

Task 01

Microsoft Azure

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

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DEFAULT DIRECTORY

All services > 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



Prerequisites



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) new_resource_group 
[Create new](#)

Instance details

Virtual machine name *  SimpleWinVM 

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 *  Windows Server 2019 Datacenter - x64 Gen2 
[See all images](#) | [Configure VM generation](#)

VM architecture  ☐ Arm64

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Next : Disks >

Review + create

 Give feedback

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All services > 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



Size *  Standard_D2s_v3 - 2 vcpus, 8 GiB memory (\$137.24/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



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 

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Create a virtual machine

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Help me create a low cost VM

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Help me choose the right VM size for my workload

Subnet *

(new) default (10.0.0.0/24)

Public IP

Create new

NIC network security group

None

Basic

Advanced

⚠ All ports on this virtual machine may be exposed to the public internet. This is a security risk. Use a network security group to limit public access to specific ports. You can also select a subnet that already has network security groups defined or remove the public IP address.

Delete public IP and 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

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Create a virtual machine

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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

Configure monitoring options for your VM.

Alerts

Enable recommended alert rules

Diagnostics

Boot diagnostics

Enable with managed storage account (recommended)

Enable with custom storage account

Disable

Enable OS guest diagnostics

Health

Enable application health monitoring

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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

Management

Microsoft Defender for Cloud

Basic (free)

System assigned managed identity

Off

Login with Microsoft Entra ID

Off

Auto-shutdown

Off

Backup

Disabled

Site Recovery

Disabled

Enable periodic assessment

Off

Enable hotpatch

Off

Patch orchestration options

OS-orchestrated patching: patches will be installed by OS

Monitoring

Alerts

Off

Boot diagnostics

Off

Enable OS guest diagnostics

Off

Enable application health monitoring

Off

< Previous

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Create

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Deployment

CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250406155347 | ...

Overview

Inputs

Outputs

Template

Search

Delete Cancel Redeploy Download Refresh

✓ Your deployment is complete

Deployment name: CreateVm-Micro... Start time: 4/6/2025, 4...
Subscription: Azure for Students Correlation ID: c1395718-
Resource group: new_resource_group

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

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

Start learning today >

Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >

Notifications

More events in the activity log → Dismiss all

Deployment succeeded

Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250406155347' to resource group 'new_resource_group' was successful.

Go to resource Pin to dashboard

a few seconds ago

https://portal.azure.com/#blade/Microsoft_Azure_ActivityLog/ActivityLogBlade?query=inputs%7B%22user%3A%240me%24%7D

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Virtual machine

SimpleWinVM

Search

SimpleWinVM virtual machine agent status is not ready. Troubleshoot the issue →

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Connect

Networking

Settings

Availability + scale

Security

Backup + disaster recovery

Operations

Monitoring

Automation

Help

Help me copy this VM in any region

Connect Start Restart Stop Hibernate Capture Delete Refresh

Essentials

Resource group (move)
new_resource_group

Status
Running

Location
East US

Subscription (move)
Azure for Students

Subscription ID
ea6fc9c7-fe32-4565-b42a-e336c72040d9

Tags (edit)
Add tags

Operating system
Windows

Size
Standard D2s v3 (2 vcpus, 8 GiB memory)

Public IP address
172.191.103.234

Virtual network/subnet
SimpleWinVM-vnet/default

DNS name
Not configured

Health state
-

Time created
4/6/2025, 11:01 AM UTC

JSON View

Properties Monitoring Capabilities (8) Recommendations Tutorials

Notifications

More events in the activity log → Dismiss all

Deployment succeeded

Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250406155347' to resource group 'new_resource_group' was successful.

Go to resource Pin to dashboard

a few seconds ago

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Virtual machine

SimpleWinVM | Network settings

Search

This is a new experience. Please provide feedback

List all my network interfaces for SimpleWinVM. What are the requirements for attaching or detaching a network interface?

