



IT4090

Cloud Computing

4th Year, 1st Semester

Azure Lab 3

Azure - Use the Azure portal to create a virtual network

Submitted to

Sri Lanka Institute of Information Technology

IT21228094

In partial fulfillment of the requirements for the
Bachelor of Science Special Honors Degree in Information Technology

02/09/2024

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Virtual networks

[Sri Lanka Institute of Information Technology \(slit.lk\)](#)

[+ Create](#) [Manage view](#) [Refresh](#) [Export to CSV](#) [Open query](#) [Assign tags](#)

[Subscription equals all](#) [Resource group equals all](#) [Location equals all](#) [Add filter](#)

Showing 0 to 0 of 0 records.

No grouping


List view

Name ↑↓

Resource group ↑↓

Location ↑↓

Subscription ↑↓



No virtual networks to display

Create a virtual network to securely connect your Azure resources to each other. Connect your virtual network to your on-premises network using an Azure VPN Gateway or ExpressRoute.

[Create virtual network](#)

[Learn more](#)

[Give feedback](#)

Home > Virtual networks >

Create virtual network

Basics

Security

IP addresses

Tags

Review + create

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 *

(New) test-rg

Create new

Instance details

Virtual network name *

vnet-1

Region *

(US) East US 2

Deploy to an Azure Extended Zone

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Virtual network encryption

☐

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-bastion

Create a public IP address

Azure Firewall

Azure Firewall is a managed cloud-based network security service that protects your Azure Virtual Network resources. [Learn](#)

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Review + create

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Create virtual network

BasicsSecurityIP addressesTagsReview + create

Define the address space of your virtual network with one or more IPv4 or IPv6 address ranges. Create subnets to divide your 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 IPv4 address space

10.0.0.0/16

10.0.0.0 /16

10.0.0.0 - 10.0.255.25565,536 addresses

+ Add a subnet

Subnets	IP address range	Size	NAT gateway
default	10.0.0.0 - 10.0.0.255	/24 (256 addresses)	-
AzureBastionSubnet	10.0.1.0 - 10.0.1.63	/26 (64 addresses)	-

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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](#)

Subnet purpose

Default

Name *

subnet-1

IPv4

Include an IPv4 address space

IPv4 address range *

10.0.0.0/1610.0.0.0 - 10.0.255.255

Starting address *

10.0.0.0

Size

/24 (256 addresses)

Subnet address range

10.0.0.0 - 10.0.0.255

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](#)

Save

Cancel

Give feedback

Home > Virtual networks >

Create virtual network

BasicsSecurityIP addressesTagsReview + create

Define the address space of your virtual network with one or more IPv4 or IPv6 address ranges. Create subnets to divide your 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 IPv4 address space

10.0.0.0/16

10.0.0.0 /16

10.0.0.0 - 10.0.255.25565,536 addresses

+ Add a subnet

Subnets	IP address range	Size	NAT gateway
subnet-1	10.0.0.0 - 10.0.0.255	/24 (256 addresses)	-
AzureBastionSubnet	10.0.1.0 - 10.0.1.63	/26 (64 addresses)	-

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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](#)

Subnet purpose

Default

Name *

subnet-1

IPv4

Include an IPv4 address space

IPv4 address range *

10.0.0.0/1610.0.0.0 - 10.0.255.255

Starting address *

10.0.0.0

Size

/24 (256 addresses)

Subnet address range

10.0.0.0 - 10.0.0.255

IPv6

Include an IPv6 address space

This virtual network has no IPv6 address ranges.

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Save

Cancel

Give feedback

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Running validation...

