

Microsoft Azure

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

Copilot

user-etfortbsaxi@oreil...
O'REILLY MEDIA CLOUD LABS (O...

Home >

Virtual networks

O'REILLY MEDIA CLOUD LABS (oreilly-cloudlabs.com)

+ 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 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

Give feedback

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Home > Virtual networks >

Create virtual network

Basics Security IP addresses Tags Review + create

Subscription * cloudlabs34

Resource group * user-etfortbsaxi
Create new

Instance details

Virtual network name * vnet-1

Region * (US) East US
Deploy to an Azure Extended Zone

Previous Next Review + create

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Home > Virtual networks >

Create virtual network

Basics Security IP addresses Tags Review + create

Azure Bastion

Azure Bastion is a paid service that provides secure RDP/SSH connectivity via Azure Bastion, your virtual machines do not need a public IP address

Enable Azure Bastion ☒

Azure Bastion host name bastion

Azure Bastion public IP address * (New) vnet-1-bastion
Create a public IP address

Azure Firewall

Add a public IP address

Name * public-ip-bastion

SKU

Basic

Standard

Assignment

Dynamic

Static

Previous Next Review + create OK Cancel

Give feedback

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Home > Virtual networks >

Create virtual network

BasicsSecurityIP addressesTagsReview + create

10.0.0.0/16

10.0.0.0 /16

10.0.0.0 - 10.0.255.25565,536 addresses

Subnets	IP address range
default	10.0.0.0 - 10.0.0.255
AzureBastionSubnet	10.0.1.0 - 10.0.1.63

Previous

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 ⓘ

10.0.0.0/16

10.0.0.0 - 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

Save

Cancel

[Give feedback](#)

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Home > Virtual networks >

Create virtual network

BasicsSecurityIP addressesTagsReview + create

10.0.0.0/16

10.0.0.0 /16

10.0.0.0 - 10.0.255.25565,536 addresses

Delete address space

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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Home >

vnet-1-1742970899594 | Overview

Deployment

Search

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : vnet-1-1742970899594

Subscription : cloudlabs34

Resource group : user-efortsbsaxi

Start time :

Correlation ID : c0306705-95d0-4a76-8f8a-a562b133380a

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Notifications

More events in the activity log →Dismiss all

✓ Deployment succeeded

Deployment 'vnet-1-1742970899594' to resource group 'user-efortsbsaxi' was successful.

Go to reso...Pin to dashb...

a few seconds ago

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Home > vnet-1-1742970899594 | Overview > vnet-1

vnet-1 | 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 ↑	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table
<input type="checkbox"/>	subnet-1	10.0.0.0/24	-	251	-	-	
<input type="checkbox"/>	AzureBastionSu...	10.0.1.0/26	-	57	-	-	

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Home > Virtual networks >

Create virtual network

Basics

Security

IP addresses

Tags

Review + create

Subscription *

cloudlabs34

Resource group *

user-etfortsbsaxi

Create new

Instance details

Virtual network name *

vnet-2

Region *

(US) East US

Deploy to an Azure Extended Zone

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Home > Virtual networks >

Create virtual network

Basics

Security

IP addresses

Tags

Review + create

10.1.0.0/16

10.1.0.0 /16

10.1.0.0 - 10.1.255.255 65,536 addresses

Subnets	IP address range
default	10.1.0.0 - 10.1.0.255

Add IPv4 address space

Previous

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 *

subnet1

IPv4

Include an IPv4 address space

10.1.0.0/16

10.1.0.0 - 10.1.255.255

Starting address *

10.1.0.0

Size

/24 (256 addresses)

Subnet address range

10.1.0.0 - 10.1.0.255

IPv6

Save

Cancel

Give feedback

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user-efortsbsaxi@oreill...
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Home >

vnet-2-1742971663351 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : vnet-2-1742971663351
Subscription : cloudlabs34
Resource group : user-efortsbsaxi
Start time :
Correlation ID : 82a00064-734e-4333-8c6b-0949872d64d9

> Deployment details

< Next steps

Go to resource

Give feedback
Tell us about your experience with deployment

Notifications

More events in the activity log →Dismiss all

✓ Deployment succeeded
Deployment 'vnet-2-1742971663351' to resource group 'user-efortsbsaxi' was successful.
Go to reso... Pin to dashb...
a few seconds ago

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Home > vnet-2-1742971663351 | Overview > vnet-2

vnet-2 | Subnets

Virtual network

Search

+ Subnet Refresh Manage users Delete

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Settings

Address space

Connected devices

Subnets

Bastion

DDoS protection

Firewall

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

<input type="checkbox"/>	Name ↑	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table	
<input type="checkbox"/>	subnet1	10.1.0.0/24	-	251	-	-	-	<div></div>

Showing 1 subnet

Give feedback

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Home > vnet-1

vnet-1 | Peerings

Virtual network

Search

+ Add Refresh Export to CSV Delete Sync

Subnets

Bastion

DDoS protection

Firewall

Microsoft Defender for Cloud

Network manager

DNS servers

Peerings

Service endpoints

Private endpoints

Properties

Locks

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](#)

Filter by name...