Attach network interface Detach network interface View topology Troubleshoot Refresh Give feedback

Network interface / IP configuration
simplewinvm18 (primary) / ipconfig1 (primary)

Essentials

Network interface : simplewinvm18

Virtual network / subnet : SimpleWinVM-vnet / default

Public IP address : 172.191.103.234

Private IP address : 10.0.0.4

Admin security rules : 0 (Configure)

Load balancers : 0 (Configure)

Application security gro... : 0 (Configure)

Network security group : -

Accelerated networking : Enabled

Effective security rules : 0

No port rules to display

Task 02

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All services > Network security groups >

Create network security group

Basics Tags Review + create

Project details

Subscription * Azure for Students

Resource group * new_resource_group
[Create new](#)

Instance details

Name * myNSGSecure

Region * East US

[Review + create](#) < Previous Next: Tags > Download a template for automation

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All services > Network security groups >

Create network security group

Validation passed

Basics Tags Review + create

Basics

Subscription Azure for Students

Resource group new_resource_group

Region East US

name myNSGSecure

Tags

None

[Create](#) < Previous Next > Download a template for automation

Microsoft Azure

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All services >

Microsoft.NetworkSecurityGroup-20250406162202 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name : Microsoft.NetworkSecurityGroup-20250406162202

Subscription : Azure for Students

Resource group : new_resource_group

Start time :

Correlation ID : 7065c807-6516-4c15-a68d-a57fe12c3505

Deployment details

Next steps

[Go to resource](#)

Give feedback

[Tell us about your experience with deployment](#)

Cost management

Get notified to stay within your budget and prevent unexpected charges on your bill.

Notifications

More events in the activity log → Dismiss all

Deployment succeeded

Deployment 'Microsoft.NetworkSecurityGroup-20250406162202' to resource group 'new_resource_group' was successful.

[Go to resource](#) [Pin to dashboard](#)

a few seconds ago

Deployment succeeded

Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250406155347' to resource group 'new_resource_group' was successful.

[Go to resource](#) [Pin to dashboard](#)

25 minutes ago

Associate network interface

myNSGSecure

Network interface associations * ⓘ

simplewinvm18

OK

Notifications

More events in the activity log → Dismiss all ▾

... Saving network interface Running ×

Saving network security group for network interface 'simplewinvm18'.

a few seconds ago

✓ Deployment succeeded ×

Deployment 'Microsoft.NetworkSecurityGroup-20250406162202' to resource group 'new_resource_group' was successful.

Go to resource Pin to dashboard

a minute ago

✓ Deployment succeeded ×

Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250406155347' to resource group 'new_resource_group' was successful.

Go to resource Pin to dashboard

26 minutes ago

Microsoft Azure

Search resources, services, and docs (G+)

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myNSGSecure | Network interfaces

Network security group

Search

Associate Refresh Dissociate

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Settings

Inbound security rules

Outbound security rules

Network interfaces

Subnets

Properties

Locks

Monitoring

Automation

Help

Search network interfaces

Name ↑↓	Public IP address ↑↓	Private IP address ↑↓	Virtual machine ↑↓
simplewinvm18	172.191.103.234	10.0.0.4	SimpleWinVM

Give feedback

Notifications

More events in the activity log → Dismiss all ▾

✓ Saved network interface ×

Successfully saved network security group for network interface 'simplewinvm18'.

a few seconds ago

✓ Deployment succeeded ×

Deployment 'Microsoft.NetworkSecurityGroup-20250406162202' to resource group 'new_resource_group' was successful.

Go to resource Pin to dashboard

2 minutes ago

✓ Deployment succeeded ×

Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250406155347' to resource group 'new_resource_group' was successful.

Go to resource Pin to dashboard

27 minutes ago

Task 3

Microsoft Azure

Search resources, services, and docs (G+)

Dashboard > SimpleWinVM

SimpleWinVM | Connect

Virtual machine

Search

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Resource visualizer
- Connect

Connecting using **Public IP address** | 172.191.103.234

Admin username: azureuser
Port: 3389 [Check access](#)
Just-in-time policy: Unsupported by plan

Remote Desktop Connection

Remote Desktop can't connect to the remote computer for one of these reasons:

- 1) Remote access to the server is not enabled
- 2) The remote computer is turned off
- 3) The remote computer is not available on the network

Make sure the remote computer is turned on and connected to the network, and that remote access is enabled.

See details OK

Most common

Native RDP

Connect via native RDP without any additional software needed. Recommended for testing only.

Public IP address (172.191.103.234)

Select Download RDP file

Downloads

SimpleWinVM.rdp

Open file

See more

Dismiss all

- Saved network interface**
Successfully saved network security group for network interface 'simplewinvm18'.
11 minutes ago
- Deployment succeeded**
Deployment 'Microsoft.NetworkSecurityGroup-20250406162202' to resource group 'new_resource_group' was successful.
[Go to resource](#) [Pin to dashboard](#)
13 minutes ago
- Deployment succeeded**
Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250406155347' to resource group 'new_resource_group' was successful.
[Go to resource](#) [Pin to dashboard](#)
37 minutes ago

Microsoft Azure

Search resources, services, and docs (G+)

Dashboard > SimpleWinVM

SimpleWinVM | Network settings

Virtual machine

Search

- Windows Admin Center
- Networking
- Network settings
- Load balancing
- Application security groups
- Network manager
- Settings
- Disks
- Extensions + applications
- Operating system
- Configuration
- Advisor recommendations
- Properties
- Locks
- Availability + scale
- Security

This is a new experience. [Please provide feedback](#)

List all my network interfaces for SimpleWinVM. What are the requirements for attaching or detaching a network interface? How can I make my virtual machine secure?