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Review + create

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Basics

Subscription

Azure for Students

Resource Group

test-rg

Name

vnet-1

Region

East US 2

Security

Azure Bastion

Enabled

- Name

(New) bastion

- Public IP Address

(New) public-ip-bastion

Azure Firewall

Disabled

Azure DDoS Network Protection

Disabled

IP addresses

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Create

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Home > Virtual machines >

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

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-1

Region *

(US) East US 2

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Review + create

Give feedback

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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

Instance details

Virtual machine name *

vm-1

Region *

(US) East US 2

Availability options

No infrastructure redundancy required

Security type

Standard

Image *

Ubuntu Server 22.04 LTS - x64 Gen2

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

This image is compatible with additional security features. [Click here to swap to the Trusted launch security type.](#)

VM architecture

Arm64

x64

Run with Azure Spot discount

Size *

Standard_E2s_v3 - 2 vcpus, 16 GiB memory (US\$97.09/month)

[See all sizes](#)

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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

Run with Azure Spot discount

☐

Size *

Standard_E2s_v3 - 2 vcpus, 16 GiB memory (US\$97.09/month)

[See all sizes](#)

Enable Hibernation

☐

Hibernate 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

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

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Create a virtual machine

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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

☐ Allow selected ports

Select inbound ports

Select one or more ports

All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

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Review > create

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Create network security group ...

Name *

nsg-1

Inbound rules

1000: default-allow-ssh

Any

SSH (TCP/22)

+ Add an inbound rule

✓

Outbound rules

No results.

+ Add an outbound rule

OK

Home > Virtual machines >

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

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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

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Validation passed

Help me create a low cost VMHelp me create a VM optimized for high availabilityHelp me choose the right VM size for my workload

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + create

Price

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Preferred e-mail addressIT21265006@my.slit.lk

Preferred phone number

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*** Initializing deployment...
Initializing template deployment to resource group 'test-rg'.

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CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20240825110634 | Overview

✖

Deployment

Search

✖

«

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j... Start time: 25/08/2024, 11:15:34
Subscription: [Azure for Students](#) Correlation ID: 8b22b0c4-7c73-4950-8bca-60b3bd8897ac

Resource group: test-rg

Deployment details

Resource	Type	Status	Operation details
vm-1	Microsoft.Compute/virtualMachines	Created	Operation details
vm-1628	Microsoft.Network/networkInterfa...	Created	Operation details
nsg-1	Microsoft.Network/networkSecuri...	OK	Operation details

Give feedback
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✖

Deployment

Search

✖

«

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j... Start time: 25/08/2024, 11:15:34
Subscription: [Azure for Students](#) Correlation ID: 8b22b0c4-7c73-4950-8bca-60b3bd8897ac

Resource group: test-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](#)

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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

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Review + create

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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 *

(US) East US 2

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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

Create new

Instance details

Virtual machine name *

vm-2

Region *

(US) East US 2

Availability options

No infrastructure redundancy required

Security type

Standard

Image *

Ubuntu Server 22.04 LTS - x64 Gen2

See all images | Configure VM generation

This image is compatible with additional security features. [Click here to swap to the Trusted launch security type.](#)

VM architecture

Arm64

x64

Run with Azure Spot discount

Size *

Standard_E2s_v3 - 2 vcpus, 16 GiB memory (US\$97.09/month)

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Create a virtual machine

Help me create a low cost VM

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Help me choose the right VM size for my workload

VM architecture

Arm64

x64

Run with Azure Spot discount

☐

Size

Standard_E2s_v3 - 2 vcpus, 16 GiB memory (US\$97.09/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

Authentication type

SSH public key

Password

Username

azureuser

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Create a virtual machine

Help me create a low cost VM

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Help me choose the right VM size for my workload

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Administrator account

Authentication type

SSH public key

Password

Username

azureuser

Password

Confirm password

Inbound port rules

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Help me choose the right VM size for my workload

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

☐ Allow selected ports

Select inbound ports

Select one or more ports

ⓘ All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

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Review + create

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[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 *

nsg-1

Create new

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Create a virtual machine

Help me create a low cost VM

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Help me choose the right VM size for my workload

Create new

NIC network security group

None

Basic

Advanced

Configure network security group *

nsg-1

Create new

Delete NIC when VM is deleted

Enable accelerated networking

Load balancing

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

Load balancing options

None

Azure load balancer
Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.

Application gateway
Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.

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Create a virtual machine

Running final validation...

Help me create a low cost VM

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Help me choose the right VM size for my workload

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Price

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Preferred e-mail address

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Preferred domain name

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Create a virtual machine

Validation passed

Help me create a low cost VM

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IT21265006@my.slit.lk

Preferred domain name

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Create

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Give feedback

Home >

CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20240825112112 | Overview

Deployment

Search x «

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j... Start time: 25/08/2024, 11:29:50

Subscription: Azure for Students Correlation ID: 4206ce3d-e603-472a-99f4-f040ed132c0b

Resource group: test-rg

Deployment details

Resource	Type	Status	Operation details
No results.			

