

Azure Cloud Computing Report

1. Deploying a VM

1.1. Authorized via Lab Credentials

696-1ef35ddf-deploying-and-running-your-first-azur

No resources match your filters

Try changing or clearing your filters.

+ Create Clear filters

1.2. Creating and configuring a VM following lab instructions

Help me create a VM optimized for high availability

Help me choose the right VM size for my workload

Help me create a low cost VM

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](#)

Project details

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

Subscription * P8-Real Hands-On Labs

Resource group * 696-1ef35ddf-deploying-and-running-your-first-azur

< Previous Next : Disks > Review + create Give feedback

Help me create a VM optimized for high availability

Help me choose the right VM size for my workload

Help me create a low cost VM

Virtual machine name * myfirstvm

Region * (US) South Central US

Availability options Availability zone

Zone options Self-selected zone

< Previous Next : Disks > Review + create Give feedback

Create a virtual machine

⚠️ Changing Basic options may reset selections you have made. Review all options prior to creating the 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 Help me create a low cost VM

Security type: Standard

Image: Datacenter with Windows Server 2019 - Gen 2 - x64 Gen2
See all images | Configure VM generation

VM architecture: x64 Arm64
Arm64 is not supported with the selected image.

Run with Azure Spot discount:

Size: Standard_D2s_v3 - 2 vcpus, 8 GiB memory (\$210.97/month)
See all sizes

< Previous Next : Disks > **Review + create** Give feedback

Password for access to our VM in future labs

Create a virtual machine

⚠️ Changing Basic options may reset selections you have made. Review all options prior to creating the 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 Help me create a low cost VM

Administrator account

Username: vasylyshnyuri
Password:
Confirm password:
All fields are marked with a green checkmark.

Licensing

Save up to 49% with a license you already own using Azure Hybrid Benefit. [Learn more ↗](#)

Would you like to use an existing Windows Server license?

[Review Azure hybrid benefit compliance ↗](#)

< Previous Next : Disks > **Review + create** Give feedback

Premium SSD Selected

Create a virtual machine

⚠️ Changing Basic options may reset selections you have made. Review all options prior to creating the 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 Help me create a low cost VM

OS disk

OS disk size: Image default (127 GiB)
OS disk type: Premium SSD (locally-redundant storage)
Delete with VM:
Key management: Platform-managed key
Enable Ultra Disk compatibility:

Data disks for myfirstvm

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

ID	Name	Size (GiB)	Disk type	Host caching	Delete with VM

< Previous Next : Networking > **Review + create** Give feedback

Create a virtual machine

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

Network interface

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

Virtual network	(New) vnet-southcentralus (696-1ef35ddf-deploying-and-running-your-first...)
Subnet *	(New) snet-southcentralus-1 Edit subnet 172.16.0.0 - 172.16.0.255 (256 addresses)
Public IP	(new) myfirstvm-ip Create new
NIC network security group	<input type="radio"/> None <input type="radio"/> Basic <input checked="" type="radio"/> Advanced

This VM image has preconfigured NSG rules

< Previous Next : Management > Review + create Give feedback

Create a virtual machine

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

Help me create a low cost VM

Delete public IP and NIC when VM is deleted

Enable accelerated networking The selected image does not support 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	<input checked="" type="radio"/> None <input type="radio"/> Azure load balancer <input type="radio"/> Application gateway
------------------------	---

The selected image does not support accelerated networking.

< Previous Next : Management > Review + create Give feedback

Creating:

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

Region	South Central US
Availability options	Availability zone
Zone options	Self-selected zone
Availability zone	1
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Image	Windows Server 2025 Datacenter - Gen2
VM architecture	x64
Size	Standard D2s v3 (2 vcpus, 8 GiB memory)
Enable Hibernation	No

< Previous Next > Create Download a template for automation Give feedback

Deployment successful:

The screenshot shows the Microsoft Azure Overview page for a deployment named "CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251201174038". The status is "Your deployment is complete". Deployment details include a name, subscription, resource group, start time (12/1/2025, 5:41:42 PM), and correlation ID (1bf0b201-f322-479a-bfe). A sidebar on the right provides links to Cost Management, Microsoft Defender for Cloud, and Free Microsoft tutorials.

Deployed VM:

The screenshot shows the Microsoft Azure Overview page for a virtual machine named "myfirstvm". The essentials section displays the following details: Resource group (move) 696-1ef35ddf-deploying-and-running-your-first-azur, Status (Running), Location (South Central US (Zone 1)), Subscription (move) P8-Real Hands-On Labs, Subscription ID 9734ed68-621d-47ed-babd-269110dbacb1, Availability zone 1, Operating system Windows (Windows Server 2025 Datacenter), Size Standard D2s v3 (2 vcpus, 8 GiB memory), Primary NIC public IP 20.65.144.140, 1 associated public IPs, Virtual network/subnet vnet-southcentralus/snet-southcentralus-1, DNS name Not configured, Health state -, and Time created 12/1/2025 2:42 PM UTC.

Connected successfully!

The screenshot shows the Server Manager Dashboard and a browser window. The Server Manager dashboard displays the "WELCOME TO SERVER MANAGER" screen with a "Configure this local server" step and a "QUICK START" button. The browser window shows a successful connection to "myfirstvm - 20.65.144.140:3389 - підключення до віддаленого робочого стола".



Stopping VM:

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with "Microsoft Azure", a search bar, and user information. Below it, the URL is "Home > CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251201174038 | Overview >".

The main area displays a "myfirstvm" virtual machine card with options to "Help me copy this VM in any region" and "Manage this VM with Azure CLI".

A modal dialog box is open, titled "Stop this virtual machine", asking "Do you want to stop 'myfirstvm'?". It includes a note: "Deallocation operations usually complete within 1-2 minutes but may take up to 90 minutes in some cases. You can leave the page and track the progress via notifications." Two buttons are present: "Yes" (highlighted) and "No".

To the right of the modal, detailed information about the VM is listed:

- Location: South Central US (Zone 1)
- Primary NIC public IP: 20.65.144.140
- Subscription (move): 1 associated public IPs
- Virtual network/subnet: vnet-southcentralus/snet-southcentralus-1
- Subscription ID: 9734ed68-621d-47ed-babd-269110dbacb1
- DNS name: Not configured
- Availability zone: 1
- Health state: -
- Time created: [unclear]

myfirstvm Virtual machine

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Connect

Windows Admin Center

Networking

Settings

Help me copy this VM in any region

Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile Feedback

Essentials

Resource group (move) 696-1ef35ddf-deploying-and-running-your-first-azur

Status Stopped (deallocated)

Location South Central US (Zone 1)

Subscription (move) P8-Real Hands-On Labs

Subscription ID 9734ed68-621d-47ed-babd-269110dbacb1

Availability zone 1

Operating system Windows

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

Primary NIC public IP 20.65.144.140

1 associated public IPs

Virtual network/subnet vnet-southcentralus/snet-southcentralus-1

DNS name Not configured

Health state -

Time created

JSON View

Microsoft Certified: Azure Fundamentals (AZ-900) Report

Lab 1

Exploring azure portal

Signing to Azure portal and Navigating

Home >

1263-ab8611b8-exploring-the-azure-portal-and-core Resource group

Search

Create Manage view Delete resource group Refresh Export to CSV Open query Group by none

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Cost Management

Monitoring

Automation

Help

Essentials

Resources Recommendations

Name Type Location

Name	Type	Location
lab-vm	Virtual machine	South Central US
lab-vm_disk1_2616d84ddd5a4c4c968c04f779237c68	Disk	South Central US
nicxg5pwp6rpr42g	Network Interface	South Central US
nsgxg5pwp6rpr42g	Network security group	South Central US
pipxg5pwp6rpr42g	Public IP address	South Central US
stxg5pwp6rpr42g	Storage account	South Central US
vnetxg5pwp6rpr42g	Virtual network	South Central US

Microsoft Azure

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

Copilot

cloud_user_p_382ce076... PLURALSIGHT CLOUD (REALHAN...)

Azure services

- Create a resource
- Quickstart Center
- Foundry
- Kubernetes services
- Virtual machines

Resources

Recent Favorite

Name	Type
1263-ab8611b8-exploring-the-azure-portal-and-core	Resource

See all

Navigate

- Subscriptions
- Resource groups
- All resources
- Dashboard

https://portal.azure.com/#blade/Microsoft_Azure_ComputeHub/ComputeHubMenuBlade/virtualMachinesBrowse

Virtual machines

+ Create View

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

Learn more with Copilot

Free training from Microsoft
Introduction to Azure virtual machines 8 units · 1 hr 7 min

Create a Windows virtual machine in Azure ...

Exploring marketplace

Microsoft Azure

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

Copilot

cloud_user_p_382ce076... PLURALSIGHT CLOUD (REALHAN...)

Home > Marketplace

Marketplace

Get Started

Service Providers

Search with AI

Management

Private Marketplace

Private Offer Management

My Marketplace

Favorites

My solutions

Recently created

Private plans

UNISYS | Securing Your Tomorrow™

Unisys Corp / Blue Bell

Reston VA US

Softchoice

Softchoice

New York NY US

enso®

Ensoso

Downers Grove IL US

3Cloud

3Cloud, LLC

Downers Grove IL US

hanu™

Insight

Princeton NJ US

CLOUD4C

Cloud4C Services Inc

New York NY US

Is Marketplace helpful?

Customizing Dashboard

Microsoft Azure

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

Copilot

cloud_user_p_382ce076... PLURALSIGHT CLOUD (REALHAN...)

My Dashboard

+ Add tiles

You can resize, move, edit tiles, or add tiles to your dashboard.

Get access to an improved dashboard experience and new mobile presence. Try it now

Resource groups

All subscriptions

Refresh

1263-ab8611b8-exploring-the-azure-port... South Central US

FLE Standard Time

1:52 AM

Wednesday, December 3, 2025

Metrics chart

100

90

80

70

60

50

40

30

20

10

Edit in Metrics

Edit clock

Location:

Time format: 12 hour 24 hour

Done Reset

Lab 2

VM Deploying

Configuring VM

Basics

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](#) [Help me create a low cost VM](#)

X

[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

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](#)

Project details

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

Subscription * ⓘ

P4-Real Hands-On Labs

Resource group * ⓘ

1275-6d48fa28-deploying-a-virtual-machine-using-th

[Create new](#)

Instance details

[< Previous](#) [Next : Disks >](#) [Review + create](#)

[Give feedback](#)

Home > Compute infrastructure | 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](#) [Help me create a low cost VM](#)

X

[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-lab

Region * ⓘ

(US) West US

[Deploy to an Azure Extended Zone](#)

Availability options ⓘ

No infrastructure redundancy required

Security type ⓘ

Trusted launch virtual machines

[Configure security features](#)

Image * ⓘ

Windows Server 2025 Datacenter: Azure Edition - x64 Gen2

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

VM architecture ⓘ

Arm64

x64

[< Previous](#) [Next : Disks >](#) [Review + create](#)

[Give feedback](#)

Microsoft Azure [Search resources, services, and docs \(G+\)](#)

Copilot



cloud_user_p_7f6add65...
PLURALSIGHT CLOUD (REALHAN...)



Home > Compute infrastructure | 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](#) [Help me create a low cost VM](#)

X

[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](#)

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 * Ⓢ

RDP (3389)

[< Previous](#) [Next : Disks >](#) [Review + create](#)

[Give feedback](#)

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

Home > Compute infrastructure | Virtual machines >

Create a virtual machine

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 * RDP (3389)

⚠️ This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Licensing

Save up to 49% with a license you already own using Azure Hybrid Benefit. [Learn more](#)

< Previous | Next : Disks > | Review + create | Give feedback

Disk

Home > Compute infrastructure | Virtual machines >

Create a virtual machine

VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host

OS disk

OS disk size Image default (127 GiB)

OS disk type * Premium SSD (locally-redundant storage)

Delete with VM

Key management Platform-managed key

< Previous | Next : Networking > | Review + create | Give feedback

Home > Compute infrastructure | Virtual machines >

Create a virtual machine

Data disks for vm-lab

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

LUN	Name	Size (GiB)	Disk type	Host caching	Delete with VM
					<input type="checkbox"/>

Create and attach a new disk | Attach an existing disk

< Advanced

< Previous | Next : Networking > | Review + create | Give feedback

Networking

Create a virtual machine

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



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

Help me create a low cost VM

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 !\[\]\(e11f4c47008b23dfe2f4f7c6bb9034d1_img.jpg\)](#)

Network interface

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

Virtual network (New) vnet-westus (1275-6d48fa28-deploying-a-virtual-machine-using-th) [Edit virtual network](#)Subnet * (New) snet-westus-1 [Edit subnet](#)

172.16.0.0 - 172.16.0.255 (256 addresses)

Public IP [Create new](#)< PreviousNext : Management >Review + create[Give feedback](#)

Create a virtual machine

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



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

Help me create a low cost VM

NIC network security group  None Basic AdvancedPublic inbound ports *  None Allow selected ports

Select inbound ports *

RDP (3389) 

 **This will allow all IP addresses to access your virtual machine.** This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Delete public IP and NIC when VM is deleted < PreviousNext : Management >Review + create[Give feedback](#)

Copilot

cloud_user_p_7f6add65...
PLURALSIGHT CLOUD (REALHAN...)