Attach network interface Detach network interface View topology Troubleshoot Refresh

Network interface / IP configuration

simplewinvm18 (primary) / ipconfig1 (primary)

Essentials

Network interface	Load balancers
simplewinvm18	0 (Configure)
Virtual network / subnet	Application security groups
SimpleWinVM-vnet / default	0 (Configure)
Public IP address	Network security group
172.191.103.234	myNSGSecure
Private IP address	Accelerated networking
10.0.0.4	Enabled
Admin security rules	Effective security rules
0 (Configure)	0

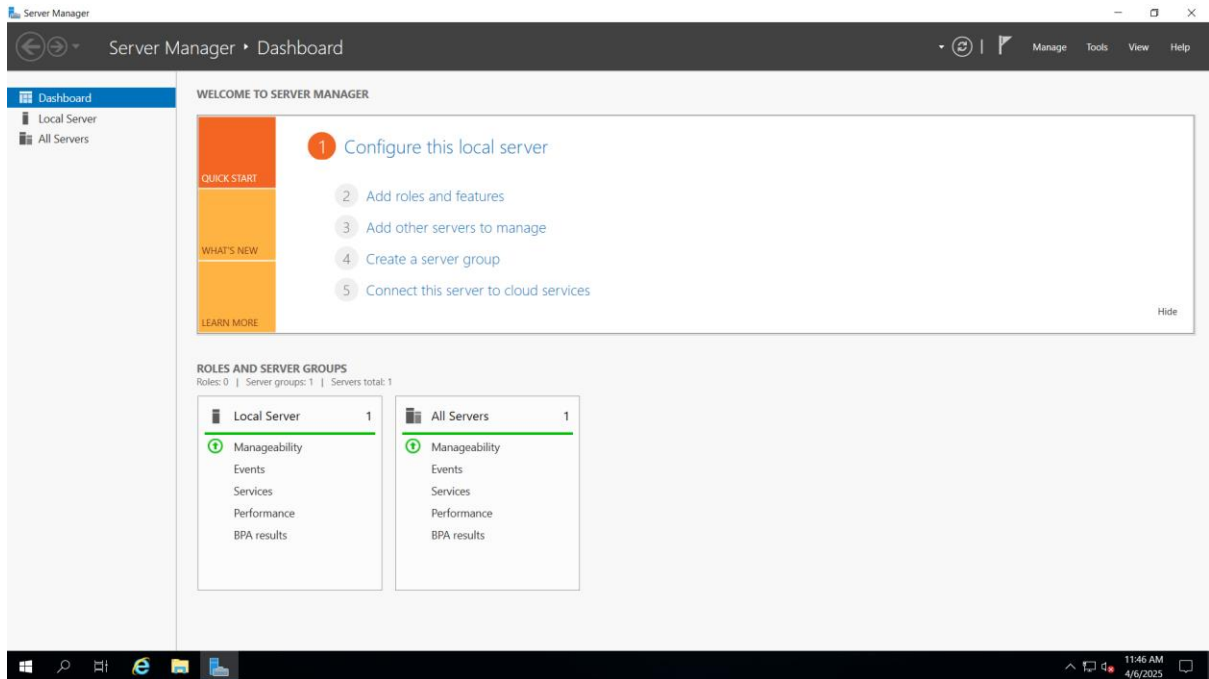
Rules [Collapse all](#)