Give feedback

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CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20240825112112 | Overview

Deployment

Search x «

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j... Start time: 25/08/2024, 11:29:50

Subscription: Azure for Students Correlation ID: 4206ce3d-e603-472a-99f4-f040ed132c0b

Resource group: test-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

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Virtual machines

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+ Create

Switch to classic

Reservations

Manage view

Refresh

Export to CSV

Open query

Assign tags

Start

Restart

Stop

Delete

Services

Maintenance

Filter for any field...

Subscription equals all

Type equals all

Resource group equals all

Location equals all

Add filter

Showing 1 to 2 of 2 records.

No grouping

List view

<input type="checkbox"/> Name	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disks	
<input type="checkbox"/> vm-1	Azure for Students	test-rg	East US 2	Running	Linux	Standard_E2s_v3	-	1	...
<input type="checkbox"/> vm-2	Azure for Students	test-rg	East US 2	Running	Linux	Standard_E2s_v3	-	1	...

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Virtual machines

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Switch to classic

Filter for any field...

vm-1

vm-2

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Networking

Settings

Availability + scale

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Backup + disaster recovery

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vm-1

Virtual machine

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Connect

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Restart

Stop

Hibernate

Capture

Delete

Refresh

Open in mobile

Advisor (1 of 1): Enable Trusted Launch foundational excellence, and modern security for Existing Generation 2 VM(s) →

Essentials

Resource group (move) test-rg

Status Running

Location East US 2

Subscription (move) Azure for Students

Subscription ID e348b53f-5bd8-452b-afd1-b6789491cdc5

Operating system Linux (ubuntu 22.04)

Size Standard_E2s_v3

Public IP address

Virtual network/subnet

DNS name

Health state

Time created 25/08/2024, 05:45 UTC

Tags (edit) Add tags

JSON View

Properties

Monitoring

Capabilities (7)

Recommendations (1)

Tutorials

Virtual machine

Networking

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Virtual machines

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+ Create Switch to classic ...

Filter for any field...

Name ↑

vm-1

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Azure Bastion protects your virtual machines by secure and seamless RDP & SSH connectivity without the need to expose them through public IP addresses. [Learn more](#)

Using Bastion: **bastion**

Provisioning State: **Succeeded**

Please enter username and password to your virtual machine to connect using Bastion.

Authentication Type

VM Password

Username

azureuser

VM Password

Show

☐ Open in new browser tab

Connect

Tell us what you think of the Bastion experience

Home > test-rg >

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Advisor (1 of 1): Enable Trusted Launch foundational excellence, and modern security for Existing Generation 2 VM(s) →

Essentials

Resource group (move) : test-rg

Status : Running

Location : East US 2

Subscription (move) : Azure for Students

Subscription ID : e348b53f-5bd8-452b-afd1-b6789491cdc5

Operating system : Linux (ubuntu 22.04)

Size : Standard_E2s_v3

Public IP address : -

Virtual network/subnet : vnet-1/subnet-1

DNS name : -

Health state : -

Time created : 25/08/2024, 05:59 UTC

Tags (edit) : Add tags

JSON View

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Monitoring

Capabilities (7)

Recommendations (1)

Tutorials

Virtual machine

Computer name : vm-2

Operating system : Linux (ubuntu 22.04)