Create a virtual machine

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



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

Help me create a low cost VM

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 !\[\]\(52dcfd62b0f0fd3c4ca47519dbe5b318_img.jpg\)](#)

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.

< PreviousNext : Management >Review + create[Give feedback](#)

Creating a VM

Deployment Completed

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

Copilot | Home > CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251203033829 | Overview

Deployment

Search | Delete | Cancel | Redeploy | Download | Refresh

Overview

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.... Start time: 12/3/2025, 3:43:54 AM
Subscription: P4-Real Hands-On Labs Correlation ID: af283e7e-c581-40b8-ae...
Resource group: 1275-6d48fa28-deploying-a-virtual-ma...

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

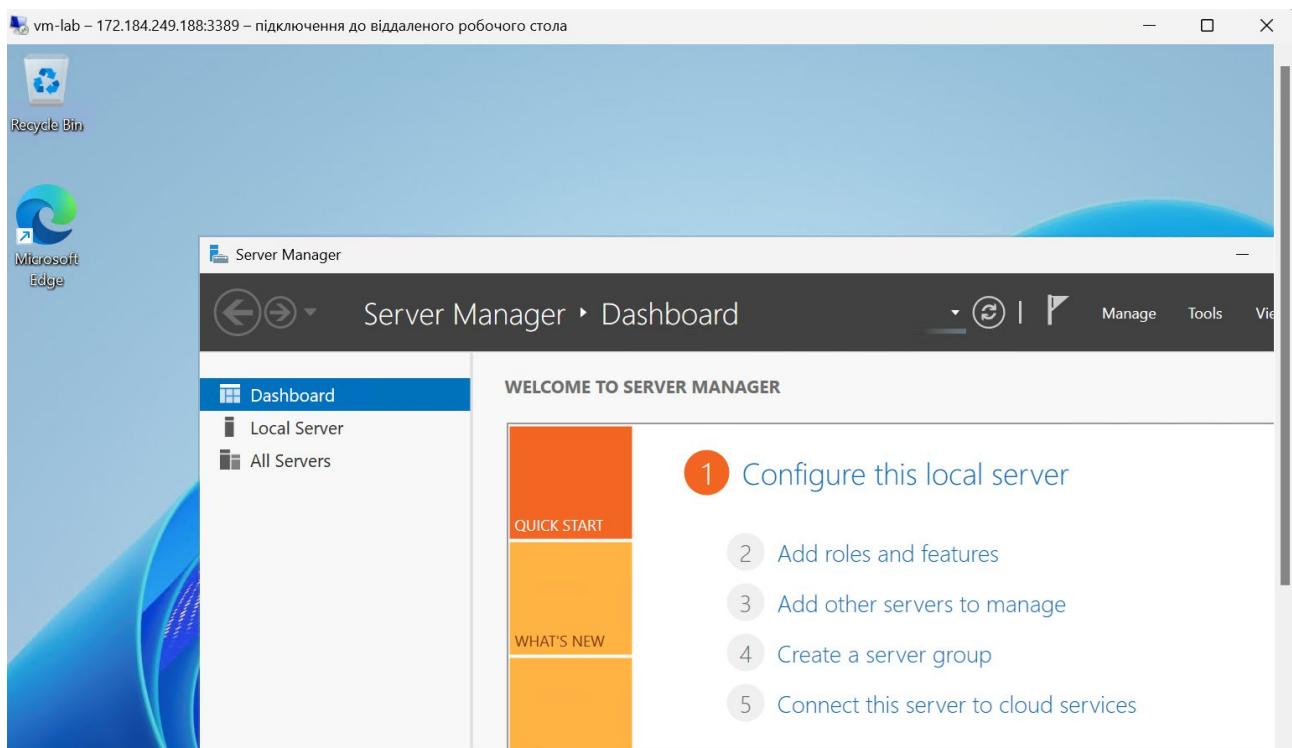
Give feedback | Tell us about your experience with deployment

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 >

Lets connect to our VM via RDP



Connected!

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

Copilot Help me copy this VM in any region Manage this VM with Azure CLI

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251203033829 | Overview

vm-lab Virtual machine

Search Help me copy this VM in any region

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Resource visualizer Connect Networking Settings Availability + scale Security Backup + disaster recovery

Help me copy this VM in any region

Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile Feedback

JSON View

Essentials

Resource group ([move](#)) [1275-6d48fa28-deploying-a-virtual-machine-using-th](#) Operating system Windows

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

Location West US Primary NIC public IP [172.184.249.188](#)

Subscription ([move](#)) [P4-Real Hands-On Labs](#) 1 associated public IPs

Subscription ID [0fce2870-d256-4119-b0a3-16293ac11bdc](#) Virtual network/subnet [vnet-westus/snet-westus-1](#)

DNS name [Not configured](#) Health state -

Time created [2025-12-03T03:38:29Z](#)

Add or remove favorites by pressing [Ctrl+Shift+F](#)

Stopped

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

Copilot Help me copy this VM in any region

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-202

vm-lab Virtual machine

Search Help me copy this VM in any region

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Resource visualizer Connect Networking Settings Availability + scale Security Backup + disaster recovery

Help me copy this VM in any region

Connect Start

Not found

A cloud icon with a raindrop is displayed.

Not found

Get support Perform self-diagnostics

Summary

Session ID	Resource ID
2e5d6457b17644429fc42f945dd8adbc	/subscriptions/0fce2870-d256-4119-b0a3-16293ac11bdc...
Extension	Content
Microsoft_Azure_Compute	DeepDelete.ReactView
Error code	404

Deleted

Lab 3

Deploying a Vnet

Creating Virtual Network

Create virtual network



[Basics](#) [Security](#) [IP addresses](#) [Tags](#) [Review + create](#)

Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks. VNet is similar to a traditional network that you'd operate in your own data center, but brings with it additional benefits of Azure's infrastructure such as scale, availability, and isolation.

[Learn more.](#)

Project details

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

Subscription *

P5-Real Hands-On Labs

[Previous](#)

[Next](#)

[Review + create](#)

Give feedback

Added name v-net1

Home > Network foundation | Virtual networks >

Create virtual network



[Basics](#) [Security](#) [IP addresses](#) [Tags](#) [Review + create](#)

Resource group

[Create new](#)

Instance details

Virtual network name *

vnet-1

Region *

(US) East US

[Deploy to an Azure Extended Zone](#)

[Previous](#)

[Next](#)

[Review + create](#)

Give feedback

Changing address range

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

Home > Network foundation | Virtual networks >

Create virtual network

Basics Security IP addresses Tags Review + create

10.10.0.0/16 Delete address space

Subnets	IP address range	Size	NAT gateway
default	10.10.0.0 - 10.10.0.255	/24 (256 addresses)	-

Previous Next Review + create Give feedback

Editing default subnet

Search resources, services, and docs (G+) Copilot ...

Edit subnet

Subnet purpose Default

Name * subnet-a

IPv4

Include an IPv4 address space ✓

IPv4 address range 10.10.0.0/16
10.10.0.0 - 10.10.255.255

Starting address * 10.10.1.0

Size /24 (256 addresses)

Subnet address range 10.10.1.0 - 10.10.1.255

Save Cancel Give feedback

Creating a Virtual Network

Home > Network foundation | Virtual networks >

Create virtual network

X

Validation passed

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

[View automation template](#)

Basics

Subscription	P5-Real Hands-On Labs
Resource Group	1281-f156f0b0-deploying-a-virtual-network-and-subn
Name	vnet-1
Region	East US

[Previous](#)

[Next](#)

Create

[Download a template for automation](#)

Give feedback

Vnet deployed

Home > **vnet-1-1764774552618 | Overview**

Deployment

Search X << Delete Cancel Refresh Go to resource Pin to dashboard

Deployment succeeded

Deployment 'vnet-1-1764774552618' to resource group '1281-f156f0b0-deploying-a-virtual-network-and-subn' was successful.

✓ Your deployment is complete

Deployment name : vnet-1-1764774552618
Subscription : P5-Real Hands-On Labs
Resource group : 1281-f156f0b0-deploying-a-virtual-network-and-subn
Start time : 12/3/2025, 5:09:21 PM
Correlation ID : b7fd2e8d-f073-4a80-adc4-dd754acae4a2

> Deployment details

▽ Next steps

Go to resource

Add or remove favorites by pressing *Ctrl+Shift+F*

Adding another subnet

Microsoft Azure Search resources, services, and docs (G+/) Copilot ...

Home > vnet-1-1764774552618 | Overview > vnet-1

vnet-1 | Subnets

Virtual network

Search Tags Diagnose and solve problems Resource visualizer Settings Address space Connected devices Subnets Bastion DDoS protection Firewall Microsoft Defender for Add or remove favorites by pressing Ctrl+Shift+F

+ Subnet Refresh Manage users Delete Export to CSV

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	D
<input type="checkbox"/>	subnet-a	10.10.1.0/24	-	251	-

Showing 1 subnet

Give feedback

Add a subnet

Subnet purpose Default

Name * subnet-b

IPv4

Include an IPv4 address space

IPv4 address range 10.10.0.0/16
10.10.0.0 - 10.10.255.255

Starting address * 10.10.2.0

Size /24 (256 addresses)

Subnet address range 10.10.2.0 - 10.10.2.255

Add Cancel Give feedback

Added subnet-b

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

Home > vnet-1-1764774552618 | Overview > vnet-1

vnet-1 | Subnets

Virtual network

Search + Subnet Refresh Manage users Delete Export to CSV

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.

	Name ↑	IPv4	IPv6	Available IPs	D
<input type="checkbox"/>	subnet-a	10.10.1.0/24	-	251	-
<input type="checkbox"/>	subnet-b	10.10.2.0/24	-	251	-

Showing 2 subnets Give feedback

Microsoft Defender for... <https://portal.azure.com/#@realhandsonlabs.co...>

Associating NSG to the subnet

Creating NSG

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

Home > Network foundation | Network security groups >

Create network security group

Basics Tags Review + create

Project details

Subscription * P5-Real Hands-On Labs

Resource group * 1281-f156f0b0-deploying-a-virtual-network-and-subn Create new

Instance details

Name * NSG1

Region * West US

Review + create < Previous Next : Tags > Download a template for automation

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

Home > CreateNetworkSecurityGroupBladeV2-20251203171410 | Overview

Deployment

Search X < Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

✓ Your deployment is complete

Deployment name : CreateNetworkSecurityGroupBladeV2-20251203171410
Subscription : P5-Real Hands-On Labs
Resource group : 1281-f156f0b0-deploying-a-virtual-network-and-subn
Start time : 12/3/2025, 5:16:38 PM
Correlation ID : 4ae44eb2-da8a-4f6e-ad68-eab4c529a0af

> Deployment details

▽ Next steps

Go to resource

Give feedback https://portal.azure.com/#view/HubsExtension/Dep...

Associate subnet

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

Home > NSG1

NSG1 | Subnets Network security group

Search Access control (IAM) Tags Diagnose and solve problems Resource visualizer Settings Inbound security rules Outbound security rules Network interfaces Subnets Properties Locks

Associate subnet NSG1

Virtual network vnet-1 (1281-f156f0b0-deploying-a-virtual-network-and-subn)

Subnet * subnet-a

Filter subnets

Can be associated to network security group

subnet-a subnet-b

OK

NSG1 | Subnets Network security group

Search Associate

Access control (IAM) Tags Diagnose and solve problems Resource visualizer Settings

- Inbound security rules
- Outbound security rules
- Network interfaces
- Subnets**
- Properties
- Locks

Add or remove favorites by pressing **Ctrl+Shift+F**

Name	Address range	Virtual network	...
subnet-a	10.10.1.0/24	vnet-1	...