Notifications

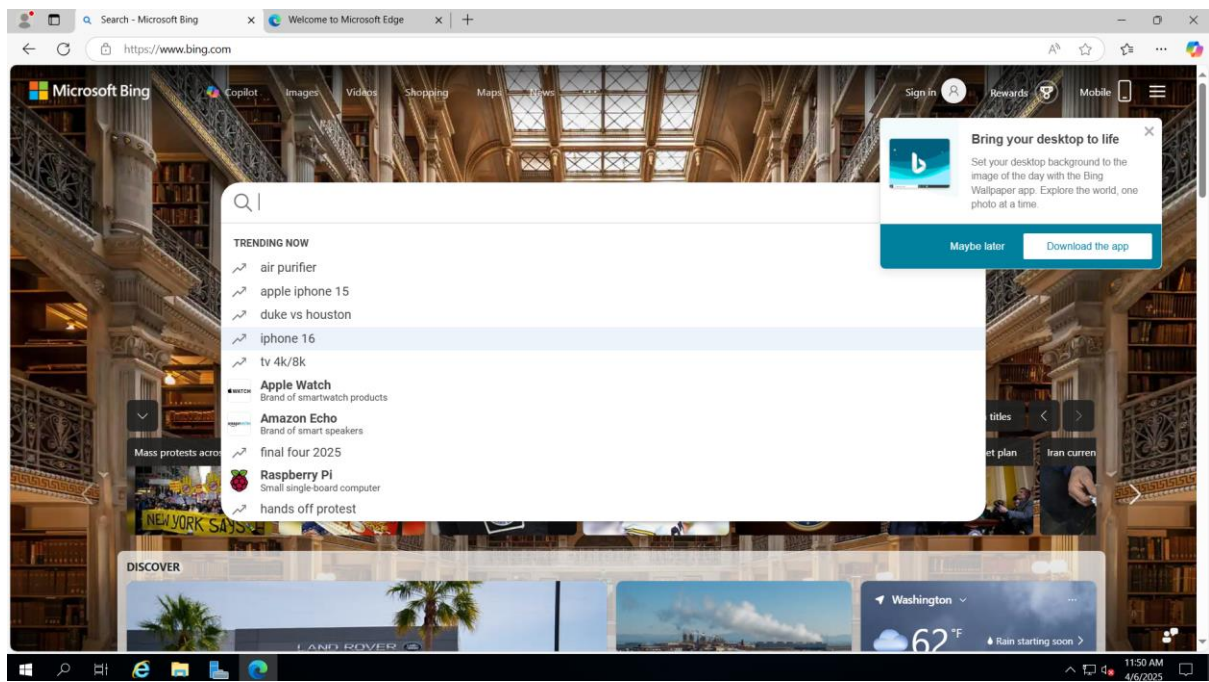
More events in the activity log →

Dismiss all

- Created security rule**
Successfully created security rule 'AllowRDP'.
a few seconds ago
- Saved network interface**
Successfully saved network security group for network interface 'simplewinvm18'.
15 minutes ago
- Deployment succeeded**
Deployment 'Microsoft.NetworkSecurityGroup-20250406162202' to resource group 'new_resource_group' was successful.
[Go to resource](#) [Pin to dashboard](#)
17 minutes ago
- Deployment succeeded**
Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250406155347' to resource group 'new_resource_group' was successful.
[Go to resource](#) [Pin to dashboard](#)
41 minutes ago



Task 4



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SimpleWinVM | Network settings

Virtual machine

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Connect

Networking

Network settings

Load balancing

Application security groups

Network manager

Settings

Disks

Extensions + applications

Operating system

Configuration

Rules

Collapse all

Network security

simplewinvm18

Impacts 0 subnets

Search rules

Priority ↑

Inbound port rule

300

65000

65001

65500

Outbound port rule

Add outbound security rule

myNSGSecure

Destination port ranges *

Protocol

Any

TCP

UDP

ICMPv4

Action

Allow

Deny

Priority *

4000

Name *

DenyInternet

Description

Add

Cancel

Give feedback

Notifications

More events in the activity log →

Dismiss all

Created security rule

Successfully created security rule 'AllowRDP'.

15 minutes ago

Saved network interface

Successfully saved network security group for network interface 'simplewinvm18'.

30 minutes ago

Deployment succeeded

Deployment 'Microsoft.NetworkSecurityGroup-20250406162202' to resource group 'new_resource_group' was successful.

Go to resource

Pin to dashboard

32 minutes ago

Deployment succeeded

Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250406155347' to resource group 'new_resource_group' was successful.

Go to resource

Pin to dashboard

56 minutes ago

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SimpleWinVM | Network settings

Virtual machine

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

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Load balancing

Application security groups

Network manager

Settings

Disks

Extensions + applications

Operating system

Configuration

Network interface / IP configuration

simplewinvm18 (primary) / ipconfig1 (primary)

Essentials

Network interface

simplewinvm18

Virtual network / subnet

SimpleWinVM-vnet / default

Public IP address

172.191.103.234

Private IP address

10.0.0.4

Admin security rules

0 (Configure)

Load balancers

0 (Configure)

Application security groups

0 (Configure)

Network security group

myNSGSecure

Accelerated networking

Enabled

Effective security rules

0

Rules

Collapse all

Notifications

More events in the activity log →

Dismiss all

Created security rule

Successfully created security rule 'DenyInternet'.

a few seconds ago

Created security rule

Successfully created security rule 'AllowRDP'.

