

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 shows the Microsoft Azure portal interface for managing a virtual machine. The left sidebar lists various service categories. The main content area is titled 'my-VM-58250895' and displays the 'Overview' tab. Key details shown include:

- Resource group:** myRCKV-ld58250895
- Operating system:** Linux (ubuntu 24.04)
- Status:** Running
- Location:** East US 2 (Zone 1)
- Subscription:** AZ-900700-A-CSR_6
- Primary NIC public IP:** 172.175.80.99
- Associated public IPs:** 1
- Virtual network/subnet:** my-VM-58250895-vnet/default
- DNS name:** Not configured
- Health state:** -
- Time created:** 1/14/2026, 1:58 AM UTC

about:blank x my-VM-58250895 - Microsoft Azure +

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Home > my-VM-58250895 Virtual machine

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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	

about:blank x myRGKV-ld58250895 - Microsoft Azure +

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Home > Resource Manager | Resource groups >

myRGKV-ld58250895 Resource group

Export resource groups using Bicep or Terraform +2

Search Create Manage view Delete resource group Refresh Group by none

Overview Activity log Access control (IAM) Tags Resource visualizer Events Settings Cost Management Monitoring Automation Help

Essentials

Resources Recommendations JSON View

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-58250895585_z1	Network Interface	East US 2
my-VM-58250895_disk1_99e5cefb2974405b	Disk	East US 2

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 shows the Azure Portal interface for a virtual machine named VM1. The left sidebar contains navigation links such as 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 is titled 'Overview' and displays the following details:

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 DS3 v2 (4 vcpus, 14 GiB memory)
Primary NIC public IP	128.24.112.239
Associated public IPs	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

At the bottom of the main content area, there are tabs for Properties, Monitoring, Capabilities (8), Recommendations, and Tutorials. A 'Tags (edit)' button is also present.

The screenshot shows the Azure Portal interface for a virtual machine named VM2. The left sidebar contains the same navigation links as the previous screenshot. The main content area is titled 'Overview' and displays the following details:

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 DS3 v2 (4 vcpus, 14 GiB memory)
Primary NIC public IP	20.161.229.202
Associated public IPs	1 associated public IPs
Virtual network/subnet	CloudNet/subnet-01
DNS name	vn258311996.eastus2.cloudapp.azure.com
Health state	-
Time created	1/16/2026, 2:19 AM UTC

At the bottom of the main content area, there are tabs for Properties, Monitoring, Capabilities (8), Recommendations, and Tutorials. A 'Tags (edit)' button is present, with the value 'displayName : VM2' displayed in the input field.