



Intro to Devops

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Lab-2-Module-WorkLoad(Virtual Network)

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Arsalan-Aftab (2212284)

Task 1: Create a virtual network

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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 subscription 1

Resource group *

(New) Lab2-rg

[Create new](#)

Instance details

Virtual network name *

vnet1

Region * ⓘ

(US) East US

[Deploy to an Azure Extended Zone](#)

Create virtual network ...

Basics Security IP addresses Tags **Review + create**

[View automation template](#)

Basics

Subscription	Azure subscription 1
Resource Group	Lab2-rg
Name	vnet1
Region	East US

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	default (10.0.0.0/24) (256 addresses)

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Create

portal.azure.com/view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F3adabc5a-382c-44a7-9d9d-5775bdda4908%2FresourceGroups%2FLab2-rg%2F...

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Copilot

anali.devops@outlook.c...
DEFAULT DIRECTORY (AAALDEV...)

Home >

vnet1-1743246587074

Deployment

Overview

Inputs

Outputs

Template

Search

Delete

Cancel

Redeploy

Download

Refresh

Your deployment is complete

Deployment name : vnet1-1743246587074

Subscription : Azure subscription 1

Resource group : Lab2-rg

Start time :

Correlation ID : da440237-7038-4712-960a-75ed11301955

> Deployment details

< Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Deployment succeeded

Deployment 'vnet1-1743246587074' to resource group 'Lab2-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 >

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Task 2: Create two virtual machines

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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](#)








 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 *  
Resource group *  
[Create new](#)

Instance details

Virtual machine name *  
Region *  
Availability options  
Zone options  ☒ Self-selected zone
Choose up to 3 availability zones, one VM per zone
[View selected zone \(Preview\)](#)










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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](#)

Network interface

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

Virtual network *  
[Create new](#)
Subnet *  
[Manage subnet configuration](#)
Public IP  
[Create new](#)
NIC network security group  ☐ None
☒ Basic
☐ Advanced
Public inbound ports *  ☐ None
☒ Allow selected ports
Select inbound ports * 

 This will allow all IP addresses to access your virtual machine. This is only

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Microsoft Azure

Upgrade

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Copilot

Home > Compute infrastructure | Virtual machines >

Create a virtual machine ...

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

1 X Standard B1s
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0.0140 USD/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

⚠ You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.

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Create

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Copilot

arali.devops@outlook.c...
DEFAULT DIRECTORY (ANALDEV...

Home >

CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250329161042 | Overview ...

Deployment

Search

DeleteCancelRedeployDownloadRefresh

OverviewInputsOutputsTemplate

✓ Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe...
Subscription: Azure subscription 1
Resource group: Lab2-rg

Start time: 3/29/2025, 4:13:57 PM
Correlation ID: 249f1b68-ca9d-40c5-82d2-22c5c1322997

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 resourceCreate another VM

Give feedback
Tell us about your experience with deployment

Deployment succeeded

Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250329161042' to resource group 'Lab2-rg' was successful.

Go to resourcePin to dashboard

Cost Management

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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

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 subscription 1

Resource group * ⓘ

Lab2-rg

Create new

Instance details

Virtual machine name * ⓘ

vm2

✓

Region * ⓘ

(US) East US

▼

Availability options ⓘ

Availability zone

▼

Zone options ⓘ

☒ Self-selected zone

Choose up to 3 availability zones, one VM per zone

☐ Azure-selected zone (Preview)

Let Azure assign the best zone for your needs

☐ Using an Azure-selected zone is not supported in region 'East US'.

Availability zone * ⓘ

Zone 2

▼

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Review + create

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

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 * ⓘ

vnet1

Create new

Subnet * ⓘ

default (10.0.0.0/24)

Manage subnet configuration

Public IP ⓘ

(new) vm2-ip

Create new

NIC network security group ⓘ

☐ None

☒ Basic

☐ Advanced

Public inbound ports * ⓘ

☐ None

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Create a virtual machine ...

✓ Validation passed

Help me create a low cost VM

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Basics

Disks

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Management

Monitoring

Advanced

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⚠ You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.

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Create

CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250329161507 | Overview ⓘ ...

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe...