Give feedback

Adding NSG to subnet-b

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

Edit subnet

Enable private subnet (no default outbound access)

Security

Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. [Learn more](#)

NAT gateway [\(i\)](#) None

(i) A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway. [Learn more](#)

Network security group [\(i\)](#) NSG1

Route table None

Service Endpoints

Create service endpoint policies to allow traffic to specific azure resources from your virtual network over service endpoints. [Learn more](#)

Save **Cancel** Give feedback

vnet-1 | Subnets

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.

Name ↑	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table
subnet-a	10.10.0.0/24	-	251	-	NSG1	-
subnet-b	10.10.2.0/24	-	251	-	NSG1	-

Showing 2 subnets

As we can see, we have an NSG for subnet-a and subnet-b

Azure Foundations Report

Lab1

Deploy a Linux VM

Creating Your First Azure Linux VM

Create a virtual machine - Microsoft Azure - Chromium

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Create a virtual machine

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

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

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](#)

Project details

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

Subscription: P9-Real Hands-On Labs

Resource group: 1116-362bd717-creating-your-first-azure-linux-virt

Instance details

Virtual machine name: myfirstlinuxvm

Region: (US) South Central US

Availability options:

- Self-selected zone
- Azure-selected zone (Preview)

Zone options:

- Zone 1
- You can now select multiple zones. Selecting multiple zones will create one VM per zone. [Learn more](#)

Availability zone: Zone 1

< Previous Next : Disks > Review + create

choosing virtual network Vnet1 and subnet SUBNET1

Create a virtual machine - Microsoft Azure - Chromium
Creating Your First Azure Lin... Create a virtual machine - Microsoft Azure - Chromium
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure Search resources, services, and docs (G+) Copilot cloud_user_p_e875156e... PLURALIGHT CLOUD MEALHAN...
Home > Compute infrastructure | Virtual machines >
Create a virtual machine Help me choose the right VM size for my workload Help me create a VM optimized for high availability Help me create a low cost VM
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 (1116-362bd717-creating-your-first-azure-linux-virt)
Edit virtual network
Subnet * SUBNET1
Edit subnet 10.0.0.0 - 10.0.0.255 (256 addresses)
Public IP * (new) myfirstlinuvm-ip
Create new
NIC network security group None Basic Advanced
Public inbound ports * Allow selected ports
Select inbound ports SSH (22)
⚠️ This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.
Delete public IP and NIC when VM is deleted
Review + create Give feedback

VM deployed

CreateVm-RedHat.RHEL-94_gen2-20251203194243 - Microsoft Azure - Chromium
Creating Your First Azure Lin... CreateVm-RedHat.RHEL-94_gen2-20251203194243 - Microsoft Azure - Chromium
portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/-/overview/id%2Fsubscriptions%2F2Be1e42a-4c30-9a5f-7d7b488fd883%2FresourceGroups%2F1116-362bd717-creating-your-first-azure-linux-virt%2Fproviders%2FMicrosoft...
Microsoft Azure Search resources, services, and docs (G+) Copilot cloud_user_p_e875156e... PLURALIGHT CLOUD MEALHAN...
Home > CreateVm-RedHat.RHEL-94_gen2-20251203194243 | Overview ...
Deployment
Overview Search Delete Cancel Redeploy Download Refresh
Deployment details Deployment name: CreateVm-RedHat.RHEL-94_gen2-20251203194... Start time: 12/3/2025, 7:44:59 PM
Subscription: P5-Real Hands-On Labs Correlation ID: 7e602661-db5a-4795-a491-ce5f48de1ea0
Resource group: 1116-362bd717-creating-your-first-azure-linux-virt
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
Add or remove favorites by pressing Ctrl+Shift+F
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 >

connecting via ssh

Creating Your First Azure Linux VM - myfirstlinuxvm - Microsoft Azure - Chromium

portal.azure.com/#/realhandsonlabs.com/resource/subscriptions/28e1e42a-4438-4c30-9a5f-7d7b488fd8b3/resourcegroups/1116-362bd717-creating-your-first-azure-linux-virt/providers/Microsoft.Compute/virtualMachines/myfirstlinuxvm/connect

Microsoft Azure

myfirstlinuxvm | Connect

Virtual machine

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Connect

Bastion

Networking

Network settings

Load balancing

Application security groups

Network manager

Settings

Disk

Extensions + applications

Operating system

Configuration

Advisor recommendations

Properties

Native SSH

Source machine

Source machine OS: Windows

Source IP address: Local IP: 213.174.10.253 Connecting over a VPN!

Destination VM

VM IP address: Public IP: 13.91.0.170

VM port: 22

Connection prerequisites

Just-in-time (JIT) access: Unable to determine if JIT access is enabled for this subscription. Please attempt to configure. More error details Manage JIT

VM access: Check inbound NSG rules

Configure + Check access

SSH command

Execute in your choice of local shell: ssh yvasilyshyn@13.91.0.170

Forgot password? Reset password

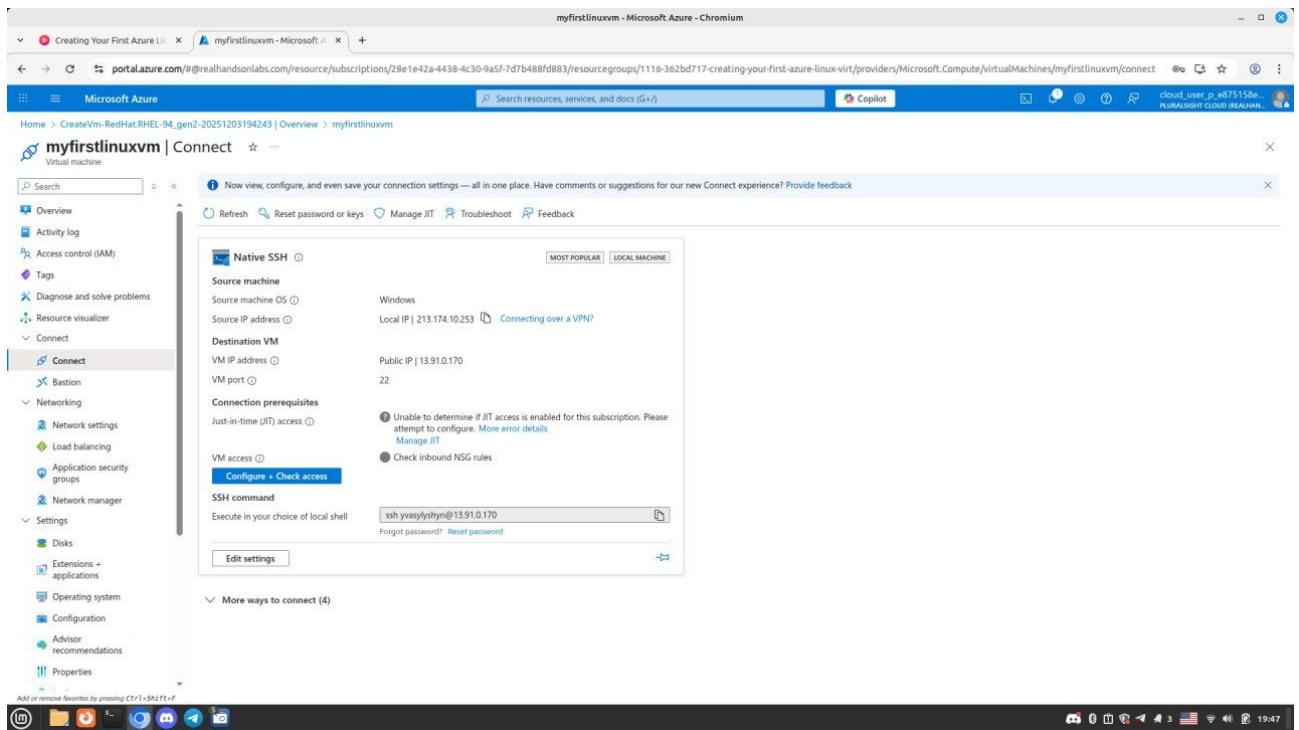
Edit settings

More ways to connect (4)

Add or remove favorites by pressing Ctrl+Shift+F

cloud_user_p_e875156e_PLURALIGHT CLOUD (REALHAN)

19:47



updating packages on server

Creating Your First Azure Linux VM - myfirstlinuxvm - Microsoft Azure - Chromium

portal.azure.com/#/realhandsonlabs.com/resource/subscriptions/28e1e42a-4438-4c30-9a5f-7d7b488fd8b3/resourcegroups/1116-362bd717-creating-your-first-azure-linux-virt/providers/Microsoft.Compute/virtualMachines/myfirstlinuxvm/connect

Microsoft Azure

myfirstlinuxvm | Connect

Virtual machine

File Edit View Search Terminal Tabs Help

gnome@glom... x glomo@glom... x glomo@glom... x yvasilyshyn@... x

```
gnome@glom...:~$ ssh yvasilyshyn@13.91.0.170
The authenticity of host '13.91.0.170 (13.91.0.170)' can't be established.
ED25519 key fingerprint is SHA256:7Y7R8z2MvcrD0twApxo1zNigPoF8Kf/Zw0gjk.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '13.91.0.170' (ED25519) to the list of known hosts.
yvasilyshyn@13.91.0.170's password:
```

Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
[yvasilyshyn@myfirstlinuxvm ~]\$

Now view, configure, and even save your connection settings — all in one place. Have comments or suggestions for our new Connect experience? Provide feedback

Native SSH

Source machine

Source machine OS: Windows

Source IP address: Local IP: 213.174.10.253 Connecting over a VPN!

Destination VM

VM IP address: Public IP: 13.91.0.170

VM port: 22

Connection prerequisites

Just-in-time (JIT) access: Unable to determine if JIT access is enabled for this subscription. Please attempt to configure. More error details Manage JIT

