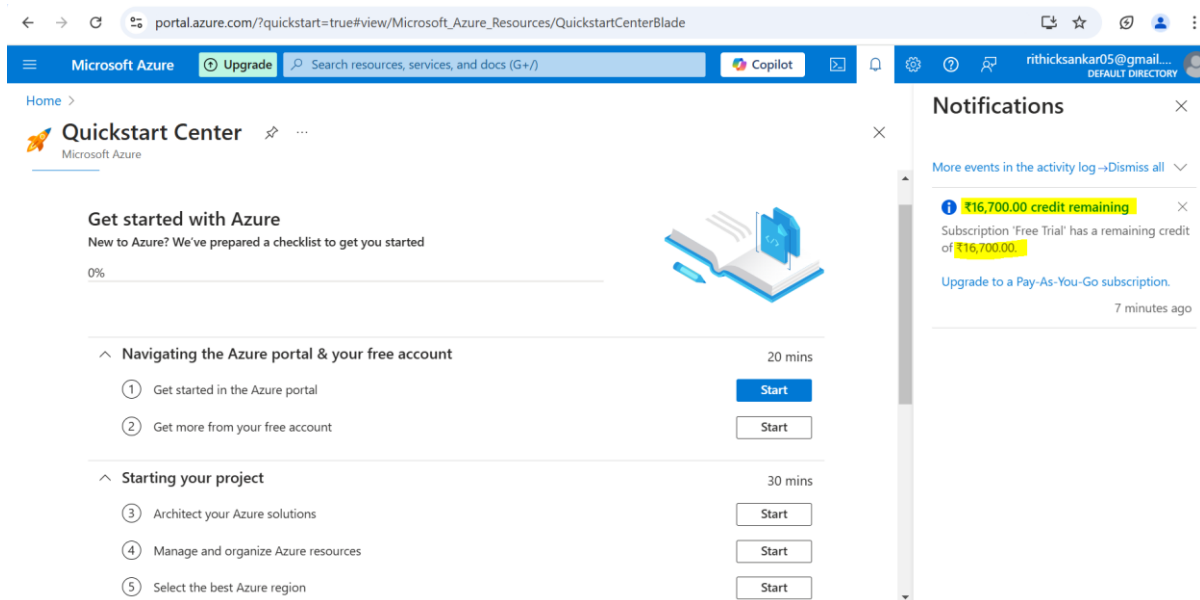


21.11.2024

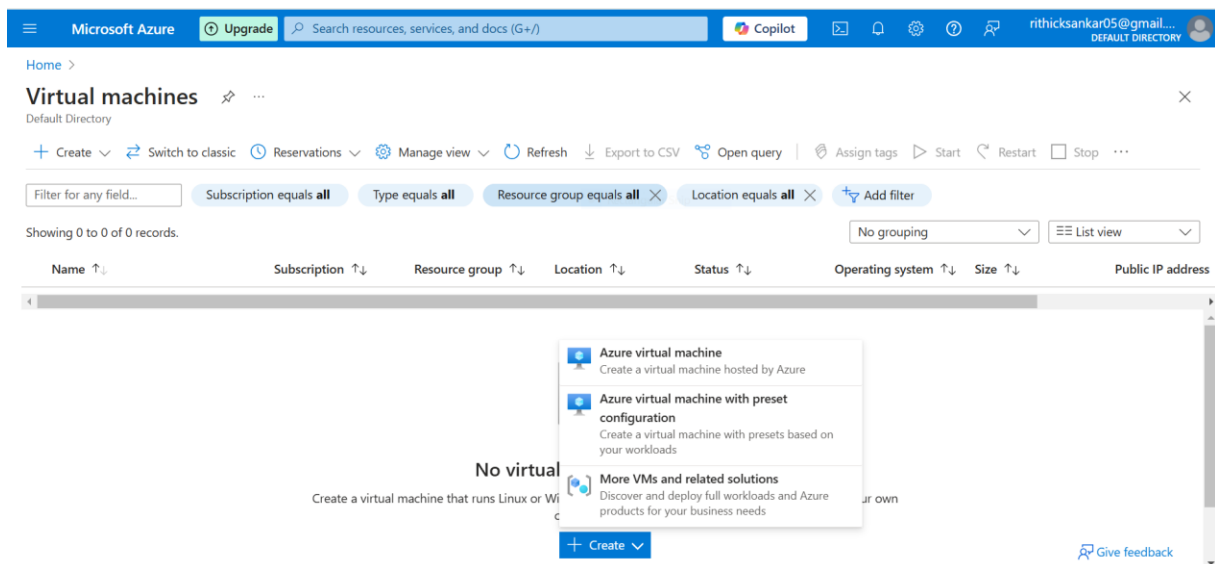
## Virtual Machine Creation in Microsoft Azure