15 minutes ago

Saved network interface

Successfully saved network security group for network interface 'simplewinvm18'.

30 minutes ago

Deployment succeeded

Deployment 'Microsoft.NetworkSecurityGroup-20250406162202' to resource group 'new_resource_group' was successful.

Go to resource

Pin to dashboard

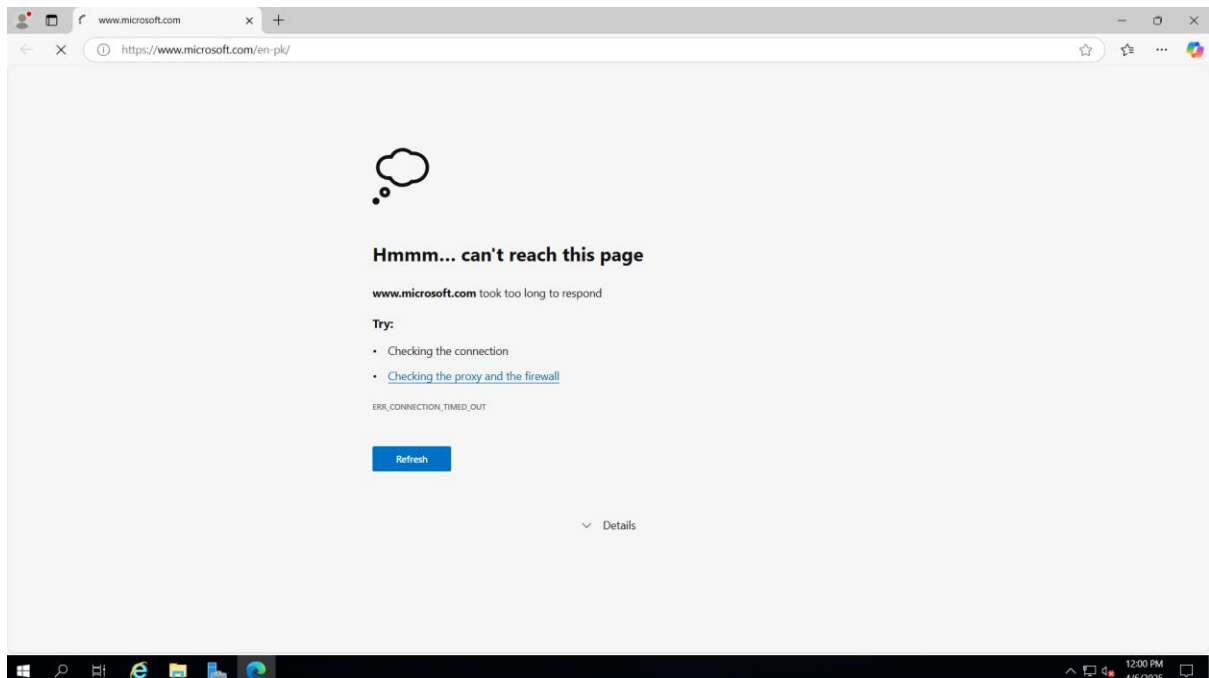
32 minutes ago

Deployment succeeded

Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20250406155347' to resource group 'new_resource_group' was successful.

Go to resource

Pin to dashboard



Microsoft Azure

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Dashboard >


Resource groups

Default Directory

+ Create Manage view Refresh Export to CSV Open query Assign tags Group by none

You are viewing a new version of Browse experience. Some features may be missing. Click here to access the old experience.

Filter for any field... Subscription equals all Location equals all + Add filter



No resource groups to display

Resource groups provide a logical container to manage and organize Azure resources, simplifying administration and enabling efficient resource management.

Create

[Learn more](#)

Showing 1 - 0 of 0. Display count: 10

[Give feedback](#)

Notifications

More events in the activity log → Dismiss all

- Deleted resource group new_resource_group**
Deleted resource group new_resource_group
3 minutes ago
- Deleted resource group NetworkWatcherRG**
Deleted resource group NetworkWatcherRG
4 minutes ago
- Created security rule**
Successfully created security rule 'DenyInternet'.
8 minutes ago
- Created security rule**
Successfully created security rule 'AllowRDP'.
24 minutes ago
- Saved network interface**
Successfully saved network security group for network interface 'simplewinm18'.
39 minutes ago
- Deployment succeeded**
Deployment 'Microsoft.NetworkSecurityGroup-20250406162202' to resource group 'new_resource_group' was successful.