

Task 1: Create a storage account using Azure Portal. Enable secure transfer, add tags, create a container, and upload a sample file. Share the container link with limited access.

Create a storage account

Create a storage account

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription *	Azure subscription 1
Resource group *	(New) rg-storage-demo

[Create new](#)

Instance details

Storage account name *	amithstoragedemo01
Region *	(Asia Pacific) Central India
Preferred storage type	Choose preferred storage type
Performance *	<input checked="" type="radio"/> Standard: Recommended for most scenarios (general-purpose v2 account) <input type="radio"/> Premium: Recommended for scenarios that require low latency.
Redundancy *	Locally-redundant storage (LRS)

i This helps us provide relevant guidance. It doesn't restrict your storage to this resource type. [Learn more](#)

[Previous](#)

[Next](#)

[Review + create](#)

Enable Secure Transfer

Basics Advanced Networking Data protection Encryption Tags Review + create

Security

Configure security settings that impact your storage account.

Require secure transfer for REST API operations	<input checked="" type="checkbox"/>
Allow enabling anonymous access on individual containers	<input type="checkbox"/>
Enable storage account key access	<input checked="" type="checkbox"/>
Default to Microsoft Entra authorization in the Azure portal	<input type="checkbox"/>
Minimum TLS version	Version 1.2
Permitted scope for copy operations (preview)	From any storage account

Hierarchical Namespace

Hierarchical namespace, complemented by Data Lake Storage Gen2 endpoint, enables file and directory semantics, accelerates big data analytics workloads, and enables access control lists (ACLs) [Learn more](#)

Enable hierarchical namespace	<input type="checkbox"/>
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Add tags

BasicsAdvancedNetworkingData protectionEncryptionTagsReview + create

Name	Value	Resource
Environment	Demo	All resources selected
Owner	Amith	All resources selected
Purpose	StorageAccountTask	All resources selected
		All resources selected

Create a Blob Container { Container}

amithstorage01 | Containers

Search

+ Add container Upload Refresh Delete Change access level Restore containers Edit columns

Search containers by prefix

Showing all 2 items

Name	Last modified	Anonymous access level	Lease state
\$logs	1/2/2026, 6:06:29 pm	Private	Available
sample-container	1/2/2026, 6:19:15 pm	Private	Available

Successfully created storage container 'sample-container'.

Upload a Sample File

sample-container

Search

+ Add Directory Upload Change access level Refresh Delete Copy Paste Rename Acquire lease Break lease Edit columns

sample-container

Authentication method: Access key (Switch to Microsoft Entra user account)

Add filter

Search blobs by prefix (case-sensitive)

Showing all 1 items

Name	Last modified	Access tier	Blob type	Size	Lease state
Amith_Acharya_Resume .pdf	1/2/2026, 6:20:14 pm	Hot (Inferred)	Block blob	240.19 KiB	Available

Click Generate SAS

sample-container

Authentication method: Access key (Switch to Microsoft Entra user account)

Add filter

Search blobs by prefix (case-sensitive)

Showing all 1 items

Name	Last modified	Access tier	Blob type	Size
Amith_Acharya_Resume .pdf	1/2/2026, 6:20:14 pm	Hot (Inferred)	Block blob	240.19 KiB

Properties

View/edit

Rename

Clone

Copy URL

Download

Change tier

Generate SAS

Acquire lease

Create snapshot

View snapshots

View versions

Delete

Generate SAS



☒ Account key ☐ User delegation key

Signing key ⓘ

Key 1 ▾

Stored access policy

None ▾

Permissions * ⓘ

Read ▾

Start and expiry date/time ⓘ

Start

02/01/2026  6:07:18 PM

(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi ▾

Expiry

02/02/2026  2:22:18 AM

(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi ▾

Allowed IP addresses ⓘ

for example, 168.1.5.65 or 168.1.5.65-168.1....


Allowed protocols ⓘ

☒ HTTPS only ☐ HTTPS and HTTP


Generate SAS token and URL

Generate SAS token and URL

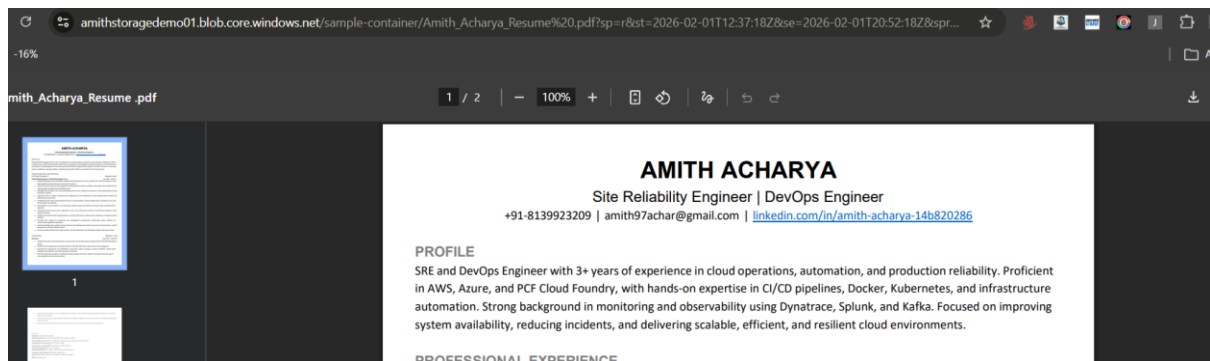
Blob SAS token ⓘ

sp=r&st=2026-02-01T12:37:18Z&se=2026-02-01T20:52:18Z&spr=https&sv=2024-1... 

