

Azure Resource Provisioning and Virtual Machine Deployment

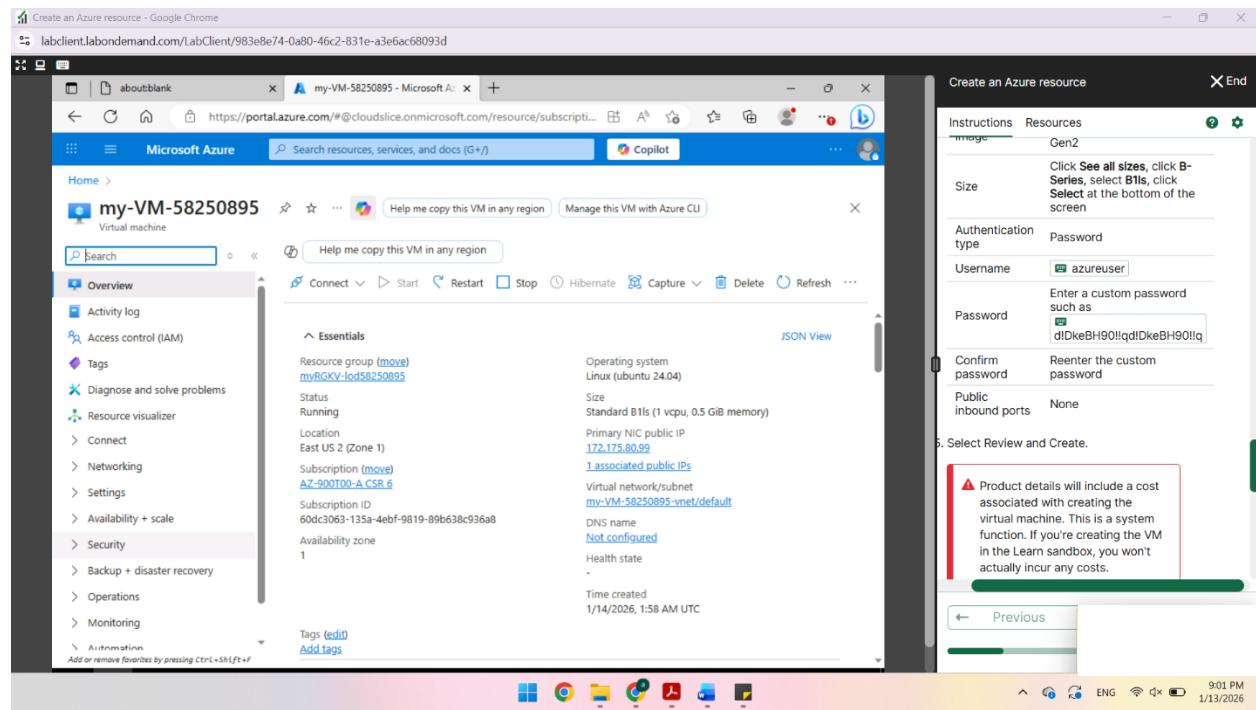
Project Overview

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.



Create an Azure resource - Google Chrome

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

about:blank my-VM-58250895 - Microsoft Edge https://portal.azure.com/#@cloudslice.onmicrosoft.com/resource/subscript... +

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

Home > my-VM-58250895 Virtual machine

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

Help me copy this VM in any region Manage this VM with Azure CLU

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

Help me copy this VM in any region

Connect Start Stop Hibernate Capture Delete Refresh

Instructions Resources Image Gen2 Size Click See all sizes, click B-Series, select B1s, click Select at the bottom of the screen Authentication type Password Username azureuser Enter a custom password such as d!DkeBH90!!qd!DkeBH90!!q Password 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

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Create an Azure resource - Google Chrome

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

about:blank myRGKV-ld58250895 - Microsoft Edge https://portal.azure.com/#@cloudslice.onmicrosoft.com/resource/subscript... +

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Home > Resource Manager | Resource groups >

myRGKV-ld58250895 Resource group

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

Export resource groups using Bicep or Terraform +

Group by none JSON View

Essentials 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-582508955s_z1	Network Interface	East US 2
my-VM-58250895_disk1_99e5cefb2974405b	Disk	East US 2

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Instructions Resources Image Gen2 Size Click See all sizes, click B-Series, select B1s, click Select at the bottom of the screen Authentication type Password Username azureuser Enter a custom password such as d!DkeBH90!!qd!DkeBH90!!q Password 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.

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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.

VM1 - Microsoft Azure - Google Chrome
portal.azure.com/#@cloudslice.onmicrosoft.com/resource/subscriptions/8d7ebc7f-6c63-47b5-bbdc-6df02452b2bd/resourceGroups/AZ900RGlod5831199...
Microsoft Azure Search resources, services, and docs (G+)
Copilot
Home > CreateVm-MicrosoftWindowsServer-201-20260115212520 | Overview >
VM1 Virtual machine
Help me copy this VM in any region Manage this VM with Azure CLI
Search 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
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 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
Instructions Resources Help 19 Minutes Remaining
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...
Want to learn more? Review the documentation on:
Virtual machines
Check your work
Verify
Verifying that you have created an Azure virtual machine named VM1.
Congratulations! You have created an Azure virtual machine named VM1.
Previous Next: Review Azure virtual... >
9:32 PM 1/15/2026

VM2 - Microsoft Azure - Google Chrome
portal.azure.com/#@cloudslice.onmicrosoft.com/resource/subscriptions/8d7ebc7f-6c63-47b5-bbdc-6df02452b2bd/resourceGroups/AZ900RGlod5831199...
Microsoft Azure Search resources, services, and docs (G+)
Copilot
Home > Compute infrastructure | Virtual machines >
VM2 Virtual machine
Help me copy this VM in any region Manage this VM with Azure CLI
Search 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
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 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
Instructions Resources Help 18 Minutes Remaining
machine properties:
• The Get-AzVM cmdlet
• The az vm 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.
Previous Next >
9:33 PM 1/15/2026