

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 about the VM's resource group, status, location, subscription, and network configuration. On the right, the 'Create an Azure resource' wizard is open, showing the 'Instructions' tab for a Gen2 VM. The wizard includes fields for Size, Authentication type, Username, Password, Confirm password, and Public inbound ports. A warning message at the bottom of the wizard 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.'

my-VM-58250895
Virtual machine

Help me copy this VM in any region

Connect Start Restart Stop Hibernate Capture Delete Refresh

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

Add or remove favorites by pressing Ctrl+Shift+F

Essentials

Resource group (move) myRGKV-lod58250895

Status Running

Location East US 2 (Zone 1)

Subscription (move) AZ-900700-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

1 associated public IPs

Virtual network/subnet my-VM-58250895-vnet/default

DNS name Not configured

Health state -

Time created 1/14/2026, 1:58 AM UTC

Tags (edit) Add tags

Create an Azure resource

Instructions Resources

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

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

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

Security

Backup + disaster recovery

Operations

Monitoring

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

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Cost Management

Monitoring

Automation

Help

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 page with a warning message: "VM1 virtual machine agent status is not ready. Troubleshoot the issue". Below this, there are buttons for Connect, Start, Restart, Stop, Hibernate, Capture, Delete, and Refresh. The Essentials section lists various 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 help sections. The tutorial includes a "Check your work" section with a green checkmark indicating that the virtual machine named VM1 has been successfully created.

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 page with a warning message: "VM2 virtual machine agent status is not ready. Troubleshoot the issue". Below this, there are buttons for Connect, Start, Restart, Stop, Hibernate, Move, Delete, and Refresh. The Essentials section lists various 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 help sections. The tutorial includes a "Check your work" section with a green checkmark indicating that the virtual machine named VM2 has been successfully created. The tutorial also includes a "Check your work" section with a green checkmark indicating that the virtual machine named VM2 has been successfully created.