Blob SAS URL

https://amithstoragedemo01.blob.core.windows.net/sample-container/Amith_Achary... 

Anyone with this link can **read the file**



Task 2: Create a VM (use existing if needed), set up Azure Monitor to track CPU usage, and configure an alert to notify via email if CPU exceeds 80% over a 5-minute period

Home > Compute infrastructure | Virtual machines >

Create a virtual machine

Help me create a VM optimized for high availability Help me create a low cost VM Help me

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](#)

i This subscription may not be eligible to deploy VMs of certain sizes in certain regions.

Project details

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

Subscription * ⓘ Azure subscription 1

Resource group * ⓘ rg-storage-demo
[Create new](#)

Instance details

Virtual machine name * ⓘ vm-cpu-demo ✓

Region * ⓘ (Asia Pacific) Central India
[Deploy to an Azure Extended Zone](#)

< Previous Next : Disks > Review + create

Let Azure assign the best zone for your needs

Using an Azure-selected zone is not supported in region 'Central India'.

Availability zone * ⓘ

Zone 1

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

Security type ⓘ

Trusted launch virtual machines

[Configure security features](#)

Image * ⓘ

Ubuntu Server 24.04 LTS - x64 Gen2 (free services eligible)

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

VM architecture ⓘ

☐ Arm64

☒ x64

Run with Azure Spot discount ⓘ

☐

You are in the free trial period. Costs associated with this VM can be covered by any remaining credits on your subscription. [Learn more](#)

Size * ⓘ

Standard_D2ds_v6 - 2 vcpus, 8 GiB memory (\$95.63)

< Previous

Next : Disks >

Review + create

Administrator account

Authentication type ⓘ

☐ SSH public key

☒ Password

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 *

HTTP (80), HTTPS (443), 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.

< Previous

Next : Disks >

Review + create

CreateVm-canonical.ubuntu-24_04-lts-server-20260201185124 | Overview

Deployment

Search

×

«

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

✓

Your deployment is complete

Deployment name: CreateVm-canonical.ubuntu-24_04-lts-server-2...

Subscription: [Azure subscription 1](#)

Resource group: [rg-storage-demo](#)

Start time: 2/1/2026, 6:56:33 PM

Correlation ID: 951cc9d9-8059-4aca-8300-e9e11752e2ad

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

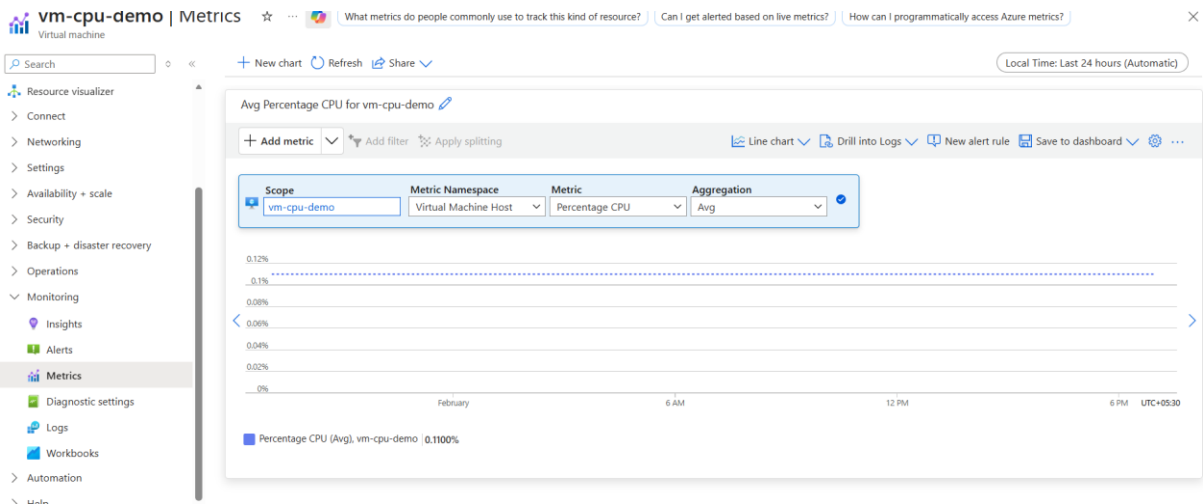
Create another VM

Give feedback

Tell us about your experience with deployment

Connected to linux VM

Go to CPU Usage Metric



Configure Alert Condition

Create an alert rule

Scope Condition Actions Details Tags Review + create

Configure when the alert rule should trigger by selecting a signal and defining its logic.

