

## 1. Create a Virtual Network in West US:

- **In Azure Portal:**

1. Go to "Virtual networks."
2. Click on "Create."
3. Select the **West US** region.
4. Define a name, address space (20.0.0.0/16), and subnets.
5. Review and create the virtual network.

## 2. Create Another Virtual Network in South India:

- **In Azure Portal:**

1. Repeat the above steps for **South India**.
2. Name the virtual network and provide an address space (10.1.0.0/16).
3. Add subnets and deploy.

Virtual networks

Default Directory

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

Showing 1 to 2 of 2 records.

<input type="checkbox"/> Name ↑↓	Resource group ↑↓	Location ↑↓	Subscription ↑↓	
<input type="checkbox"/> South-india	NetworkWatcherRG	South India	Free Trial	***
<input type="checkbox"/> west-us	NetworkWatcherRG	West US 2	Free Trial	***

## 3. Deploy a Virtual Machine in West US:

- **In Azure Portal:**

1. Go to "Virtual Machines."
2. Click "Create."
3. Select **West US** for the region.
4. Assign the VM to the **West US Virtual Network** created earlier.

5. Choose an OS image (windows), size, authentication, and storage.
6. Complete the setup and launch the VM.

## Create a virtual machine ...

✓ Validation passed

Help me create a low cost VM
Help me create a VM optimized for high availability
Help me choose the right

### Basics

Subscription	Free Trial
Resource group	NetworkWatcherRG
Virtual machine name	westus-windows
Region	West US 2
Availability options	No infrastructure redundancy required
Zone options	Self-selected zone
Security type	Standard
Image	Windows Server 2022 Datacenter: Azure Edition Hotpatch - Gen2
VM architecture	x64
Size	Standard D2s v3 (2 vcpus, 8 GiB memory)
Enable Hibernation	No
Username	windows
Public inbound ports	RDP
Already have a Windows license?	No
Azure Spot	No

westus-windows

Virtual machine

Search

Connect

Start

Restart

Stop

Hibernate

Capture

Delete

Refresh

Open in mobile

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center

westus-windows virtual machine agent status is not ready. Troubleshoot the issue →

Virtual machine

Computer name

Operating system

VM generation

VM architecture

Agent status

Agent version

Hibernation

westus-windows

Windows

V2

x64

Not Ready

Unknown

Disabled

Networking

Public IP address

Public IP address (IPv6) -

Private IP address

Private IP address (IPv6) -

Virtual network/subnet

DNS name

13.66.251.56 ( Network interface westus-windows498 )

-

20.0.0.4

-

west-us/default

Configure

## 4. Deploy a Virtual Machine in South India:

- **In Azure Portal:**

1. Repeat the steps to create another virtual machine in **South India**.
2. Make sure the VM is connected to the **South India Virtual Network**.

### 3. Complete deployment.

#### Create a virtual machine ...

✓ Validation passed

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

Subscription

Resource group

Virtual machine name

Region

Availability options

Zone options

Security type

Image

VM architecture

Size

Enable Hibernation

Username

Public inbound ports

Already have a Windows license?

Azure Spot

Free Trial

NetworkWatcherRG

South-windows

South India

No infrastructure redundancy required

Self-selected zone

Standard

Windows Server 2022 Datacenter: Azure Edition Hotpatch - Gen2

x64

Standard D2s v3 (2 vcpus, 8 GiB memory)

No

windows

RDP

No

No

South-windows

Virtual machine

Search

Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center

Disks

Size

Microsoft Defender for

Health state

-

Time created

9/26/2024, 8:45 AM UTC

Tags (edit)

[Add tags](#)

Properties

Monitoring

Capabilities (8)

Recommendations

Tutorials

Virtual machine

Computer name

Operating system

VM generation

VM architecture

Agent status

South-windows

Windows (Windows Server 2022 Datacenter Azure Edition)

V2

x64

Ready

Networking

Public IP address

Public IP address (IPv6)

Private IP address

Private IP address (IPv6)

4.247.27.10 ( Network interface south-windows689 )

10.0.0.4

-

### 5. Assign a Static IP Address to the VM:

- **In Azure Portal:**
  1. Once the VM is deployed, navigate to the **Virtual Machine** you just created.
  2. Under the "Settings" section, click on **Networking**.
  3. Under the "Network Interface" section, click on the **network interface** associated with the VM.
  4. In the network interface settings, click on **IP configurations**.

5. Select the **IP configuration** (usually named ipconfig1).
6. Under **Assignment**, change the **IP address assignment** from **Dynamic** to **Static**.
7. Click "Save."

## Edit IP configuration

south-windows689


**i** A primary IP configuration already exists. Any additional IP configurations will be secondary. The virtual network this network interface is attached to only supports IPv4. [Learn more](#)

Name *	ipconfig1
IP version	IPv4
Type	Primary

### Private IP address settings

Allocation	<input type="radio"/> Dynamic
	<input checked="" type="radio"/> Static
Private IP address *	10.0.0.7

### Public IP address settings

Associate public IP address	<input checked="" type="checkbox"/>
Public IP address *	south-windows-ip (4.247.27.10) 

[Create a public IP address](#)


## 6. Create a New Network Interface (NIC)

- **In Azure Portal:**

1. Go to **Networking**.

2. Under "Settings" on the left side, select **Network interfaces**.
3. Click **Add** to create a new NIC.
4. Specify the following details:
  - **Name:** Provide a name for the new NIC.
  - **Virtual network:** Select the virtual network where you want the NIC to reside (the same one used for your VM).
  - **Subnet:** Choose the subnet associated with the virtual network.
  - **Private IP:** Set it to either **Dynamic** or **Static** depending on your requirements.
5. Click **Review + Create** and then **Create** to deploy the NIC.

## Create network interface ...

 Running final validation...

Basics   Tags   Review + create

### Basics

Subscription	Free Trial
Resource group	NetworkWatcherRG
Region	South India
Name	newnic
Virtual network	South-india (NetworkWatcherRG)
Subnet	default (10.0.0.0/24)
IP version	IPv4
Private IP address assignment	Dynamic

### Tags

None

## 7. Attach NIC to the Previously Created VM

- **In Azure Portal:**

1. Once the NIC is created, navigate back to your previously created VM.
2. Under "Settings," click on **Networking**.
3. In the **Network interface** section, click on **Attach network interface**.
4. Select the newly created NIC from the list and click **OK**.