Following are the steps to create a virtual machine in azure:

- After creating the Azure account, we will be getting 16,700 rupees as free trial credit.



After that we have to navigate to the Services menu and select the virtual machine. In that we have to select create a new virtual machine.



After selecting create new virtual machine we have make all the basic configurations.

The screenshot shows the 'Create a virtual machine' page in the Microsoft Azure portal. The top navigation bar includes the Microsoft Azure logo, an 'Upgrade' button, a search bar, and a 'Copilot' button. The breadcrumb trail is 'Home >'. The main heading is 'Create a virtual machine'. Below the heading are three help buttons: 'Help me create a low cost VM', 'Help me create a VM optimized for high availability', and 'Help me choose the right VM size for my workload'. The 'Project details' section instructs the user to select a subscription and resource group. The 'Subscription' dropdown is set to 'Free Trial', and the 'Resource group' dropdown is set to '(New) SANKAR-RAM' with a 'Create new' link below it. The 'Instance details' section includes fields for 'Virtual machine name' (SANKAR-VM-01), 'Region' ((Europe) France Central), and 'Availability options' (Availability zone). Each field has a green checkmark indicating it is valid.

Home >

## Create a virtual machine

[Help me create a low cost VM](#) [Help me create a VM optimized for high availability](#) [Help me choose the right VM size for my workload](#)

**Project details**

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

Subscription \* ⓘ Free Trial

Resource group \* ⓘ (New) SANKAR-RAM [Create new](#)

**Instance details**

Virtual machine name \* ⓘ SANKAR-VM-01 ✓

Region \* ⓘ (Europe) France Central

Availability options ⓘ Availability zone

Then we have to select which OS do we want in our virtual machine.

This screenshot shows the lower portion of the 'Create a virtual machine' page. The 'Zone options' section has two radio buttons: 'Self-selected zone' (selected) and 'Azure-selected zone (Preview)'. The 'Availability zone' dropdown is set to 'Zone 1'. Below this, a message states: 'You can now select multiple zones. Selecting multiple zones will create one VM per zone. [Learn more](#)'. The 'Security type' dropdown is set to 'Trusted launch virtual machines'. The 'Image' dropdown is set to 'Ubuntu Server 24.04 LTS - x64 Gen2 (free services eligible)'. The 'VM architecture' section has two radio buttons: 'Arm64' and 'x64' (selected). The 'Run with Azure Spot discount' checkbox is unchecked.

Home > Virtual machines >

## Create a virtual machine

[Help me create a low cost VM](#) [Help me create a VM optimized for high availability](#) [Help me choose the right VM size for my workload](#)

**Zone options** ⓘ

☒ Self-selected zone  
Choose up to 3 availability zones, one VM per zone

☐ Azure-selected zone (Preview)  
Let Azure assign the best zone for your needs

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 ⓘ ☐

After all the configuration it all will be shown in the Review + Create tab.

portal.azure.com/?quickstart=true#create/Microsoft.VirtualMachine

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

Home >

## Create a virtual machine

Validation passed

Help me create a low cost VM Help me create a VM optimized for high availability Help me choose the right VM size for my workload

**Basics**

Subscription	Free Trial
Resource group	(new) SANKAR-RAM
Virtual machine name	SANKAR-VM-01
Region	France Central
Availability options	Availability zone
Zone options	Self-selected zone
Availability zone	1
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No

portal.azure.com/?quickstart=true#create/Microsoft.VirtualMachine

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## Create a virtual machine

Validation passed

Help me create a low cost VM Help me create a VM optimized for high availability Help me choose the right VM size for my workload

Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Image	Ubuntu Server 24.04 LTS - Gen2
VM architecture	x64
Size	Standard B1s (1 vcpu, 1 GiB memory)
Enable Hibernation	No
Authentication type	Password
Username	sankar_05
Public inbound ports	SSH
Azure Spot	No

## Disks Information:

portal.azure.com/?quickstart=true#create/Microsoft.VirtualMachine

Microsoft Azure

Upgrade

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Copilot

Home >

Create a virtual machine ...

