

Cloud Computing Assignment 1

Create a virtual network and bastion host

[illegible]

Basics

Security

IP addresses

Tags

Review + create

Azure Bastion

Azure Bastion is a paid service that provides secure RDP/SSH connectivity to your virtual machines over TLS. When you connect via Azure Bastion, your virtual machines do not need a public IP address. [Learn more.](#)

Enable Azure Bastion

☒

Azure Bastion host name

bastion

Azure Bastion public IP address *

(New) public-ip

The domain name is already in use. : public-ip
[Create a public IP address](#)

Create virtual machines

[Home](#) > [Virtual machines](#) >

Create a virtual machine

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Monitoring](#) [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 ⓘ

vnet-1

Create new

Subnet ⓘ

subnet-1 (10.0.0.0/24)

Manage subnet configuration

Public IP ⓘ

None

Create new

NIC network security group ⓘ

☐ None

☐ Basic

☒ Advanced

Configure network security group *

(new) nsg-1

Create new

Delete NIC when VM is deleted ⓘ

☐

Enable accelerated networking ⓘ

☐

The selected VM size does not support accelerated networking.

Review + create

< Previous

Next > Management >

[Home](#) > [Virtual machines](#) > ...

Create a virtual machine

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](#) >


 This subscription may not be eligible to deploy VMs of certain sizes in certain regions.


Project details

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

Subscription * 


Azure for Students 


Resource group * 


test-rg 


[Create new](#)


Instance details


Virtual machine name * 


vm-2 


Region * 

(Asia Pacific) Central India 


Availability options 



No infrastructure redundancy required 

Security type 

Trusted launch virtual machines 

[Configure security features](#)

Image * 

 Ubuntu Server 22.04 LTS - x64 Gen2 

Review + create

< Previous

Next > Disks >

Home > Virtual machines >

Create a virtual machine

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + create

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Subscription * ⓘ

Azure for Students

Resource group * ⓘ

test-rg

Create new

Instance details

Virtual machine name * ⓘ

vm-1

Region * ⓘ

(Asia Pacific) Central India

Availability options ⓘ

No infrastructure redundancy required

Security type ⓘ

Standard

Image * ⓘ

Ubuntu Server 22.04 LTS - x64 Gen2

Review + create

< Previous

Next: Disks >

Home > Virtual machines >

Create a virtual machine

VM architecture ⓘ

Arm64

x64

Run with Azure Spot discount ⓘ

☐

Size * ⓘ

Standard_B2s - 2 vcpus, 4 GiB memory (₹2,568.39/month)

See all sizes

Enable Hibernation (preview) ⓘ

☐

To enable Hibernation, you must register your subscription. [Learn more](#)

Administrator account

Authentication type ⓘ

SSH public key

Password

Username * ⓘ

azureuser

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

Review + create

< Previous

Next: Disks >

Connect to a virtual machine

```
azureuser@vm-1:~$ ping -c 4 vm-2
PING vm-2.xktlsubxake1o0ng1e0d5g02f.rx.internal.cloudapp.net (10.0.0.5) 56(84) bytes of data.
64 bytes from vm-2.internal.cloudapp.net (10.0.0.5): icmp_seq=1 ttl=64 time=4.30 ms
64 bytes from vm-2.internal.cloudapp.net (10.0.0.5): icmp_seq=2 ttl=64 time=1.02 ms
64 bytes from vm-2.internal.cloudapp.net (10.0.0.5): icmp_seq=3 ttl=64 time=1.08 ms
64 bytes from vm-2.internal.cloudapp.net (10.0.0.5): icmp_seq=4 ttl=64 time=1.00 ms

--- vm-2.xktlsubxake1o0ng1e0d5g02f.rx.internal.cloudapp.net ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 1.002/1.850/4.300/1.414 ms
azureuser@vm-1:~$

azureuser@vm-2:~$ ping -c 4 vm-1
PING vm-1.2xktlsubxake1o0ng1e0d5g02f.rx.internal.cloudapp.net (10.0.0.4) 56(84) bytes of data.
64 bytes from vm-1.internal.cloudapp.net (10.0.0.4): icmp_seq=1 ttl=64 time=1.26 ms
64 bytes from vm-1.internal.cloudapp.net (10.0.0.4): icmp_seq=2 ttl=64 time=1.70 ms
64 bytes from vm-1.internal.cloudapp.net (10.0.0.4): icmp_seq=3 ttl=64 time=1.32 ms
64 bytes from vm-1.internal.cloudapp.net (10.0.0.4): icmp_seq=4 ttl=64 time=1.69 ms

--- vm-1.2xktlsubxake1o0ng1e0d5g02f.rx.internal.cloudapp.net ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 1.264/1.492/1.698/0.202 ms
azureuser@vm-2:~$
```

Delete a resource group - Microsoft Azure

Resource groups

test-rg

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Deployment stacks

Policies

Properties

Locks

Cost Management

Cost analysis

Cost alerts (preview)

Budgets

Advisor recommendations

Monitoring

Insights (preview)

test-rg

Subscription (copy)

Subscription ID

Tags

Resources

Recommendations

Delete a resource group

The following resource group and all its dependent resources will be permanently deleted.

Resource group to be deleted

test-rg

Dependent resources to be deleted (10)

All dependent resources, including hidden types, are shown

Name	Resource type
bastion	Bastion
nsgr-1	Network security group
public-ip	Public IP address
vm-1	Virtual machine
vm-171	Network interface
vm-1_OsDisk_1_04e689b10e6d45399e86cf70d833ff	Disk
vm-2	Virtual machine
vm-2671	Network interface
vm-2_OsDisk_1_b90137c41064980710947	Disk

☐ Apply force delete for selected Virtual machines and Virtual machine scale sets ⓘ

Enter resource group name to confirm deletion *

test-rg

Delete Cancel