VM access: Check inbound NSG rules

Configure + Check access

SSH command

Execute in your choice of local shell: ssh yvasilyshyn@13.91.0.170

Forgot password? Reset password

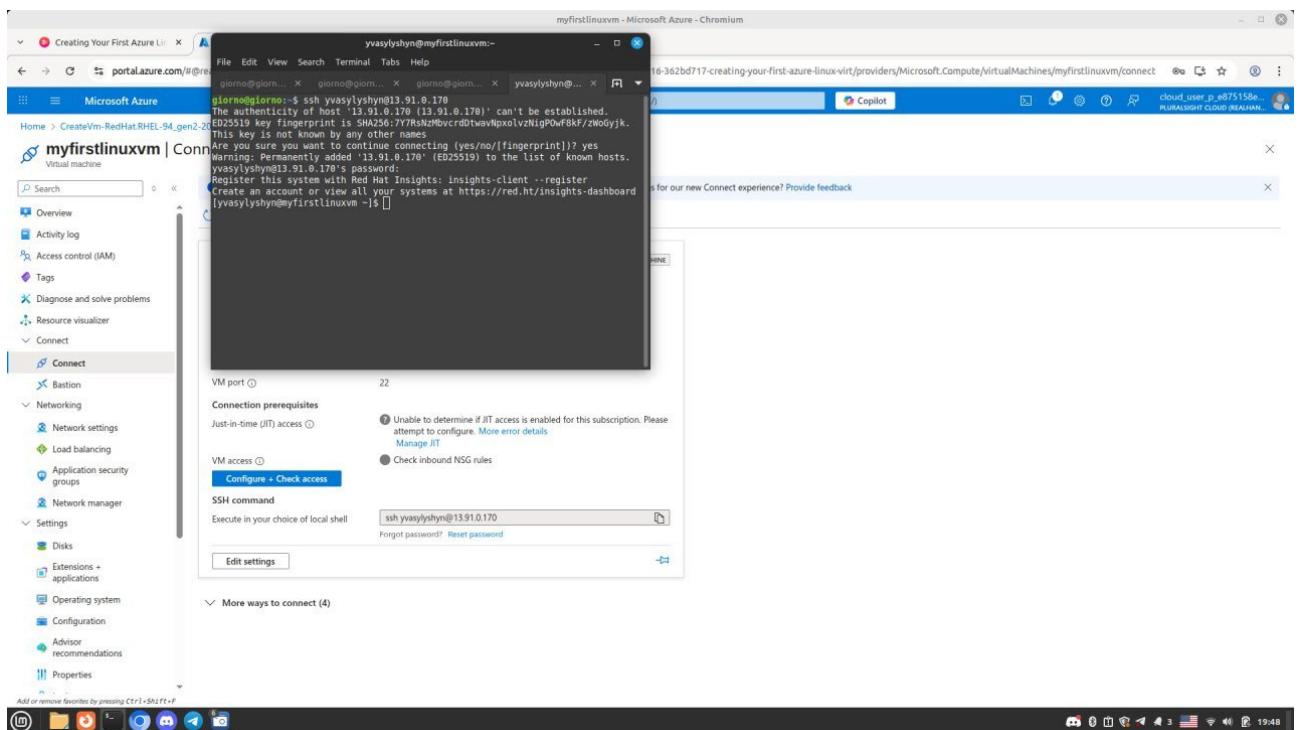
Edit settings

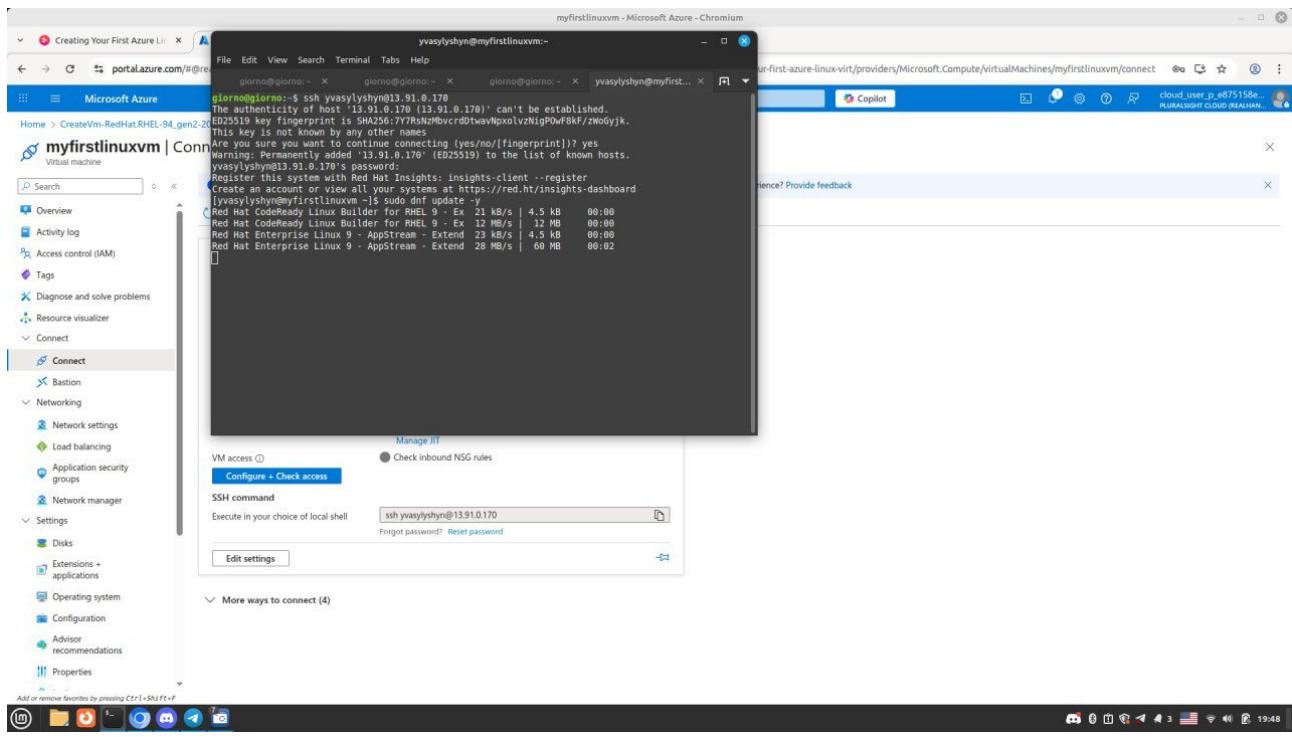
More ways to connect (4)

Add or remove favorites by pressing Ctrl+Shift+F

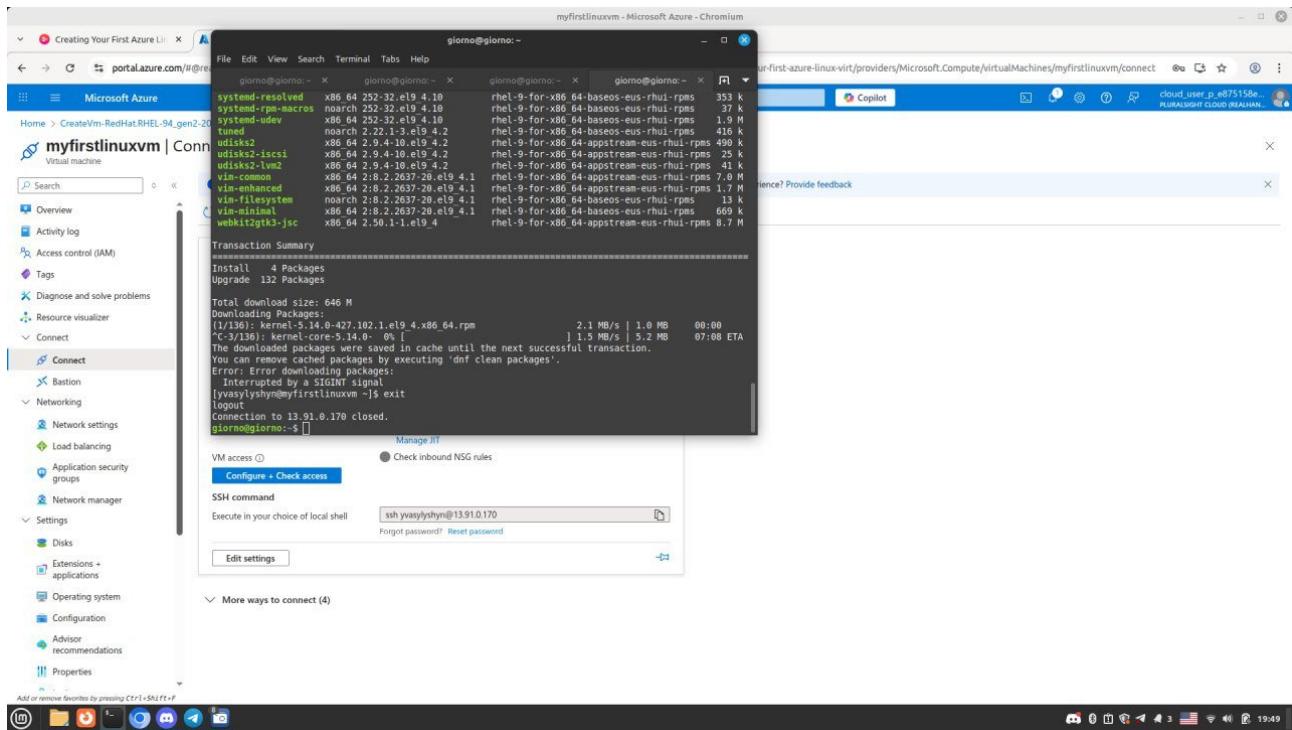
cloud user p_e875156e_PLURALIGHT CLOUD (REALHAN)

19:48





Exiting



LAB4 creating storage account

The screenshot shows the Microsoft Azure Storage account page. At the top, there's a navigation bar with tabs for 'Storage account' and 'Marketplace'. Below the navigation is a search bar and a Copilot button. The main content area has a title 'Storage account' with a 'Create' button. It includes sections for 'Subscription' (P6-Real Hands-On Labs), 'Plan' (Storage account), and a 'Create' button. Below this, there are tabs for 'Overview', 'Plans', 'Usage Information + Support', and 'Ratings + Reviews'. A brief description of Azure Storage is provided, followed by a section titled 'More products from Microsoft' with links to Active Directory Health Check, AD Replication Status, Device Update for IoT Hub, and Front Door and CDN profiles.

configuring storage account

The screenshot shows the 'Create a storage account' wizard. The current step is 'Project details'. It asks for a subscription (P6-Real Hands-On Labs) and a resource group (1136-e5dcdb2c-creating-an-azure-storage-account-an). Below these, there are sections for 'Instance details' (storage account name: storageaccforlab1, Region: US South Central US, Preferred storage type: Choose preferred storage type), 'Performance' (Standard selected), and 'Redundancy' (Geo-redundant storage (GRS) selected, with a checkbox for 'Make read access to data available in the event of regional unavailability'). At the bottom, there are 'Previous' and 'Next' buttons, and a 'Review + create' button.

reviewing and creating storage account

Create a storage account - Microsoft Azure - Chromium

Creating Your First Azure... Creating an Azure Storage... Create a storage account - 1136-e5dcdb2c-creating-an-...

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

cloud_user_p_c7e23105_PLURALSIGHT CLOUD (REALHAN)

Home > 1136-e5dcdb2c-creating-an-azure-storage-account-an > Marketplace > Storage account >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review + create

View automation template

Basics

Subscription	P6-Real Hands-On Labs
Resource group	1136-e5dcdb2c-creating-an-azure-storage-account-an
Location	South Central US
Storage account name	storageaccforlab1
Preferred storage type	
Performance	Standard
Replication	Read-access geo-redundant storage (RA-GRS)

Advanced

Enable hierarchical namespace	Disabled
Enable SFTP	Disabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled
Access tier	Hot
Enable large file shares	Enabled

Security

Secure transfer	Enabled
Blob anonymous access	Disabled
Allow storage account key access	Enabled
Default to Microsoft Entra authorization in the Azure portal	Disabled
Minimum TLS version	Version 1.2

Previous Next Create Give feedback

deployed storage acc

storageaccforlab1_1764808004495 - Microsoft Azure - Chromium

Creating Your First Azure... Creating an Azure Storage... storageaccforlab1_1764808004495 - 1136-e5dcdb2c-creating-an-...

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/-/overview/id%2Fsubscriptions%2F2213e8b1-dbc7-4d54-8aff-b5e315df5e5b%2FresourceGroups%2F1136-e5dcdb2c-creating-an-azure-storage-account-an%2Fproviders%2FMicro...

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

cloud_user_p_c7e23105_PLURALSIGHT CLOUD (REALHAN)

storageaccforlab1_1764808004495 | Overview

Deployment

Overview

Inputs Outputs Template

Your deployment is complete

Deployment name: storageaccforlab1_1764808004495
Subscription: P6-Real Hands-On Labs
Resource group: 1136-e5dcdb2c-creating-an-azure-storage-account-an

Start time: 12/4/2025, 2:27:17 AM
Correlation ID: 8881f31b-731a-4f18-9bed-930f37fc2e17

Deployment succeeded
Deployment 'storageaccforlab1_1764808004495' to resource group '1136-e5dcdb2c-creating-an-azure-storage-account-an' 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 >

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 >

creating a file share

New file share - Microsoft Azure - Chromium

Creating Your First Azure Li... Creating an Azure Storage ... New file share - Microsoft ... 1136-e5dcdb2c-creating-ai... +

portal.azure.com/view/Microsoft_Azure_FileStorage/CreateFileShare.ReactView/_provisioningContext-/7B"initialValues%3A%7B"subscriptionIds%3A%5B"2213e8b1-dbc7-4d54-8aff-b5e315df5e5b%5D%2C"resourceGroupName%3A%5B... cloud_user_p_c7e23105_PLURALIGHT CLOUD (REALM)

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

Copilot

cloud_user_p_c7e23105_PLURALIGHT CLOUD (REALM)

Home > storageaccforlab1_1764808004495 | Overview > storageaccforlab1 | File shares >

New file share ...

Basics Backup Review + create

Name * simplefileshare

Access tier * Transaction optimized

Performance

Maximum IO/s 20000

Maximum capacity 100 TiB

To use the SMB protocol with this share, check if you can communicate over port 445. These scripts for [Windows client](#) and [Linux client](#) can help. Learn how to [circumvent port 445 issues](#).