VM generation : V2

Agent status : Ready

Agent version : 2.11.1.4

Networking

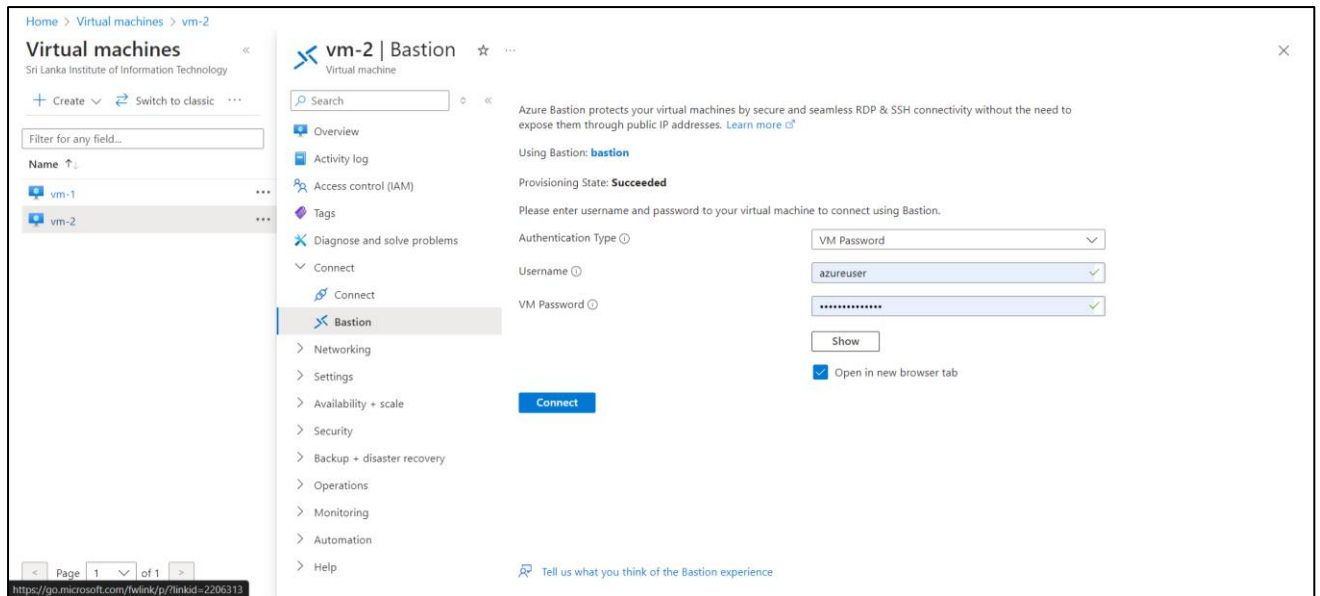
Public IP address : -

Public IP address (IPv6) : -

Private IP address : 10.0.0.5

Private IP address (IPv6) : -

Virtual network/subnet : vnet-1/subnet-1



```
System information as of Sun Aug 25 06:08:45 UTC 2024

System load:  0.0          Processes:      123
Usage of /:   5.2% of 28.89GB Users logged in:  0
Memory usage: 2%          IPv4 address for eth0: 10.0.0.4
Swap usage:   0%

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
  just raised the bar for easy, resilient and secure K8s cluster deployment.

  https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

❗
The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Sun Aug 25 06:04:29 2024 from 10.0.1.5
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

azureuser@vm-1:~$ ping -c 4 vm-2
PING vm-2.buzyzppwqbpezao2y4z45p1pbe.cx.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=1.77 ms
64 bytes from vm-2.internal.cloudapp.net (10.0.0.5): icmp_seq=2 ttl=64 time=1.15 ms
64 bytes from vm-2.internal.cloudapp.net (10.0.0.5): icmp_seq=3 ttl=64 time=1.53 ms
64 bytes from vm-2.internal.cloudapp.net (10.0.0.5): icmp_seq=4 ttl=64 time=1.28 ms

--- vm-2.buzyzppwqbpezao2y4z45p1pbe.cx.internal.cloudapp.net ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3006ms
rtt min/avg/max/mdev = 1.146/1.431/1.765/0.237 ms
azureuser@vm-1:~$
```

```
Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

azureuser@vm-2:~$ ping -c 4 vm-1
PING vm-1.czre5jzz3phulnypnyjfanefvb.cx.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=1.18 ms
64 bytes from vm-1.internal.cloudapp.net (10.0.0.4): icmp_seq=2 ttl=64 time=1.52 ms
64 bytes from vm-1.internal.cloudapp.net (10.0.0.4): icmp_seq=3 ttl=64 time=1.28 ms
64 bytes from vm-1.internal.cloudapp.net (10.0.0.4): icmp_seq=4 ttl=64 time=1.28 ms

```