

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 *

Resource group * [Create new](#)

Instance details

Storage account name *

Region * [Deploy to an Azure Extended Zone](#)

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

Performance * Standard: Recommended for most scenarios (general-purpose v2 account)
 Premium: Recommended for scenarios that require low latency.

Redundancy *

[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

Allow enabling anonymous access on individual containers

Enable storage account key access

Default to Microsoft Entra authorization in the Azure portal

Minimum TLS version

Permitted scope for copy operations (preview)

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

Add tags

Basics Advanced Networking Data protection Encryption Tags Review + 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 }

The screenshot shows the 'Containers' blade for the storage account 'amithstoragedemo01'. It displays a table of containers with two items: 'Logs' and 'sample-container'. A success message at the top right states: 'Successfully created storage container 'sample-container''. The left sidebar includes links for Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), and Data migration.

Upload a Sample File

The screenshot shows the 'sample-container' overview page. It lists one blob named 'Amith_Acharya_Resume.pdf' with details: Last modified 1/2/2026, 6:20:14 pm, Access tier Hot (Inferred), Blob type Block blob, Size 240.19 KB, and Lease state Available. The left sidebar shows options like Overview, Diagnose and solve problems, Access Control (IAM), Settings, Shared access tokens, Access policy, Properties, and Metadata.

Click Generate SAS

The screenshot shows the same 'sample-container' overview page as above. A context menu is open over the file 'Amith_Acharya_Resume.pdf', with 'Generate SAS' highlighted. Other options in the menu include Properties, View/edit, Rename, Clone, Copy URL, Download, Change tier, Acquire lease, Create snapshot, View snapshots, View versions, and Delete.

Generate SAS

X

Account key User delegation key

Signing key (i)

Key 1



Stored access policy

None



Permissions * (i)

Read



Start and expiry date/time (i)

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 (i)

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

Allowed protocols (i)

HTTPS only HTTPS and HTTP

Generate SAS token and URL

Generate SAS token and URL

Blob SAS token (i)

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

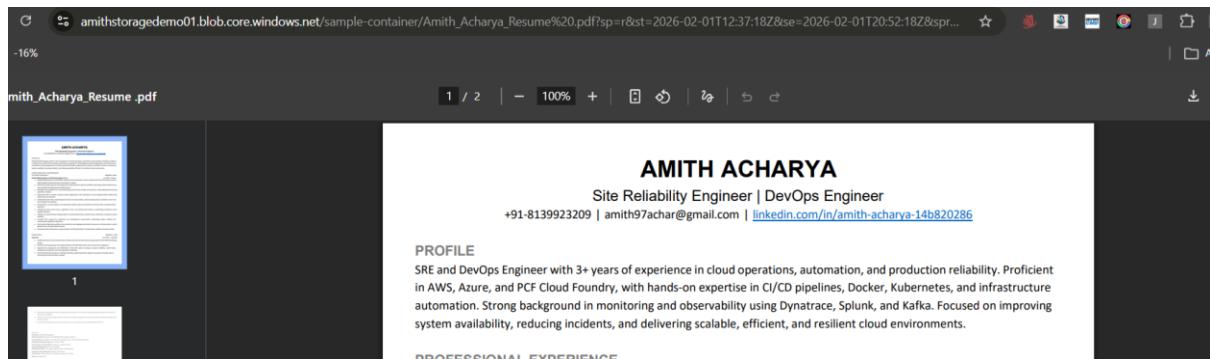


Blob SAS URL

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](#)

 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 ⓘ

i 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 X < >

Delete Cancel Redeploy Download Refresh

Overview

Your deployment is complete

Deployment name: CreateVm-canonical.ubuntu-24_04-lts-server-2... Start time: 2/1/2026, 6:56:33 PM

Subscription: Azure subscription Correlation ID: 951cc9d9-8059-4aca-8300-e9e11752e2ad

Resource group: rg-storage-demo

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

vm-cpu-demo | Connect

Virtual machine

Search X < >

Now view, configure, and even save your connection settings — all in one place. Have comments or suggestions for our new Connect experience? [Pro](#)

Refresh Reset password or keys Manage JIT Troubleshoot Feedback

Native SSH

Source machine

Source machine OS Windows

Source IP address Local IP | 103.87.94.145 Connecting over a VPN?

