

Azure Resource Provisioning and Virtual Machine Deployment

Project Overview

This document summarizes hands-on experience deploying Azure resources and virtual machines using the Azure Portal.

- Created and managed core Azure resources
- Deployed and configured an Azure Virtual Machine

Azure Resource Provisioning

This section documents the creation and management of core Azure resources using the Azure Portal, including subscription selection, resource group setup, and foundational configuration.

The screenshot displays the Azure Portal interface. On the left, the navigation pane shows the 'Overview' tab selected for the virtual machine 'my-VM-58250895'. The main pane shows the 'Essentials' section with details such as Resource group (myRGKv-1od58250895), Status (Running), Location (East US 2 (Zone 1)), Subscription (AZ-900T00-A-CSR-6), Subscription ID (60dc3063-135a-4ebf-9819-89b638c936a8), Availability zone (1), Operating system (Linux (ubuntu 24.04)), Size (Standard B1ls (1 vcpu, 0.5 GiB memory)), Primary NIC public IP (172.175.80.99), Virtual network/subnet (my-VM-58250895-vnet/default), DNS name (Not configured), Health state (-), and Time created (1/14/2026, 1:58 AM UTC). On the right, the 'Create an Azure resource' wizard is open, showing the 'Instructions' tab for 'Gen2'. The wizard includes fields for Size, Authentication type (Password), Username (azureuser), Password (a custom password), Confirm password, and Public inbound ports (None). A warning message at the bottom states: 'Product details will include a cost associated with creating the virtual machine. This is a system function. If you're creating the VM in the Learn sandbox, you won't actually incur any costs.'

Create an Azure resource - Google Chrome

labclient.labondemand.com/LabClient/983e8e74-0a80-46c2-831e-a3e6ac68093d

my-VM-58250895 - Microsoft Azure

Home > my-VM-58250895 Virtual machine

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

Help me copy this VM in any region

Manage this VM with Azure CLI

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Connect

Networking

Settings

Availability + scale

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Backup + disaster recovery

Operations

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Automation

Add or remove favorites by pressing Ctrl+Shift+F

Properties

Monitoring

Capabilities (7)

Recommendations

Tutorials

Virtual machine

Computer name
my-VM-58250895

Operating system
Linux (ubuntu 24.04)

VM generation
V2

VM architecture
x64

Agent status
Ready

Agent version
2.15.0.1

Hibernation
Disabled

Host group

Create an Azure resource

Instructions Resources

Image Gen2

Size Click **See all sizes**, click **B-Series**, select **B1ls**, click **Select** at the bottom of the screen

Authentication type Password

Username azureuser

Password Enter a custom password such as
d!DkeBH90!qd!DkeBH90!q

Confirm password Reenter the custom password

Public inbound ports None

5. Select Review and Create.

Product details will include a cost associated with creating the virtual machine. This is a system function. If you're creating the VM in the Learn sandbox, you won't actually incur any costs.

Previous

9:01 PM 1/13/2026

Create an Azure resource - Google Chrome

labclient.labondemand.com/LabClient/983e8e74-0a80-46c2-831e-a3e6ac68093d

myRGKV-lod58250895 - Microsoft Azure

Home > Resource Manager | Resource groups > myRGKV-lod58250895 Resource group

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

Export resource groups using Bicep or Terraform +2

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Essentials

JSON View

Resources Recommendations

Filter for any field...

Type equals all

Location equals all

Add filter

Name	Type	Location
my-VM-58250895	Virtual machine	East US 2
my-VM-58250895-ip	Public IP address	East US 2
my-VM-58250895-nsg	Network security group	East US 2
my-VM-58250895-vnet	Virtual network	East US 2
my-vm-58250895855_x1	Network interface	East US 2
my-VM-58250895_disk1_99e5cebf2974405b	Disk	East US 2

Create an Azure resource

Instructions Resources

Image Gen2

Size Click **See all sizes**, click **B-Series**, select **B1ls**, click **Select** at the bottom of the screen

Authentication type Password

Username azureuser

Password Enter a custom password such as
d!DkeBH90!qd!DkeBH90!q

Confirm password Reenter the custom password

Public inbound ports None

5. Select Review and Create.

Product details will include a cost associated with creating the virtual machine. This is a system function. If you're creating the VM in the Learn sandbox, you won't actually incur any costs.

Previous

9:03 PM 1/13/2026

Azure Virtual Machine Deployment

This section documents the deployment and configuration of an Azure Virtual Machine using the Azure Portal, including resource selection, configuration choices, and validation steps.