Showing all 0 items

<input type="checkbox"/>	Name ↑	Peering sync status ↑	Peeri... ↑	Remo... ↑	Virtu... ↑	Cross-tenant ↑
Add a peering to get started						

Give feedback

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

user-etfortbsaxi@oreill...
O'REILLY MEDIA CLOUD LABS (O...

Home > vnet-1 | Peerings >

Add peering

vnet-1

Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. This will allow resources in either virtual network to directly connect and communicate with resources in the peered virtual network.

Remote virtual network summary

Peering link name *

vnet2-to-vnet1

Virtual network deployment model ⓘ

Resource manager

Classic

I know my resource ID ⓘ

Subscription *

cloudlabs34

Virtual network *

vnet-2 (user-etfortbsaxi)

Add

Cancel

Give feedback

Microsoft Azure

Search resources, services, and docs (G+)

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user-etfortbsaxi@oreill...
O'REILLY MEDIA CLOUD LABS (O...

Home > vnet-1 | Peerings >

Add peering

vnet-1

Remote virtual network peering settings

Allow 'vnet-2' to access 'vnet-1' ⓘ

☒

Allow 'vnet-2' to receive forwarded traffic from 'vnet-1' ⓘ

☒

Allow gateway or route server in 'vnet-2' to forward traffic to 'vnet-1' ⓘ

☐

Enable 'vnet-2' to use 'vnet-1's' remote gateway or route server ⓘ

☐

Local virtual network summary

Peering link name *

Local peering link name

Add

Cancel

Give feedback

Microsoft Azure

Search resources, services, and docs (G+)

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user-etfortbsaxi@oreill...
O'REILLY MEDIA CLOUD LABS (O...

Home > vnet-1 | Peerings >

Add peering

vnet-1

Local virtual network summary

Peering link name *

vnet1-to-vnet2

Local virtual network peering settings

Allow 'vnet-1' to access 'vnet-2' ⓘ

☒

Allow 'vnet-1' to receive forwarded traffic from 'vnet-2' ⓘ

☒

Allow gateway or route server in 'vnet-1' to forward traffic to 'vnet-2' ⓘ

☐

Enable 'vnet-1' to use 'vnet-2's' remote gateway or route server ⓘ

☐

Add

Cancel

Give feedback

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

user-efortsbsaxi@oreil...
O'REILLY MEDIA CLOUD LABS (O...

Home > vnet-1

vnet-1 | Peerings

Virtual network

Search

+ Add Refresh Export to CSV Delete Sync

Filter by name...

Showing all 1 items

	Name	Peering s...	Peeri...	Remo...	Virtu...	Cross-tenant
<input type="checkbox"/>	vnet1-to-vnet2	Fully Synchroni zed	Conne cted	vnet-2	Disabled	No

Give feedback

Notifications

More events in the activity log →Dismiss all

Added virtual network peering

Successfully added virtual network peering 'vnet2-to-vnet1' to 'vnet-2'.

a few seconds ago

Added virtual network peering

Successfully added virtual network peering 'vnet1-to-vnet2' to 'vnet-1'.

a few seconds ago

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

user-efortsbsaxi@oreil...
O'REILLY MEDIA CLOUD LABS (O...

Home > vnet-2

vnet-2 | Peerings

Virtual network

Search

+ Add Refresh Export to CSV Delete Sync

Filter by name...

Showing all 1 items

	Name	Peering s...	Peeri...	Remo...	Virtu...	Cross-tenant
<input type="checkbox"/>	vnet2-to-vnet1	Fully Synchroni zed	Conne cted	vnet-1	Disabled	No

Give feedback

Notifications

More events in the activity log →Dismiss all

Added virtual network peering

Successfully added virtual network peering 'vnet2-to-vnet1' to 'vnet-2'.

a few seconds ago

Added virtual network peering

Successfully added virtual network peering 'vnet1-to-vnet2' to 'vnet-1'.

a few seconds ago

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Home >

Virtual machines

O'REILLY MEDIA CLOUD LABS (oreilly-cloudlabs.com)

+ Create Switch to classic Reservations Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop

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

Showing 0 to 0 of 0 records.

No grouping List view

Name Subscription Resource group Location Status Operating system Size Public IP address

No virtual machines to display

Create a virtual machine that runs Linux or Windows. Select an image from the marketplace or use your own customized image.

+ Create

Give feedback

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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

Resource group *

user-efortsbsaxi
Create new

Instance details

Virtual machine name *

vm-1

Region *

(US) East US

Availability options

No infrastructure redundancy required

Security type

Standard

Trusted launch virtual machine is required when using 1P Gallery images.

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 swao to the

< Previous

Next : Disks >

Review + create

Give feedback

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_DS1_v2 - 1 vcpu, 3.5 GiB memory (\$53.29/month)
See all sizes
Item(s) availability based on policy assignment(s) for the selected scope.
cloud-labs-mg/Microsoft.Authorization/virtualMachine (Policy details)

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

< Previous

Next : Disks >

Review + 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

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.