Review + create < Previous Next : Backup > Give feedback

removing backup

New file share - Microsoft Azure - Chromium

Creating Your First Azure Li... Creating an Azure Storage ... New file share - Microsoft ... 1136-e5dcdb2c-creating-ai... +

portal.azure.com/view/Microsoft_Azure_FileStorage/CreateFileShare.ReactView/_provisioningContext-/7B"initialValues%3A%7B"subscriptionIds%3A%5B"2213e8b1-dbc7-4d54-8aff-b5e315df5e5b%5D%2C"resourceGroupName%3A%5B... cloud_user_p_c7e23105_PLURALIGHT CLOUD (REALM)

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

Copilot

cloud_user_p_c7e23105_PLURALIGHT CLOUD (REALM)

Home > storageaccforlab1_1764808004495 | Overview > storageaccforlab1 | File shares >

New file share ...

Basics Backup Review + create

Azure Backup protects your file shares from accidental deletion or modification with granular restore and at-scale management capabilities. [Learn more](#) ?

Enable backup

Review + create < Previous Next : Review > Give feedback

Fileshare deployed

simplefileshare - Microsoft Azure - Chromium

Creating Your First Azure Li... Creating an Azure Storage ... simplefileshare - Microsoft ... 1136-e5dcdb2c-creating-an... +

portal.azure.com/#view/Microsoft_Azure_FileStorage/FileShareMenuBlade/-/overview/id%2Fsubscriptions%2F2213e8b1-dbc7-4d54-8aff-b5e315df5e5b%2Fresourcegroups%2F1136-e5dcdb2c-creating-an-azure-storage-account-an%2Fproviders... cloud_user_p_c7e23105... PLURALSIGHT CLOUD (REALHAN)

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

simplefileshare SMB File share

Overview

Diagnose and solve problems

Access Control (IAM)

Browse

Operations

Enable Backup for file share "simplefileshare" to protect your data. [Learn more](#)

Storage account : storageaccforlab1

Resource group (move) : 1136-e5dcdb2c-creating-an-azure-storage-account-an

Location : South Central US

Primary/Secondary location : Primary: South Central US; Secondary: North Central US

Subscription (move) : Pe-Real Hands-On Labs

Subscription ID : 2213e8b1-dbc7-4d54-8aff-b5e315df5e5b

Share URL : https://storageaccforlab1.file.core.windows.net/simplefileshare

Redundancy : Geo-redundant storage (GRS)

Configuration modified : 12/4/2025, 2:30:11 AM

Properties Capabilities (2) Tutorials

Size

Maximum storage (GiB) : 102400

Used storage capacity (GiB) : 0

Access tier : Transaction optimized

Feature status

Soft delete : 7 days

Large file shares : Enabled

Performance

IOPS : Varies by region. Learn more

Throughput (MiB/sec) : Varies by region. Learn more

Identity-based access

Directory service : Not configured

Domain : -

Backup

Snapshots : 0 snapshots

Last modified : -

Backup : Not configured

SMB protocol settings

Security profile : Maximum compatibility

SMB protocol versions : -

SMB channel encryption : -

Authentication mechanisms : -

Kerberos ticket encryption : -

Add or remove favorites by pressing Ctrl+Shift+F

02:30

creating a container

New container - Microsoft Azure - Chromium

Creating Your First Azure Li... Creating an Azure Storage ... New container - Microsoft ... 1136-e5dcdb2c-creating-an... +

portal.azure.com/#@realhandsonlabs.com/resource/subscriptions/2213e8b1-dbc7-4d54-8aff-b5e315df5e5b/resourcegroups/1136-e5dcdb2c-creating-an-azure-storage-account-an/providers/Microsoft.Storage/storageAccounts/storageaccforlab1/co... cloud_user_p_c7e23105... PLURALSIGHT CLOUD (REALHAN)

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

storageaccforlab1 | Containers

Storage account

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Partner solutions

Resource visualizer

Data storage

Containers

File shares

Queues

Tables

Security + networking

Data management

Settings

Monitoring

Monitoring (classic)

Automation

Help

Name * : containerlab

Anonymous access level : Private (no anonymous access)

The access level is set to private because anonymous access is disabled on this storage account.

Create Give feedback

Add or remove favorites by pressing Ctrl+Shift+F

02:31

connecting to a fileshare

Connect - Microsoft Azure - Chromium

portal.azure.com/#view/Microsoft_Azure_FileStorage/FileShareMenuBlade/-/overview/storageAccountId/%2FSubscriptions%2F2113e8b1-dbc7-4d54-8aff-b5e315df5e5b%2Fresourcegroups%2F1136-e5dcdb2c-creating-an-azure-storage-account-a... cloud_user_p_c7e23105_PLURALSIGHT CLOUD (REALHAN)

Microsoft Azure

Home > storageaccforlab1_1764808004495 | Overview > storageaccforlab1 | File shares >

simplefileshare SMB File share

Search ... Connect Upload Refresh Add directory Delete share Change tier Edit quota Give feedback

Overview

Diagnose and solve problems

Access Control (IAM)

Browse

Operations

Snapshots

Backup

Enable Backup for file share "simplefileshare" to protect your data. [Learn more](#)

Storage account : [storageaccforlab1](#)

Resource group (move) : [1136-e5dcdb2c-creating-an-azure-storage-account-an](#)

Location : South Central US

Primary/Secondary location : Primary: South Central US; Secondary: North Central US

Subscription ([move](#)) : [P6-Real Hands-On Labs](#)

Subscription ID : [2213e8b1-dbc7-4d54-8aff-b5e315df5e5b](#)

Properties Capabilities (2) Tutorials

Size

- Maximum storage (GiB) : 102400
- Used storage capacity (GiB) : 0
- Access tier : Transaction optimized

Performance

- IOPS : Varies by region. [Learn more](#)
- Throughput (MiB/sec) : Varies by region. [Learn more](#)

Backup

- Snapshots : 0 snapshots
- Last modified : -
- Backup : Not configured

Share URL : <https://storageaccforlab1.file.core.windows.net/simplefileshare>

Redundancy : Geo-redundant

Configuration modified : 12/4/2024

Feature status

- Soft delete
- Large file shares

Identity-based access

- Directory service
- Domain

SMB protocol settings

- Security profile
- SMB protocol versions
- SMB channel encryption
- Authentication mechanisms
- Kerberos ticket encryption

Drive letter: Z

Authentication method:

- Active Directory or Microsoft Entra
- Storage account key

Connecting to a share using the storage account key is only appropriate for admin access. Mounting the Azure file share with the Active Directory or Microsoft Entra identity of the user is preferred. [Learn more](#)

Hide Script

```
$connectTestResult = Test-NetConnection -ComputerName storageaccforlab1.file.core.windows.net -Port 445
if ($connectTestResult.TcpTestSucceeded) {
    # Save the password so the drive will persist on reboot
    $password = ConvertTo-SecureString -AsPlainText -Force
    $user = "localhost\storageaccforlab1"
    $pass = "SwcsGHCZCBBmYwefiRiCpIRB0cdU0BG+gqkjyMbCC0ZN03Q1C1ld5L6ciGLCLf+XN2f1HSJ+ASIQNhyCQz=""
    # Mount the drive
    New-PSSDrive -Name Z -PSProvider FileSystem -Root "\$storageaccforlab1.file.core.windows.net\simplefileshare" -Persist
} else {
    Write-Error -Message "Unable to reach the Azure storage account via port 445. Check to make sure your organization or ISP is not blocking port 445, or use Azure P2S VPN, Azure S2S VPN, or Express Route to tunnel SMB traffic over a different port."
}
```

Give feedback

connecting to a VM

WinVM1 - Microsoft Azure - Chromium

portal.azure.com/#/realhandsonglabs.com/resource/subscriptions/2213e8b1-dbc7-4d54-8aff-b5e315df5e5b/resourceGroups/1136-e5dcdb2c-creating-an-azure-storage-account-an/providers/Microsoft.Compute/virtualMachines/WinVM1/overview cloud_user_p_c7e23105_PLURALSIGHT CLOUD (REALHAN)

Microsoft Azure

Home > Resource Manager | All resources >

Resource Manager | All resources Pluralsight Cloud

Search ... Create Manage view ...

Name : storageaccforlab1

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Connect

Connect via Bastion

Windows Admin Center

Networking

Network settings

Load balancing

Application security groups

Network manager

Settings

Disk

Extensions + applications

Operating system

Configuration

Advisor recommendations

Showing 1 - 7 of 7. Display auto count.

WinVM1 Virtual machine

Help me copy this VM in any region | Manage this VM with Azure CLI

Advisors (1 of 2): Use Azure Capacity Reservation for virtual machine (VM) →

Connect

Connect via Bastion

Resource group (move) : 1136-e5dcdb2c-creating-an-azure-storage-account-an

Status : Running

Location : South Central US

Subscription ([move](#)) : P6-Real Hands-On Labs

Subscription ID : 2213e8b1-dbc7-4d54-8aff-b5e315df5e5b

Operating system : Windows (Windows Server 2022 Datacenter)

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

Primary NIC public IP : 20.165.44.25

Associated public IP : VNET1/SUBNET1

Virtual network/subnet : VNET1/SUBNET1

DNS name : Not configured

Health state : -

Time created : 12/3/2025, 4:48 PM UTC

Properties Monitoring Capabilities (8) Recommendations (2) Tutorials

Virtual machine

Computer name	WinVM
Operating system	Windows (Windows Server 2022 Datacenter)
VM generation	V1
VM architecture	x64
Guest status	Ready

Networking

Public IP address	20.165.44.25 (Network interface WinVM-NIC)
Associated public IP	-
Public IP address (IPv6)	-
Private IP address	10.0.0.4
Private IP address (IPv6)	-

Add or remove favorites by pressing Ctrl+Shift+F

connecting via rdp

connected to fileshare

```

Administrator: Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

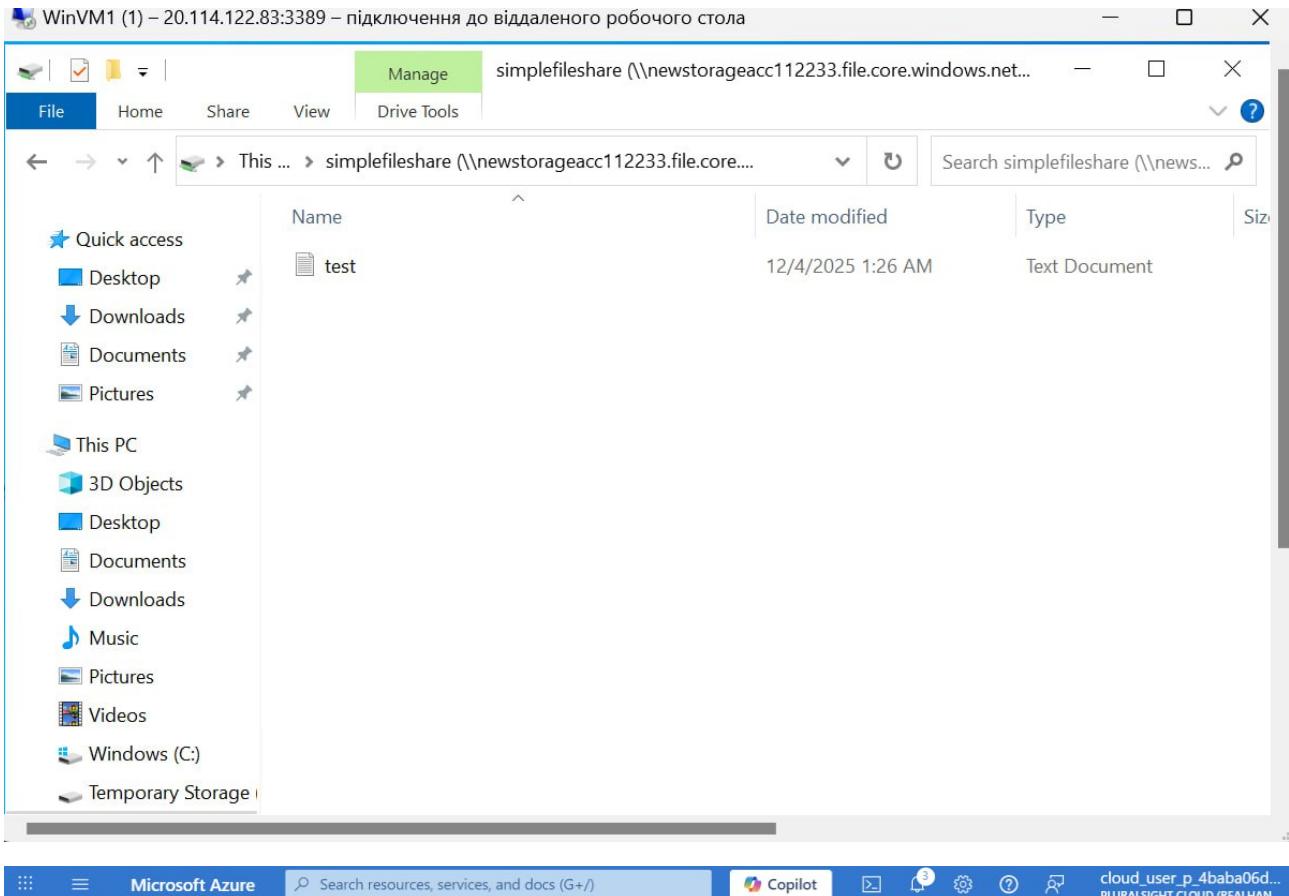
PS C:\Users\cloud_user> $connectTestResult = Test-NetConnection -ComputerName storageaccforlab1.file.core.windows.net -Port 445
Mic>>> if ($connectTestResult.TcpTestSucceeded) {
    >>>     # Save the password so the drive will persist on reboot
    >>>     cmd.exe /C "cmdkey /add:`"storageaccforlab1.file.core.windows.net`" /user:`"localhost\storageaccforlab1`" /pass:`"SwcsxGHZC8bMYIw6rlSCgrIHRx0cdU0BG+gqfkjvMbcc0Zn03iQlC1ldSl6cI6LCLFI+XN2i1HSJ+AStQNhYCo=``"
    >>>     # Mount the drive
    >>>     New-PSDrive -Name Z -PSProvider FileSystem -Root "\storageaccforlab1.file.core.windows.net\simplefileshare" -Persist
Storage
    >>> } else {
    >>>     Write-Error -Message "Unable to reach the Azure storage account via port 445. Check to make sure your organization or ISP is not blocking port 445, or use Azure P2S VPN, Azure S2S VPN, or Express Route to tunnel SMB traffic over a different port."
    >> }

CMDKEY: Credential added successfully.

Name          Used (GB)   Free (GB) Provider      Root                                         CurrentLocation
----          -----       -----   -----      -----
Z              0.00        102400.00 FileSystem \\storageaccforlab1.file.core.wi...
PS C:\Users\cloud_user>