Validation passed

Help me create a low cost VM

Help me create a VM optimized for high availability

Help me choose the right VM size for my workload

Disks

OS disk size	Image default
OS disk type	Premium SSD LRS
Use managed disks	Yes
Delete OS disk with VM	Enabled
Ephemeral OS disk	No

Networking

Virtual network	(new) SANKAR-VM-01-vnet
Subnet	(new) default (10.0.0/24)
Public IP	(new) SANKAR-VM-01-ip

Management Information:

portal.azure.com/?quickstart=true#create/Microsoft.VirtualMachine

Microsoft Azure

Upgrade

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Copilot

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Create a virtual machine ...

Validation passed

Help me create a low cost VM

Help me create a VM optimized for high availability

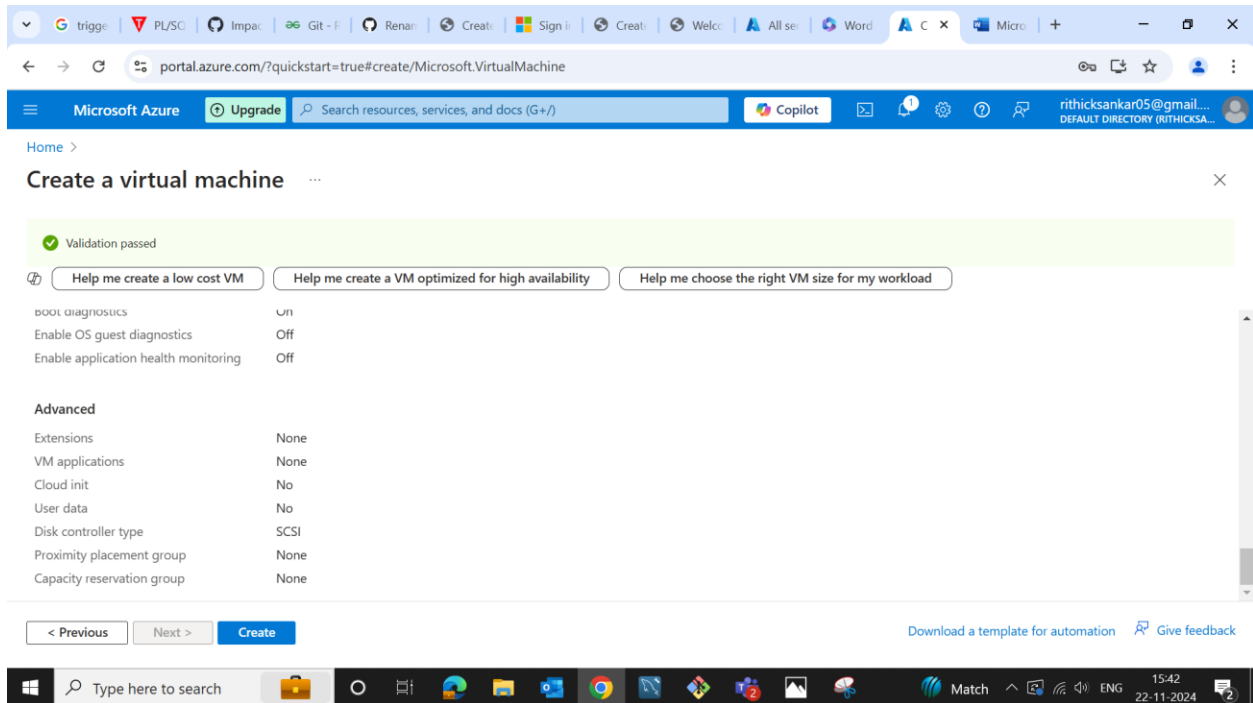
Help me choose the right VM size for my workload

Accelerated networking	Off
Place this virtual machine behind an existing load balancing solution?	No
Delete public IP and NIC when VM is deleted	Disabled