< Previous

Next : Disks >

Review + 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

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

< Previous

Next : Management >

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

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

☒

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

< Previous

Next : Management >

Review + create

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O'REILLY MEDIA CLOUD LABS (O...

Home >

CreateVm-canonical.0001-com-ubuntu-server-jammy-2-2025032608...

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: Cre...

Subscription: cloudlabs...

Resource group: user-e...

Start time: 3/26...

Correlation ID: 4c...

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

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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Notifications

More events in the activity log →Dismiss all

✓ Deployment succeeded

Deployment 'CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20250326085443' to resource group 'user-efortsbsaxi' was successful.

Go to reso...

Pin to dashb...

a few seconds ago

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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

Resource group *

user-efortsbsaxi

Create new

Instance details

Virtual machine name *

vm-2

Region *

(US) East US

Availability options

No infrastructure redundancy required

Security type

Trusted launch virtual machines

Configure security features

Trusted launch virtual machine is required when using 1P Gallery images.

Image *

Ubuntu Server 22.04 LTS - x64 Gen2

See all images | Configure VM generation

< Previous

Next : Disks >

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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

VM architecture

Arm64

x64

Run with Azure Spot discount

☐

Size *

Standard_DS1_v2 - 1 vcpu, 3.5 GiB memory (\$53.29/month)

See all sizes

Item(s) availability based on policy assignment(s) for the selected scope. cloud-labs-mg/Microsoft.Authorization/VirtualMachine (Policy details)

Enable Hibernation

☐

Hibernate does not currently support Trusted launch and Confidential virtual machines for Linux images. Learn more

Administrator account

Authentication type

SSH public key

Password

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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

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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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

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

Virtual network *

vnet-2

Create new

Subnet *

subnet1 (10.1.0.0/24)

Manage subnet configuration

Public IP

None

Create new

NIC network security group

None

Basic

Advanced

Configure network security group *

(new) vm-2-nsg

Create new

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Home >

CreateVm-canonical.0001-com-ubuntu-server-jammy-2-2025032609...
Deployment

Search

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: Cre... Start time: 3/26...
Subscription: cloudlabs... Correlation ID: b:
Resource group: user-e...

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

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 >

Free Microsoft tutorials

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Notifications

More events in the activity log →Dismiss all

✓ Deployment succeeded

Deployment 'CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20250326090543' to resource group 'user-efortsbsaxi' was successful.

Go to reso...

Pin to dashb...

a few seconds ago

Microsoft Azure

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Home >

Virtual machines

O'REILLY MEDIA CLOUD LABS (oreilly-cloudlabs.com)

+ Create

Switch to classic

Reservations

Manage view

Refresh

Export to CSV

Open query

Assign tags

Start

Restart

Stop

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 ↑↓
<input type="checkbox"/>	vm-1	cloudlabs34	user-efortsbsaxi	East US	Running	Linux	Standard_DS1_v2	20.232.186.125
<input type="checkbox"/>	vm-2	cloudlabs34	user-efortsbsaxi	East US	Running	Linux	Standard_DS1_v2	-

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Next >

Give feedback

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Home > Virtual machines > vm-1

Virtual machines

O'REILLY MEDIA CLOUD LABS (oreilly-cloudlabs.c...

+ Create Switch to classic ...

Filter for any field...

Name ↑↓

- vm-1
- vm-2

Page 1 of 1

vm-1 | Bastion

Virtual machine

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Resource visualizer
- Connect
 - Connect
 - Bastion**
 - Networking
- Settings
 - Disks
 - Extensions +

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

Username

VM Password

Show

☒ Open in new browser tab

Connect

[Tell us what you think of the Bastion experience](#)

```
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-1:~$ ping -c 4 10.1.0.4
PING 10.1.0.4 (10.1.0.4) 56(84) bytes of data:
64 bytes from 10.1.0.4: icmp_seq=1 ttl=64 time=1.87 ms
64 bytes from 10.1.0.4: icmp_seq=2 ttl=64 time=1.11 ms
64 bytes from 10.1.0.4: icmp_seq=3 ttl=64 time=0.857 ms
64 bytes from 10.1.0.4: icmp_seq=4 ttl=64 time=1.06 ms

--- 10.1.0.4 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3008ms
rtt min/avg/max/mdev = 0.857/1.222/1.867/0.383 ms
azureuser@vm-1:~$
```

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Virtual machines

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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

Username

VM Password

Show

☒ Open in new browser tab

Connect

[Tell us what you think of the Bastion experience](#)

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 10.0.0.4
PING 10.0.0.4 (10.0.0.4) 56(84) bytes of data:
64 bytes from 10.0.0.4: icmp_seq=1 ttl=64 time=1.87 ms
64 bytes from 10.0.0.4: icmp_seq=2 ttl=64 time=0.831 ms
64 bytes from 10.0.0.4: icmp_seq=3 ttl=64 time=11.2 ms
64 bytes from 10.0.0.4: icmp_seq=4 ttl=64 time=1.08 ms

--- 10.0.0.4 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3036ms
rtt min/avg/max/mdev = 0.831/3.744/11.199/4.320 ms
azureuser@vm-2:~$
```