The screenshot displays the Azure Portal interface for a virtual machine named VM1. The left sidebar shows the navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Connect, Networking, Settings, Availability + scale, Security, Backup + disaster recovery, Operations, Monitoring, and Automation. The main content area shows the VM1 overview, including a warning that the VM agent status is not ready. The 'Essentials' section lists key properties: Resource group (AZ900RGlod58311996), Status (Running), Location (East US 2 (Zone 1)), Subscription (Challenge Labs 07), Subscription ID (8d7ebc7f-6c63-47b5-bbdc-6df02452b2bd), Availability zone (1), Operating system (Windows), Size (Standard D53 v2 (4 vcpus, 14 GiB memory)), Primary NIC public IP (128.24.112.239), Virtual network/subnet (vnet-eastus2/snet-eastus2-1), DNS name (Not configured), Health state (-), and Time created (1/16/2026, 2:30 AM UTC). The right sidebar shows a guided deployment tutorial for 'AZ900-011: Deploy an Azure Virtual Machine' with instructions, resources, and a 'Check your work' section.

VM1 - Microsoft Azure - Google Chrome

portal.azure.com/#@cloudslice.onmicrosoft.com/resource/subscriptions/8d7ebc7f-6c63-47b5-bbdc-6df02452b2bd/resourcegroups/AZ900RGlod58311996...

Microsoft Azure

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20260115212520 | Overview >

VM1 Virtual machine

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

Search

VM1 virtual machine agent status is not ready. Troubleshoot the issue →

Help me copy this VM in any region

Connect Start Restart Stop Hibernate Capture Delete Refresh

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Essentials

Resource group (move) AZ900RGlod58311996

Status Running

Location East US 2 (Zone 1)

Subscription (move) Challenge Labs 07

Subscription ID 8d7ebc7f-6c63-47b5-bbdc-6df02452b2bd

Availability zone 1

Operating system Windows

Size Standard D53 v2 (4 vcpus, 14 GiB memory)

Primary NIC public IP 128.24.112.239

1 associated public IPs

Virtual network/subnet vnet-eastus2/snet-eastus2-1

DNS name Not configured

Health state -

Time created 1/16/2026, 2:30 AM UTC

Tags (edit) Add tags

Properties Monitoring Capabilities (8) Recommendations Tutorials

AZ900-011: Deploy an Azure Virtual Machine [Guided] 19 Minutes Remaining

Instructions Resources Help

Virtual machines are one of the most frequently deployed resources in Azure. When your company decides to migrate resources to the cloud, virtual machines can, and often do, replace on-premises resources. Virtual machines can be used to...

more...

Want to learn more?

Review the documentation on:

- Virtual machines

more...

Check your work

Verify that you have created an Azure virtual machine named VM1.

Congratulations! You have created an Azure virtual machine named VM1.

Verify

Previous Next: Review Azure virtual...

The screenshot displays the Azure Portal interface for a virtual machine named VM2. The left sidebar shows the navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Connect, Networking, Settings, Availability + scale, Security, Backup + disaster recovery, Operations, Monitoring, and Automation. The main content area shows the VM2 overview, including a warning that the VM agent status is not ready. The 'Essentials' section lists key properties: Resource group (AZ900RGlod58311996), Status (Running), Location (East US 2), Subscription (Challenge Labs 07), Subscription ID (8d7ebc7f-6c63-47b5-bbdc-6df02452b2bd), Operating system (Windows (Windows Server 2016 Datacenter)), Size (Standard D53 v2 (4 vcpus, 14 GiB memory)), Primary NIC public IP (20.161.229.202), Virtual network/subnet (CloudNet/subnet-01), DNS name (vm258311996.eastus2.cloudapp.azure.com), Health state (-), and Time created (1/16/2026, 2:19 AM UTC). The right sidebar shows a guided deployment tutorial for 'AZ900-011: Deploy an Azure Virtual Machine' with instructions, resources, and a 'Check your work' section.

VM2 - Microsoft Azure - Google Chrome

portal.azure.com/#@cloudslice.onmicrosoft.com/resource/subscriptions/8d7ebc7f-6c63-47b5-bbdc-6df02452b2bd/resourcegroups/AZ900RGlod58311996...

Microsoft Azure

Home > Compute infrastructure | Virtual machines >

VM2 Virtual machine

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

Search

Help me copy this VM in any region

Connect Start Restart Stop Hibernate Move Delete Refresh

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Essentials

Resource group (move) AZ900RGlod58311996

Status Running

Location East US 2

Subscription (move) Challenge Labs 07

Subscription ID 8d7ebc7f-6c63-47b5-bbdc-6df02452b2bd

Operating system Windows (Windows Server 2016 Datacenter)

Size Standard D53 v2 (4 vcpus, 14 GiB memory)

Primary NIC public IP 20.161.229.202

1 associated public IPs

Virtual network/subnet CloudNet/subnet-01

DNS name vm258311996.eastus2.cloudapp.azure.com

Health state -

Time created 1/16/2026, 2:19 AM UTC

Tags (edit) displayName : VM2

Properties Monitoring Capabilities (8) Recommendations Tutorials

AZ900-011: Deploy an Azure Virtual Machine [Guided] 18 Minutes Remaining

Instructions Resources Help

machine properties:

- The Get-AzVM cmdlet
- The az vm CLI 2.0 commands

Check your work

What is the name of the virtual network that VM2 is connected to?

CloudNet

Verify

That is correct.

How many vCPUs does VM2 have?

4

Verify

That is correct.

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