Signal name * ⓘ Percentage CPU See all signals

Alert logic

Threshold type ⓘ ☒ Static ☐ Dynamic

Aggregation type ⓘ Average

Value is ⓘ Greater than

Threshold * ⓘ 80 %

When to evaluate

Check every ⓘ 5 minutes

Lookback period ⓘ 5 minutes

Create action group ...

Basics Notifications Actions Tags Review + create

An action group invokes a defined set of notifications and actions when an alert is triggered. [Learn more](#)

Project details

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

Subscription ⓘ

Azure subscription 1

Resource group * ⓘ

rg-storage-demo

[Create new](#)

Region *

Global

Instance details

Action group name * ⓘ

cpu-alert-email

✓

Display name * ⓘ



CPUAlert

✓

The display name is limited to 12 characters

Basics **Notifications** Actions Tags Review + create

Choose how to get notified when the action group is triggered. This step is optional.

Notification type ⓘ	Name ⓘ	Selected ⓘ
Email/SMS message... ⌵	emailalert ✓	Email  
⌵		

Alert rule created.

Alert rules ... ×

[+ Create](#) | [Columns](#) | [Refresh](#) | [Export to CSV](#) | [Open query](#) | [Delete](#) | [Enable](#) | [Disable](#)

Subscription : **Azure subscription 1** | Target scope : **all** | Target resource type : **all** | Signal type : **all** | Severity : **all** | [Add tag filter](#) | [More \(1\)](#) | **No grouping** ⌵

Name ⬆	Condition	Severity ⬆	Target scope	Target resource type	Signal type ⬆	Status ⬆	
<input type="checkbox"/> High CPU Alert - VM	Percentage CPU > 80	2 - Warning	vm-cpu-demo	Virtual machine	Metrics	Enabled	...



You've been added to an Azure Monitor action group

You are now in the CPUAlert action group and will receive notifications sent to the group.

[View details on Azure Monitor action groups >](#)

Account information

Subscription ID: 836F3BF3-EB77-4B81-BE9C-88D7E07E0DA7

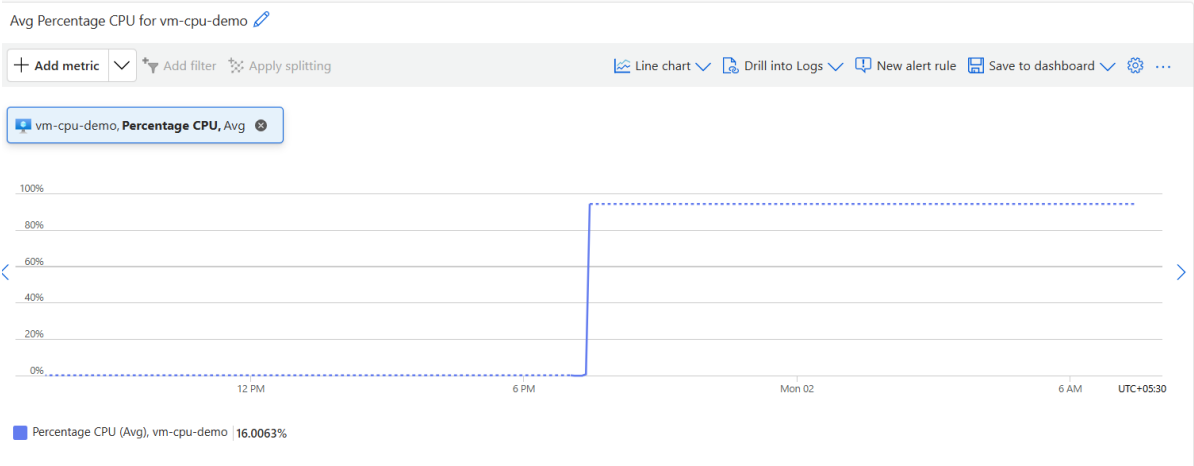
Resource group name: rg-storage-demo

Action group name: cpu-alert-email

Installing stress command for testing.

```
sudo apt update
sudo apt install stress -y
stress --cpu 2 --timeout 300
```

VM is 80% cpu consumed.



Email is triggered to mail.

Azure: Activated Severity: 2 High CPU Alert - VM Inbox x

Microsoft Azure <azure-noreply@microsoft.com> to me Unsubscribe

7:30 PM (1 minute ago)

⚠ Your Azure Monitor alert was triggered

Azure monitor alert rule High CPU Alert - VM was triggered for vm-cpu-demo at February 1, 2026 14:00 UTC.

Alert rule description	High CPU Alert - VM
Rule ID	/subscriptions/836f3bf3-eb77-4b81-be9c-88d7e07e0da7/resourceGroups/rg-storage-demo/providers/microsoft.insights/metricAlerts/High CPU Alert - VM View Rule >
Resource ID	/subscriptions/836f3bf3-eb77-4b81-be9c-88d7e07e0da7/resourceGroups/rg-storage-demo/providers/Microsoft.Compute/virtualMachines/vm-cpu-demo View Resource >

