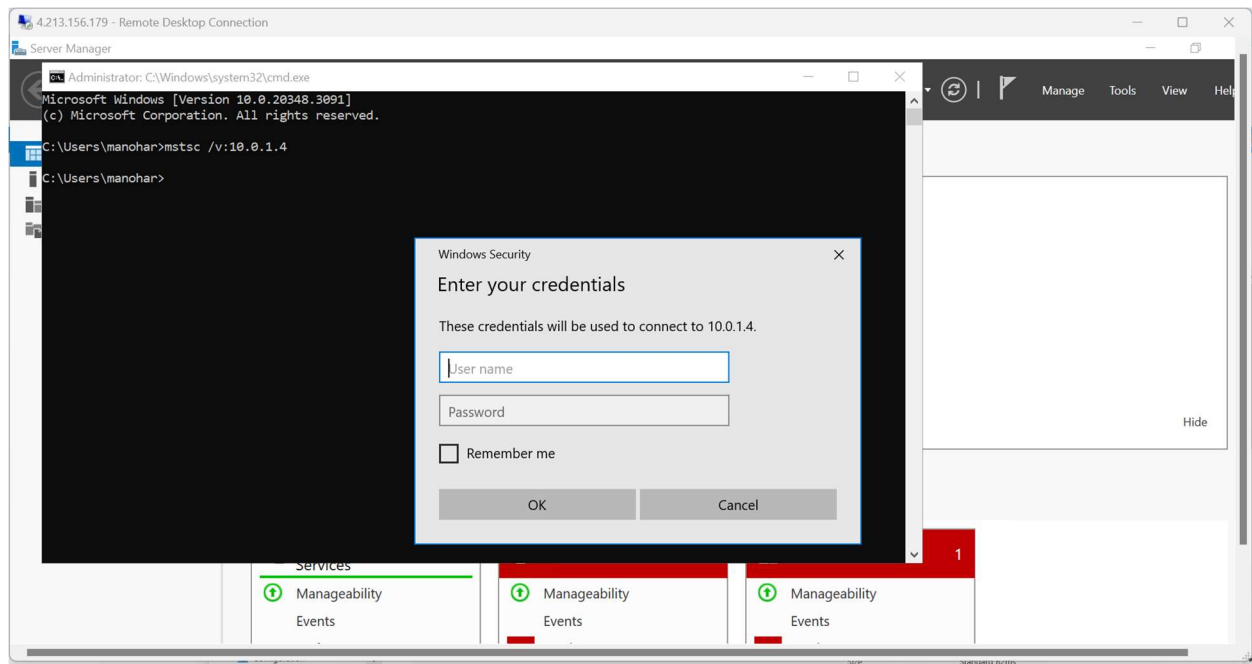
DNS name: Configure

Size

Size: Standard 82ms



We are able to Take RDP of testvm from indvm



×

| | |
|-------------|---|
| 10.0.0.0/24 | ✓ |
|-------------|---|

RDP ▼

☐ Any
☒ TCP
☐ UDP
☐ ICMPv4

☐ Allow

☒ Deny

| | |
|-----|---|
| 150 | ✓ |
|-----|---|

| | |
|-------------------------|---|
| DenyCidrBlockRDPInbound | ✓ |
|-------------------------|---|

Cancel

 Give feedback

test-nsg | Inbound security rules

Search resources, services, and docs (G+)

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DEFAULT DIRECTORY

test-nsg

Network security group

Search

+ Add Hide default rules Refresh Delete Give feedback

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Tasks

Network security group security rules are evaluated by priority using the combination of source, source port, destination, destination port, and protocol. You can't delete default security rules, but you can override them with rules that have a higher priority.

Filter by name

| Priority | Name | Port | Protocol |
|----------|-------------------------------|------|----------|
| 200 | AllowAnyRDPInbound | 3389 | TCP |
| 65000 | AllowVnetInBound | Any | Any |
| 65001 | AllowAzureLoadBalancerInBound | Any | Any |
| 65500 | DenyAllInBound | Any | Any |

Add inbound security rule

test-nsg

Source

IP Addresses

Source IP addresses/CIDR ranges *

10.0.0.0/24

Source port ranges *

*

Destination

IP Addresses

Destination IP addresses/CIDR ranges *

10.0.1.0/24

Service

RDP

Destination port ranges

3389

Protocol

Any

TCP

UDP

ICMPv4

Action

Allow

Deny

Add Cancel

Give feedback

test-nsg | Inbound security rules

Search resources, services, and docs (G+)

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DEFAULT DIRECTORY

test-nsg

Network security group

Search

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Filter by name

| Priority | Name | Port | Protocol |
|----------|-------------------------------|------|----------|
| 200 | AllowAnyRDPInbound | 3389 | TCP |
| 65000 | AllowVnetInBound | Any | Any |
| 65001 | AllowAzureLoadBalancerInBound | Any | Any |
| 65500 | DenyAllInBound | Any | Any |

Add inbound security rule

test-nsg

Destination IP addresses/CIDR ranges *

10.0.1.0/24

Service

RDP

Destination port ranges

3389

Protocol

Any

TCP

UDP

ICMPv4

Action

Allow

Deny

Priority *

150

Name *

DenyCidrBlockRDPInbound

Description

Add Cancel

Give feedback

11:18 PM

Microsoft Azure

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

Copilot

Home > Network security groups > app-nsg

Network security group

app-nsg | Inbound security rules

Filter for any field...

Name ↑

- app-nsg
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Network security group security rules are evaluated by priority using the combination of source, source port, destination, destination port, and protocol to allow or deny the traffic. A security rule can't have the same priority and direction as an existing rule. You can't delete default security rules, but you can override them with rules that have a higher priority. [Learn more](#)

Filter by name

Port == all Protocol == all Source == all Destination == all Action == all

| Priority ↑ | Name ↑ | Port ↑ | Protocol ↑ | Source ↑ | Destination ↑ | Action ↑ |
|--------------------------------|-------------------------------|--------|------------|-------------------|----------------|----------|
| <input type="checkbox"/> 150 | DenyCidrBlockRDPInbound | 3389 | TCP | 10.0.1.0/24 | 10.0.0.0/24 | Deny |
| <input type="checkbox"/> 200 | AllowAnyRDPInbound | 3389 | TCP | Any | Any | Allow |
| <input type="checkbox"/> 65000 | AllowVnetInbound | Any | Any | VirtualNetwork | VirtualNetwork | Allow |
| <input type="checkbox"/> 65001 | AllowAzureLoadBalancerInbound | Any | Any | AzureLoadBalancer | Any | Allow |
| <input type="checkbox"/> 65500 | DenyAllInbound | Any | Any | Any | Any | Deny |

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| <input type="checkbox"/> 65500 | DenyAllInbound | Any | Any | Any | Any | Deny |

Now we are unable to take RDP of testvm from INDVM