```

created a test.txt to check access



A screenshot of the Microsoft Azure Storage Explorer interface. The top navigation bar shows "Microsoft Azure" and the URL "cloud_user_p_4bab06d... PLURALSIGHT CLOUD (REALHAN...)".

The main area shows a file share named "simplefileshare | Browse" (SMB File share). The left sidebar has navigation links: "Overview", "Diagnose and solve problems", "Access Control (IAM)", "Browse" (which is selected and highlighted in grey), and "Operations".

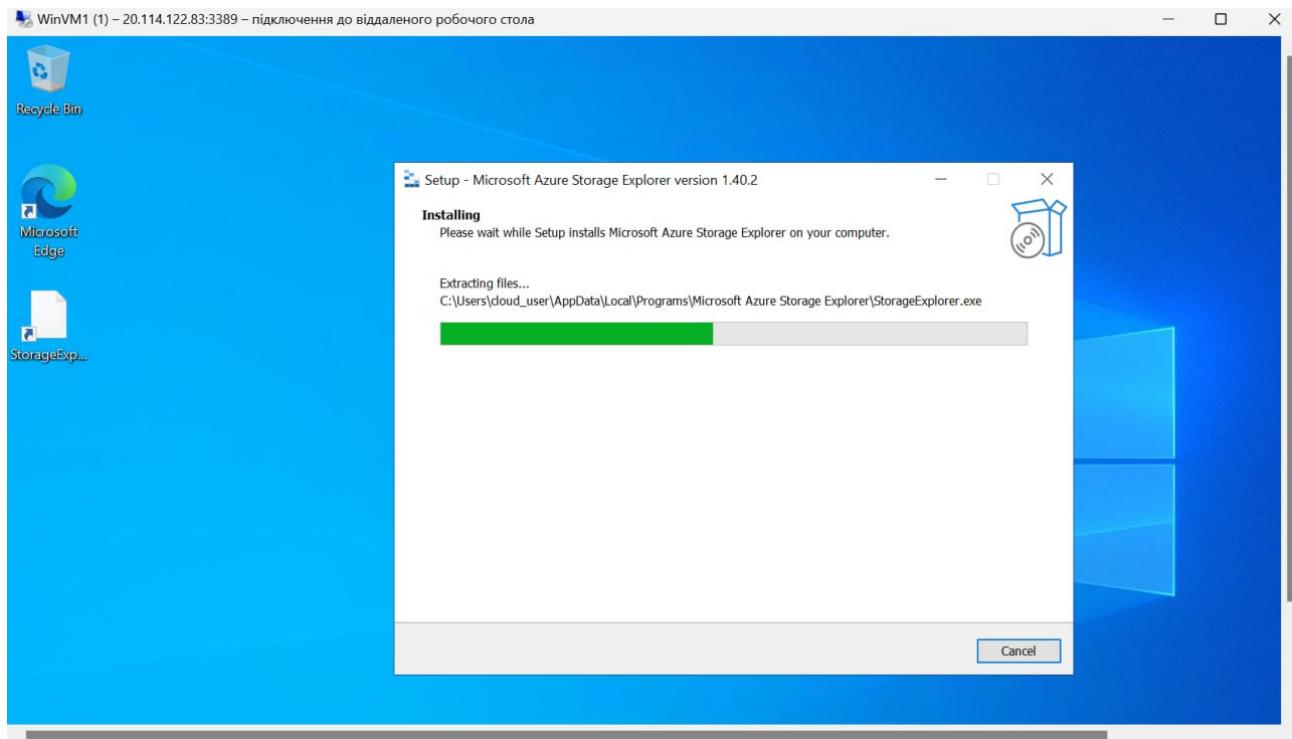
The top right features a toolbar with "Search", "Connect", "Upload", "Add directory", "Refresh", "Delete share", "Change tier", "Edit quota", and "Give feedback".

The central area displays the contents of the file share, including a search bar labeled "Search files by prefix" and a table:

Name	Type	Size
test.txt	File	0 B

Add or remove favorites by pressing **Ctrl+Shift+F**

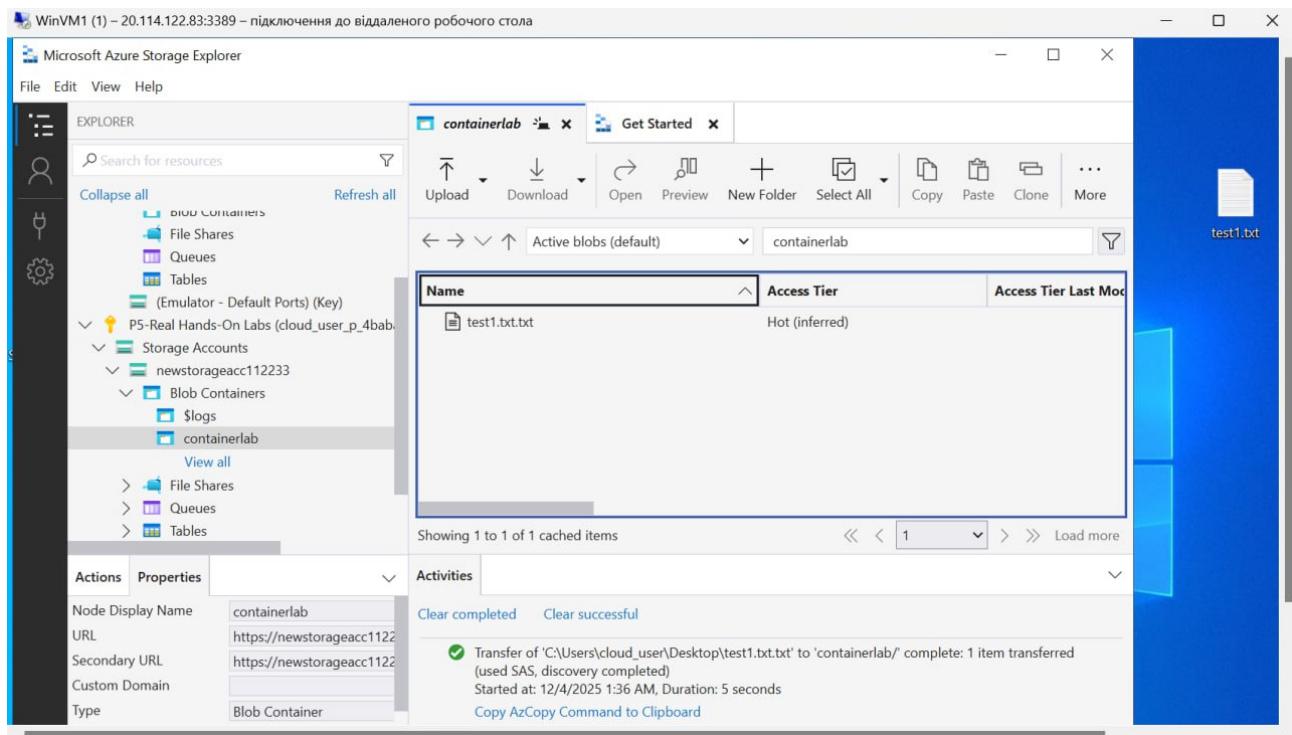
downloading storage explorer



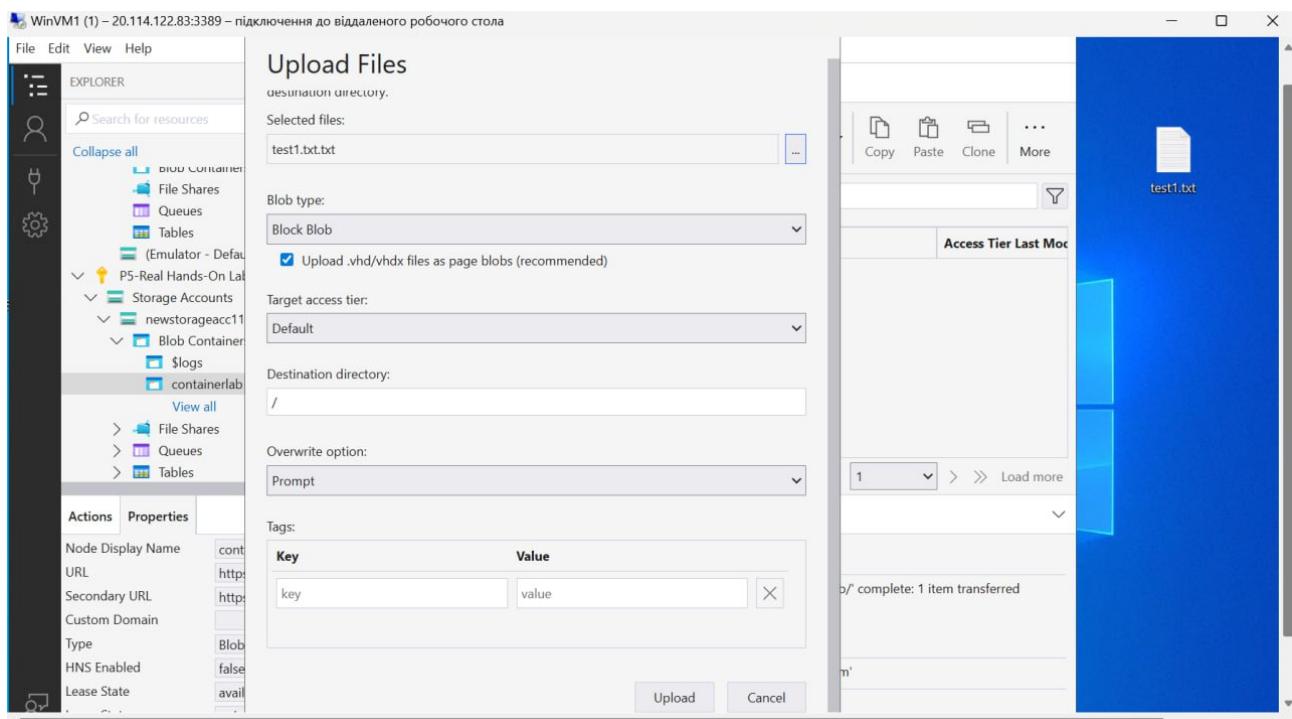
connected to storage explorer

A screenshot of the Microsoft Azure Storage Explorer application. The left pane shows account management with tenants like Pluralsight Cloud and P5-Real Hands-On Labs. The main pane is titled 'Storage Explorer' and includes sections for 'Get Started' (with options to sign in with Azure or attach to a resource) and 'Tasks' (listing recent activities). A 'Resources' sidebar on the right provides links to documentation and troubleshooting.