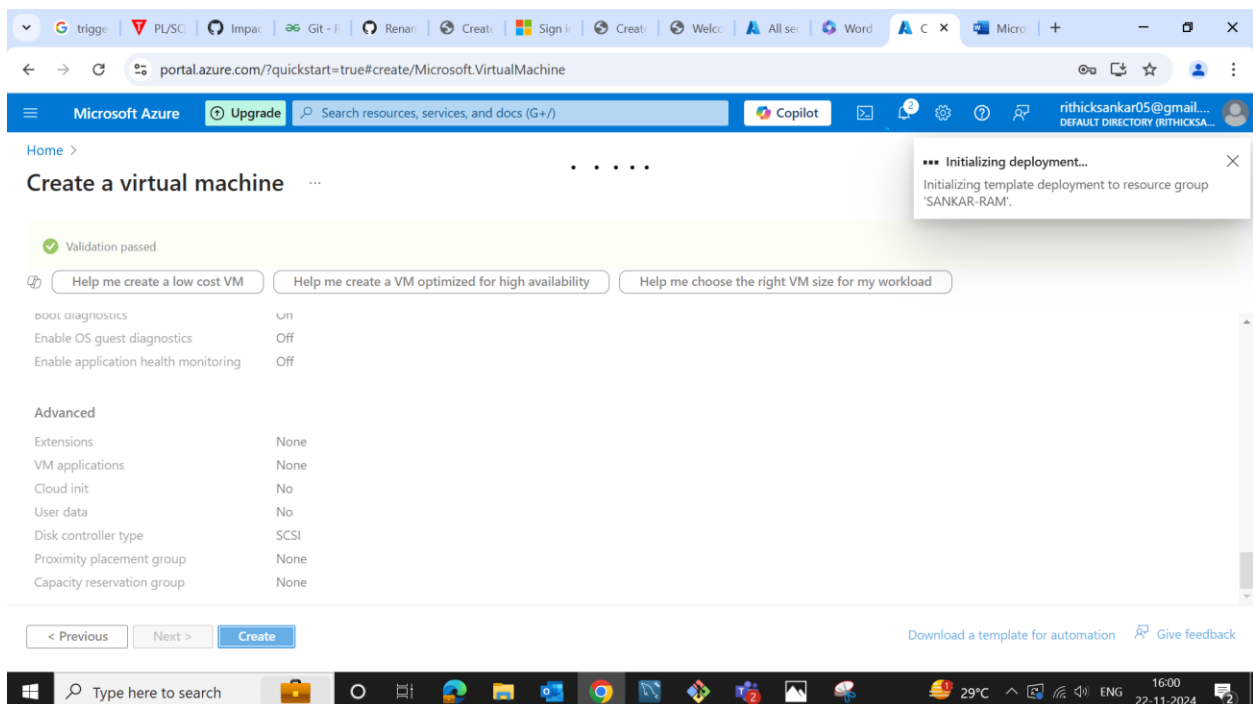
Management

Microsoft Defender for Cloud	Basic (free)
System assigned managed identity	Off
Login with Microsoft Entra ID	Off
Auto-shutdown	Off
Backup	Disabled

Monitoring Information:



After all the configurations we can click on create then it will start to initialize the deployment.



Then it will submit the deployment

portal.azure.com/?quickstart=true#create/Microsoft.VirtualMachine

Microsoft Azure Upgrade Search resources, services, and docs (G+/) Copilot rithicksankar05@gmail... DEFAULT DIRECTORY (RITHICKSA...

Home >

Create a virtual machine ...

Validation passed

Help me create a low cost VM

Help me create a VM optimized for high availability

Help me choose the right VM size for my workload

boot diagnostics

Enable OS guest diagnostics

Enable application health monitoring

On

Off

Off

Advanced

Extensions

VM applications

Cloud init

User data

Disk controller type

Proximity placement group

Capacity reservation group

None

None

No

No

SCSI

None

None

< Previous

Next >

Create

Download a template for automation

Give feedback

Submitting deployment...

Submitting the deployment template for resource group 'SANKAR-RAM'.

Type here to search

29°C

16:00

22-11-2024

Microsoft Azure portal showing the deployment details for the resource group 'SANKAR-RAM'. The deployment is in progress.