Destination VM

VM IP address Public IP | 98.70.33.82

VM port 22

Connection prerequisites

VM access Check inbound NSG rules

Check access

SSH command

Execute in your choice of local shell ssh azureuser@98.70.33.82

Forgot password? [Reset password](#)

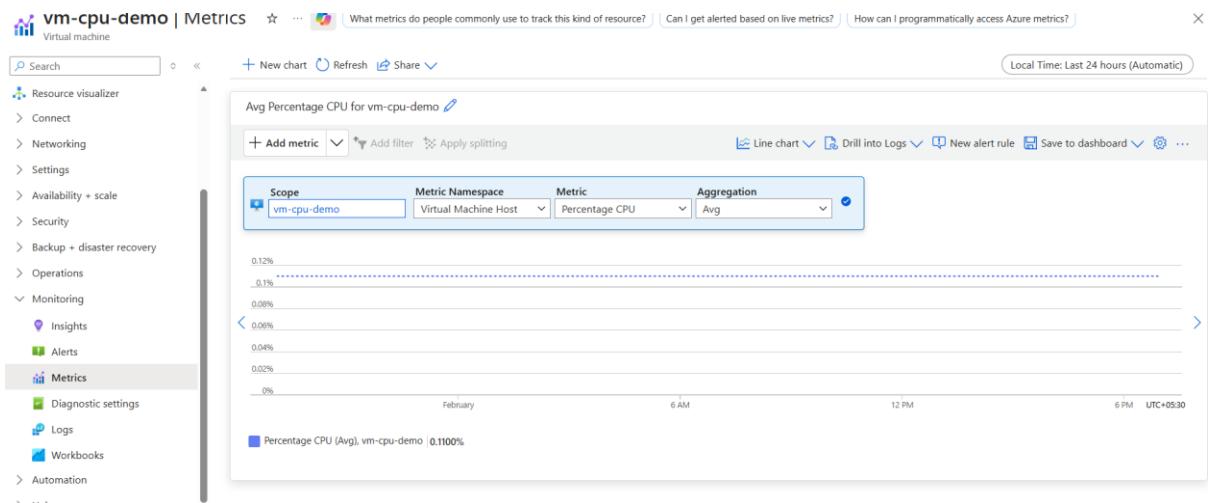
Edit settings

More ways to connect (4)

Connected to linux VM

```
azureuser@vm-cpu-demo:~$ ls
azureuser@vm-cpu-demo:~$ sudo -i
root@vm-cpu-demo:~# ls
root@vm-cpu-demo:~# ls -a
. .. .bashrc .profile .ssh
root@vm-cpu-demo:~# ls
root@vm-cpu-demo:~# cd /
root@vm-cpu-demo:/# ls
bin boot etc lib lib64 media opt root sbin snap sys usr
bin.usr-is-merged dev home lib.usr-is-merged lost+found mnt proc run sbin.usr-is-merged srv tmp var
root@vm-cpu-demo:/# cd ~
root@vm-cpu-demo:~# ls
root@vm-cpu-demo:~# ls -a
. .. .bashrc .profile .ssh
root@vm-cpu-demo:~# ls
root@vm-cpu-demo:~# |
```

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 ⓘ

Resource group * ⓘ [Create new](#)

Region *

Instance details

Action group name * ⓘ ✓

Display name * ⓘ ✓

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 ✓
		Edit Delete

Alert rule created.

Alert rules ...

Alert rules							
Name ↗		Condition	Severity ↗	Target scope	Target resource type	Signal type ↗	Status ↗
<input type="checkbox"/> High CPU Alert - VM	Percentage CPU > 80	12 - 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

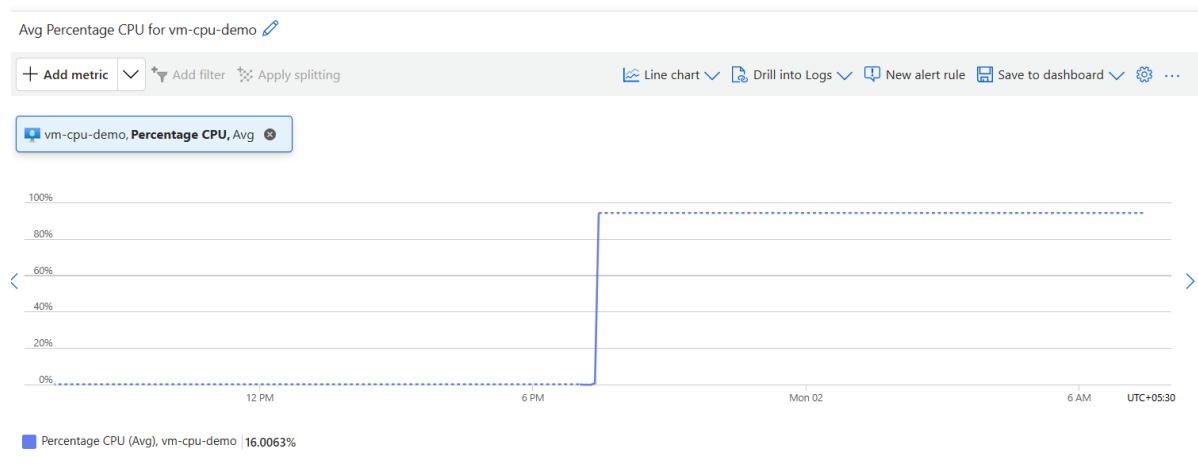
Installing stress command for testing.

```
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]

Microsoft Azure <azure-noreply@microsoft.com> Unsubscribe
to me ▾ 7:30 PM (1 minute ago)

Microsoft Azure

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