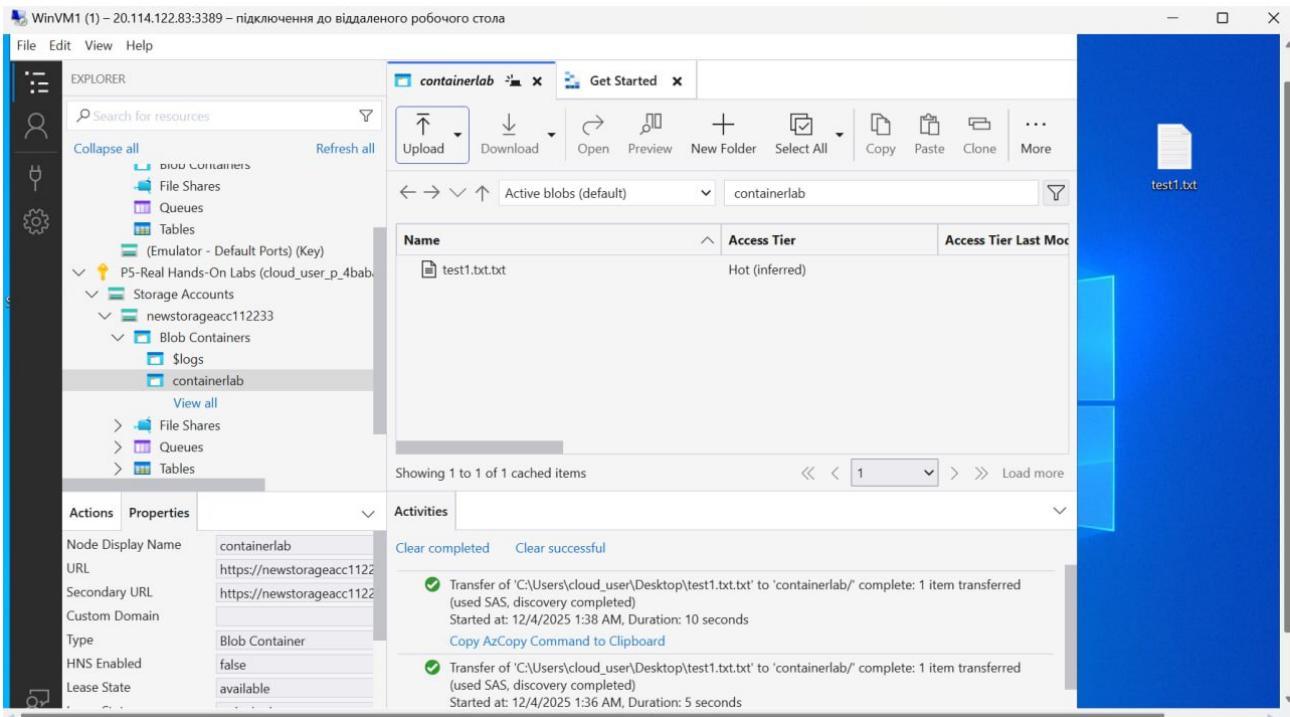
navigated test1.txt to our blob container



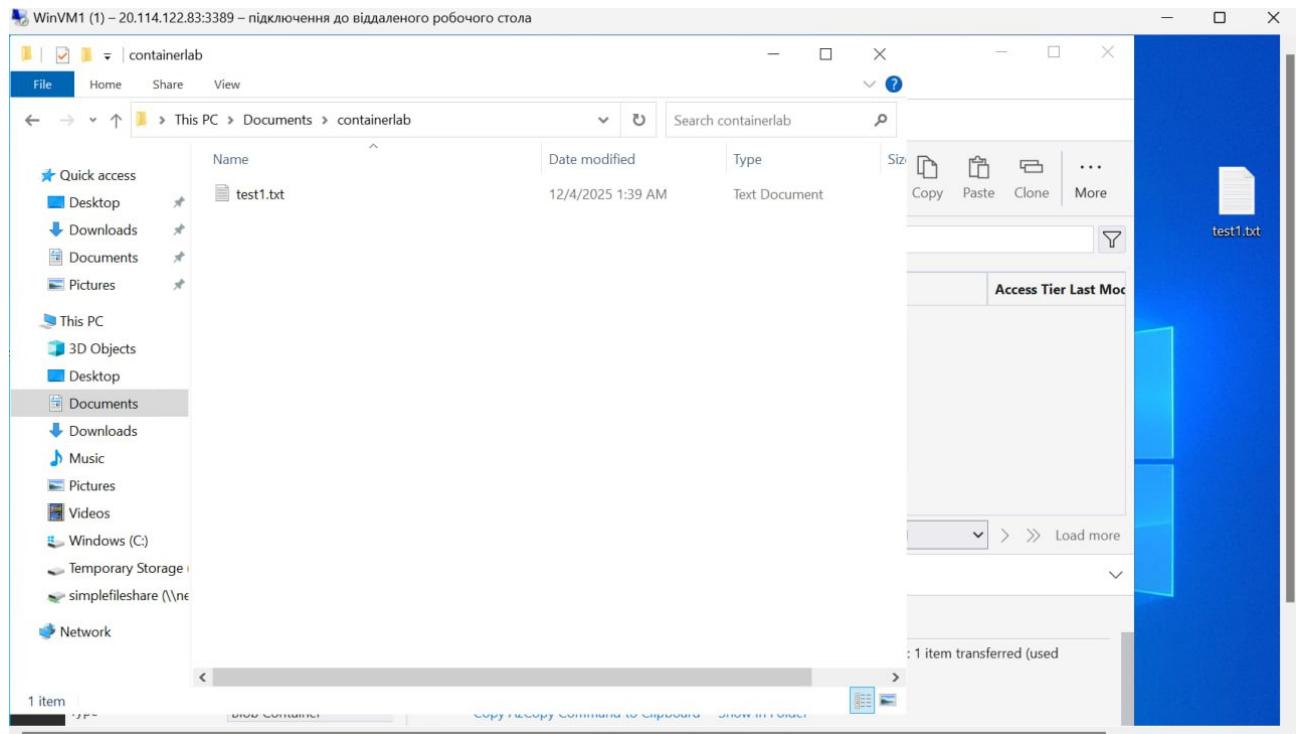
uploading test1.txt



uploaded!



also downloaded to documents



completed!

LAB5 Deploying SQL Database

Creating azure sql db

Microsoft Azure Search resources, services, and docs (G+/) Copilot Home > Azure SQL

Azure SQL | SQL databases

Pluralsight Cloud

Search Overview All resources Azure SQL Database SQL databases Hyperscale databases Elastic pools SQL logical servers Azure SQL Managed Instance SQL Server Related services Help

Filter SQL databases by resource group and location. List SQL databases that are non-compliant using ARG. +1

You are viewing a new version of Browse experience. Click here to access the old experience.

Subscription equals all Resource Group equals all Type equals all Location equals all + Add filter

No SQL databases to display

Utilize a fully managed relational database service, perfect for accelerating application development and simplifying management tasks.

+ Create Learn more Give feedback

Showing 1 - 0 of 0. Display count: auto

<https://portal.azure.com/#>

configuring db

Microsoft Azure Search resources, services, and docs (G+/) Copilot Home >

Create SQL Database

Project details

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

Subscription * P6-Real Hands-On Labs

Resource group * 1115-40ebcf5-deploying-a-simple-azure-sql-database Create new

Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name * simpledb1

Server * Select a server

Review + create Next : Networking >

creating db server

Microsoft Azure Search resources, services, and docs (G+/) Copilot Home > Create SQL Database >

Create SQL Database Server

Server details

Enter required settings for this server, including providing a name and location. This server will be created in the same subscription and resource group as your database.

Server name * simpledb1 .database.windows.net

Location * (US) East US

Authentication

Azure Active Directory (Azure AD) is now Microsoft Entra ID. Learn more

Select your preferred authentication methods for accessing this server. Create a server admin login and password to

OK Feedback

setting admin

Microsoft Azure Search resources, services, and docs (G/+) Copilot Home > Create SQL Database > Create SQL Database Server ... Microsoft

Create SQL Database Server

Azure Active Directory (Azure AD) is now Microsoft Entra ID. [Learn more](#)

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Microsoft Entra authentication [Learn more](#) or using an existing Microsoft Entra user, group, or application as Microsoft Entra admin [Learn more](#), or select both SQL and Microsoft Entra authentication.

Authentication method Use Microsoft Entra-only authentication Use both SQL and Microsoft Entra authentication Use SQL authentication

Server admin login * ✓

Password * ✓

Confirm password * ✓ Password and confirm password must match.

OK [Feedback](#)

changing compute tier to provisioned

Microsoft Azure Search resources, services, and docs (G/+) Copilot Home > Configure ... Microsoft

Configure

[Feedback](#)

Service and compute tier

Select from the available tiers based on the needs of your workload. The vCore model provides a wide range of configuration controls and offers Hyperscale and Serverless to automatically scale your database based on your workload needs. Alternately, the DTU model provides set price/performance packages to choose from for easy configuration. [Learn more](#)

SQL Database Hyperscale: Low price, high scalability, and best feature set. [Learn more](#)

Service tier ✓ [Compare service tiers](#)

Compute tier **Provisioned** - Compute resources are pre-allocated. Billed per hour based on vCores configured. **Serverless** - Compute resources are auto-scaled. Billed per second based on vCores used.



Cost summary

General Purpose (GP_Gen5_2)	184.09
Cost per vCore (in USD)	x 2
vCores selected	
Cost per GB (in USD)	0.12

Apply

changing backup store redundancy

Microsoft Azure Search resources, services, and docs (G/+) Copilot Home > Create SQL Database ... Microsoft

Create SQL Database

Compute + storage * **Basic** 2 GB storage [Configure database](#)

Backup storage redundancy **Locally-redundant backup storage** Zone-redundant backup storage Geo-redundant backup storage Geo-Zone-redundant backup storage

Review + create **Next : Networking >**

changing connectivity method and firewall rules

Microsoft Azure Search resources, services, and docs (G+/) Copilot Home > Create SQL Database

Network connectivity

Choose an option for configuring connectivity to your server via public endpoint or private endpoint. Choosing no access creates with defaults and you can configure connection method after server creation. [Learn more](#)

Connectivity method * No access Public endpoint Private endpoint

Firewall rules

Setting 'Allow Azure services and resources to access this server' to Yes allows communications from all resources inside the Azure boundary, that may or may not be part of your subscription. [Learn more](#)

Setting 'Add current client IP address' to Yes will add an entry for your client IP address to the server firewall.

Allow Azure services and resources to access this server * No Yes

Add current client IP address * No Yes

Cost summary

Basic (Basic)	0.98
Cost per DTU (in USD)	x 5
DTUs selected	
ESTIMATED COST / MONTH	4.90 USD

Review + create < Previous Next : Security >

configuring identities

Microsoft Azure Search resources, services, and docs (G+/) Copilot Home > Create SQL Database

Identity

Create SQL Database

System assigned managed identity

A system assigned managed identity enables Azure resources to authenticate to cloud services (e.g. Azure Key Vault) without storing credentials in code. Once enabled, all necessary permissions can be granted via Azure role-based-access-control. The lifecycle of this type of managed identity is tied to the lifecycle of this resource. Additionally, each resource (e.g. Virtual Machine) can only have one system assigned managed identity. [Learn more about Managed identities](#).

Status Off On

User assigned managed identity

User assigned managed identities enable Azure resources to authenticate to cloud services (e.g. Azure Key Vault) without storing credentials in code. This type of managed identities are created as standalone Azure resources, and have their own lifecycle. A single resource (e.g. Virtual Machine) can utilize multiple user assigned managed identities. Similarly, a single user assigned managed identity can be shared across multiple resources (e.g. Virtual Machine). [Learn more about Managed identities](#).