**Deployment details:**

Resource	Type	Status	Operation details
SANKAR-VM-01	Microsoft.Compute/vir...	Created	<a href="#">Operation details</a>
sankar-vm-01984_z1	Microsoft.Network/net...	Created	<a href="#">Operation details</a>
SANKAR-VM-01-vnet	Microsoft.Network/virt...	OK	<a href="#">Operation details</a>
SANKAR-VM-01-nsg	Microsoft.Network/net...	OK	<a href="#">Operation details</a>
SANKAR-VM-01-ip	Microsoft.Network/pu...	OK	<a href="#">Operation details</a>

Once the deployment is completed it will show the success notification.

Microsoft Azure portal showing the deployment details for a virtual machine named **CreateVm-canonical.ubuntu-24\_04-lts-server-20241122152015**. The deployment is complete and successful.

**Deployment details:**

- Deployment name: CreateVm-canonical.ubuntu-24\_04-lts-server-20241122152015
- Subscription: Free Trial
- Resource group: SANKAR-RAM
- Start time: 11/22/2024, 4:00:17 PM
- Correlation ID: 2d29aa20-2f59-4eee-a312-e

**Next steps:**

- Setup auto-shutdown (Recommended)
- Monitor VM health, performance and network dependencies (Recommended)
- Run a script inside the virtual machine (Recommended)

**Cost Management:** Get notified to stay within your budget and prevent unexpected charges on your bill. [Set up cost alerts >](#)

**Microsoft Defender for Cloud:** Secure your apps and infrastructure. [Go to Microsoft Defender for Cloud >](#)

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## Overview of the Virtual Machine:

Microsoft Azure portal showing the overview of the virtual machine named **SANKAR-VM-01**.

**Essentials:**

- Resource group: [SANKAR-RAM](#)
- Status: Running
- Location: France Central (Zone 1)
- Subscription: [Free Trial](#)
- Subscription ID: 96a757dd-6133-4661-8931-d9f5d3bbb9bb
- Availability zone: 1

**Operating system:** Linux (ubuntu 24.04)

**Size:** Standard B1s (1 vcpu, 1 GiB memory)

**Public IP address:** [98.66.234.21](#)

**Virtual network/subnet:** [SANKAR-VM-01-vnet/default](#)

**DNS name:** [Not configured](#)

**Health state:** -

**Time created:** 11/22/2024, 10:30 AM UTC



portal.azure.com/?quickstart=true#@rithicksankar05gmail.onmicrosoft.com/resource/subscriptions/96a757dd-6133-4661-8931-d9f5d3bbb9bb/reso...

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Home > SANKAR-VM-01 Virtual machine

Search Help me copy this VM in any region

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Connect
- Networking
- Settings
- Availability + scale
- Security
- Backup + disaster recovery
- Operations
- Monitoring

Properties

Virtual machine	
Computer name	SANKAR-VM-01
Operating system	Linux (ubuntu 24.04)
VM generation	V2
VM architecture	x64
Agent status	Ready
Agent version	2.12.0.2
Hibernation	Disabled
Host group	-
Host	-
Proximity placement group	-
Colocation status	N/A

Networking

Public IP address	98.66.234.21 (Network interface sankar-vm-01984_z1)
Public IP address (IPv6)	-
Private IP address	10.0.0.4
Private IP address (IPv6)	-
Virtual network/subnet	SANKAR-VM-01-vnet/default
DNS name	Configure

Size

Size	Standard B1s
vCPUs	1
RAM	1 GiB

portal.azure.com/?quickstart=true#@rithicksankar05gmail.onmicrosoft.com/resource/subscriptions/96a757dd-6133-4661-8931-d9f5d3bbb9bb/reso...

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Overview

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- Monitoring

Host group -

Host -

Proximity placement group -

Colocation status N/A

Capacity reservation group -

Disk controller type SCSI

Azure Spot

Azure Spot	-
Azure Spot eviction policy	-

Availability + scaling

Availability zone	(edit) 1
-------------------	----------

Size

Size	Standard B1s
vCPUs	1
RAM	1 GiB

Source image details

Source image publisher	canonical
Source image offer	ubuntu-24_04-lts
Source image plan	server

Disk

OS disk	SANKAR-VM-01_OsDisk_1_602f8e773c124b64899cb27ef6ea6426
Encryption at host	Disabled
Azure disk encryption	Not enabled