Subscription: Azure subscription 1

Resource group: Lab2-rg

Start time: 3/29/2025, 4:17:28 PM

Correlation ID: f2720d50-66d1-4b49-989c-9f44dc6ca63d

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

Cos

Get

pre

Set

Mic

Sec

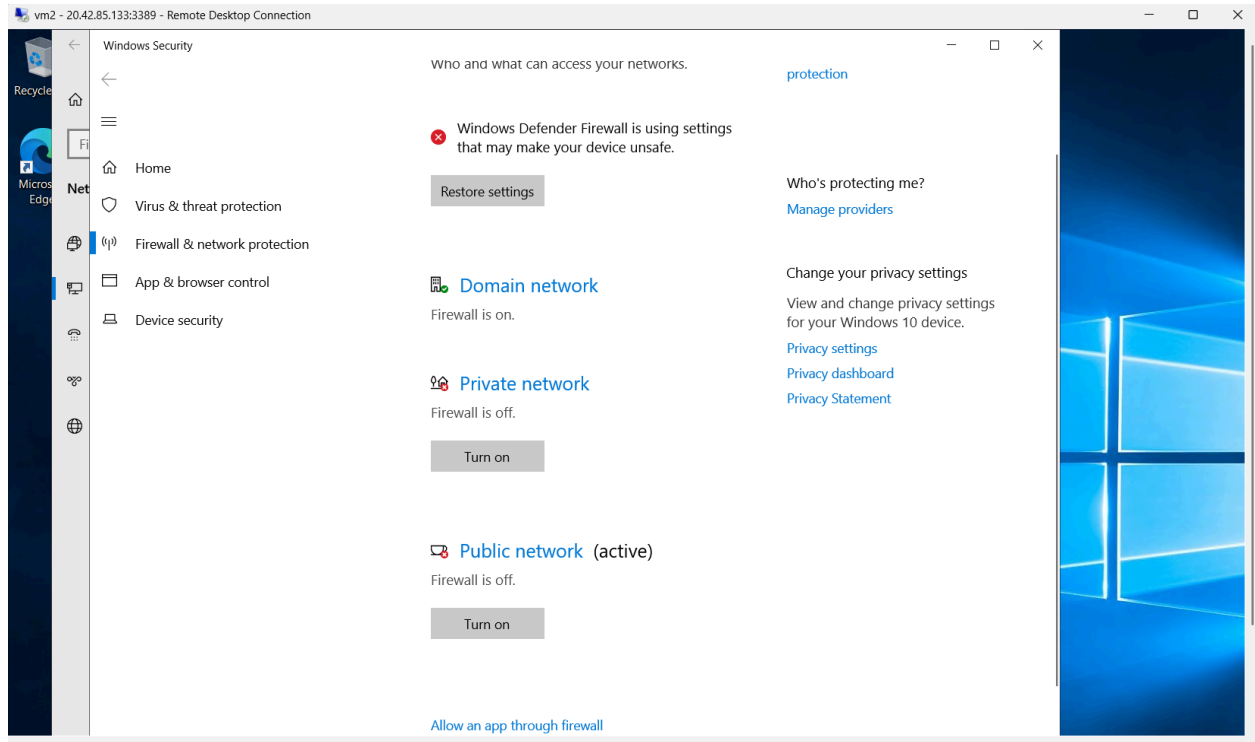
Go

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Task 3: Test the connection



vm2 - 20.42.85.133:3389 - Remote Desktop Connection

Administrator: Windows PowerShell

Windows PowerShell

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PS C:\Users\azureuser> ping vm1

Pinging vm1.1ddrnht0abtupnmjjhyo4a14gc.bx.internal.cloudapp.net [10.0.0.4] with 32 bytes of data:

Reply from 10.0.0.4: bytes=32 time=2ms TTL=128

Reply from 10.0.0.4: bytes=32 time=1ms TTL=128

Reply from 10.0.0.4: bytes=32 time=1ms TTL=128

Reply from 10.0.0.4: bytes=32 time=2ms TTL=128

Ping statistics for 10.0.0.4:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 1ms, Maximum = 2ms, Average = 1ms

PS C:\Users\azureuser>