+ Add - Remove

Name	resource group	subscription
No user assigned managed identities assigned to this resource. Select 'Add' to add more		

changing data source

Microsoft Azure Search resources, services, and docs (G+/) Copilot Home > Create SQL Database

Customize additional configuration parameters including collation & sample data.

Data source

Start with a blank database, restore from a backup or select sample data to populate your new database.

Use existing data * None Backup Sample

AdventureWorksLT will be created as the sample database.

Database collation

Database collation defines the rules that sort and compare data, and cannot be changed after database creation. The default database collation is SQL_Latin1_General_CI_AS. [Learn more](#)

Collation SQL_Latin1_General_CI_AS

Cost summary

Basic (Basic)	0.98
Cost per DTU (in USD)	x 5
DTUs selected	
ESTIMATED COST / MONTH	4.90 USD

Review + create < Previous Next : Tags >

Deployed

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

Copilot | Home > Microsoft.SQLDatabase.newDatabaseNewServer_1758a85404e3446280ad7 | Overview

Deployment

Search | Delete | Cancel | Redeploy | Download | Refresh

Overview

Your deployment is complete

Deployment name : Microsoft.SQLDatabase.newDa... Start time : 12/4/2025, 4:23:35 AM
Subscription : P6-Real Hands-On Labs Correlation ID : 3e9874ff-3f09-4674-9924-5041...
Resource group : 1115-40ebce5-deploying-a-si...

Deployment details | Next steps

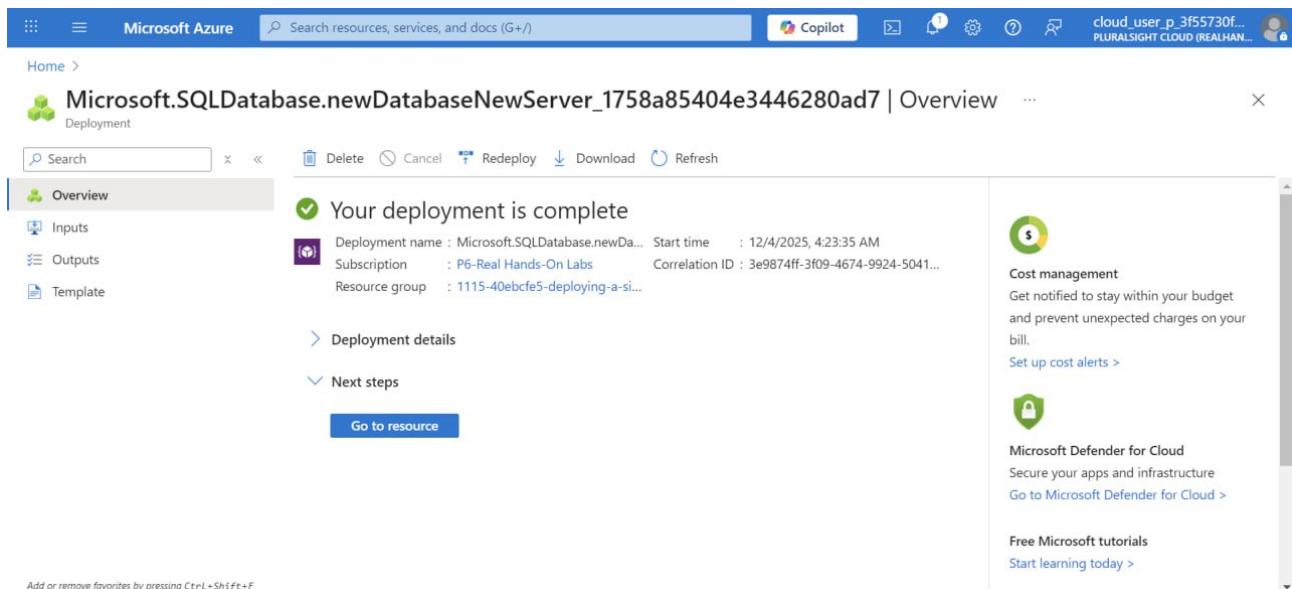
Go to resource

Add or remove favorites by pressing Ctrl+Shift+F

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 >



logged into db

Home > Microsoft.SQLDatabase.newDatabaseNewServer_1758a85404e3446280ad7 | Overview > simpledb1 (simpledb1/simpledb1)

simpledb1 (simpledb1/simpledb1) | Query editor (preview)

SQL database

quer | Login | New Query | Open query | Feedback | Getting started

Query editor (preview)

Intelligent performance | Query performance insight

Showing limited object explorer here. For full capability please click here to open Azure Data Studio.

Tables | Views | Stored Procedures

Query 1

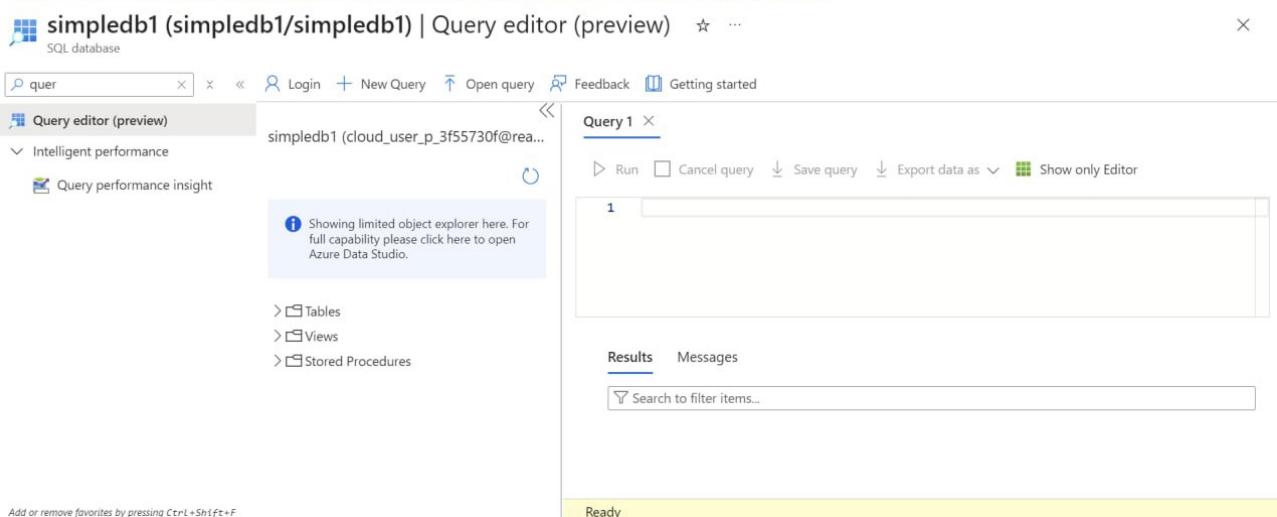
Run | Cancel query | Save query | Export data as | Show only Editor

1

Results | Messages

Search to filter items...

Ready



first query

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

Copilot | Home > Microsoft.SQLDatabase.newDatabaseNewServer_1758a85404e3446280ad7 | Overview > simpledb1 (simpledb1/simpledb1)

simpledb1 (simpledb1/simpledb1) | Query editor (preview)

SQL database

quer | Login | New Query | Open query | Feedback | Getting started

Query editor (preview)

Intelligent performance | Query performance insight

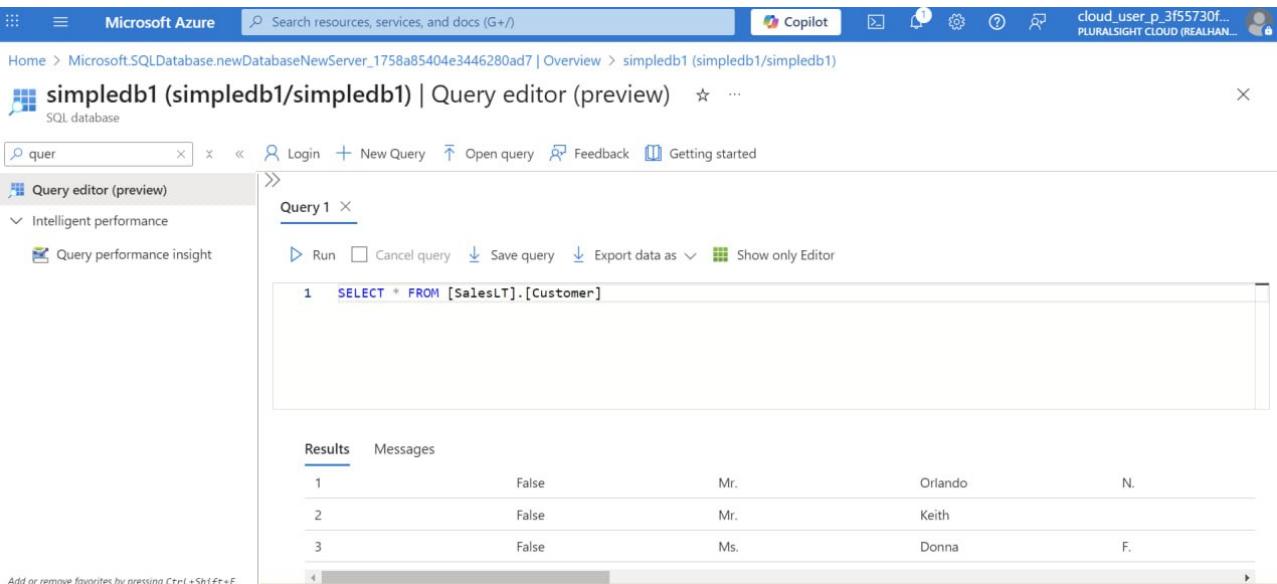
Query 1

Run | Cancel query | Save query | Export data as | Show only Editor

1 SELECT * FROM [SalesLT].[Customer]

Results | Messages

1	False	Mr.	Orlando	N.
2	False	Mr.	Keith	
3	False	Ms.	Donna	F.



running second query

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

Home > Microsoft.SQLDatabase.newDatabaseNewServer_1758a85404e3446280ad7 | Overview > simpledb1 (simpledb1/simpledb1)

simpledb1 (simpledb1/simpledb1) | Query editor (preview)

SQL database

quer

Login New Query Open query Feedback Getting started

Query editor (preview)

Intelligent performance

Query performance insight

Query 1

Run Cancel query Save query Export data as Show only Editor

```
1 SELECT * FROM [SalesLT].[ProductModel]
```

Results Messages

ProductModelID	Name	CatalogDescription	rowguid	ModifiedDate
1	Classic Vest		29321d47-1e4c-4aac-887c-1...	2007-06-01T00:00:00.0000000
2	Cycling Cap		474fb654-3c96-4cb9-82df-21...	2005-06-01T00:00:00.0000000

Add or remove favorites by pressing Ctrl+Shift+F

third query (no results)

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

Home > Microsoft.SQLDatabase.newDatabaseNewServer_1758a85404e3446280ad7 | Overview > simpledb1 (simpledb1/simpledb1)

simpledb1 (simpledb1/simpledb1) | Query editor (preview)

SQL database

quer

Login New Query Open query Feedback Getting started

Query editor (preview)

Intelligent performance

Query performance insight

Query 1

Run Cancel query Save query Export data as Show only Editor

```
1 SELECT FirstName, LastName FROM [SalesLT].[Customer] WHERE LastName LIKE 'Orl%'
```

Results Messages

Search to filter items...

FirstName	LastName

No results

Add or remove favorites by pressing Ctrl+Shift+F

fourth query

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

Home > Microsoft.SQLDatabase.newDatabaseNewServer_1758a85404e3446280ad7 | Overview > simpledb1 (simpledb1/simpledb1)

simpledb1 (simpledb1/simpledb1) | Query editor (preview)

SQL database

quer

Login New Query Open query Feedback Getting started

Query editor (preview)

Intelligent performance

Query performance insight

Query 1

Run Cancel query Save query Export data as Show only Editor

```
1 SELECT FirstName, LastName FROM [SalesLT].[Customer] WHERE FirstName LIKE 'Orl%'
```

Results Messages

FirstName	LastName
Orlando	Gee
Orlando	Gee

Add or remove favorites by pressing Ctrl+Shift+F

completed