

Name : Bharath S

Practice: IAS – app service

## 1). Created account and clicked a virtual machine

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

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Create a virtual machine

Changing Basic options may reset selections you have made. Review all options prior to creating the 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 \*   
Resource group \*   
[Create new](#)

**Instance details**

Virtual machine name \*   
Region \*

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## 2. created name of Task1 and chosen the region, available and zone

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Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.

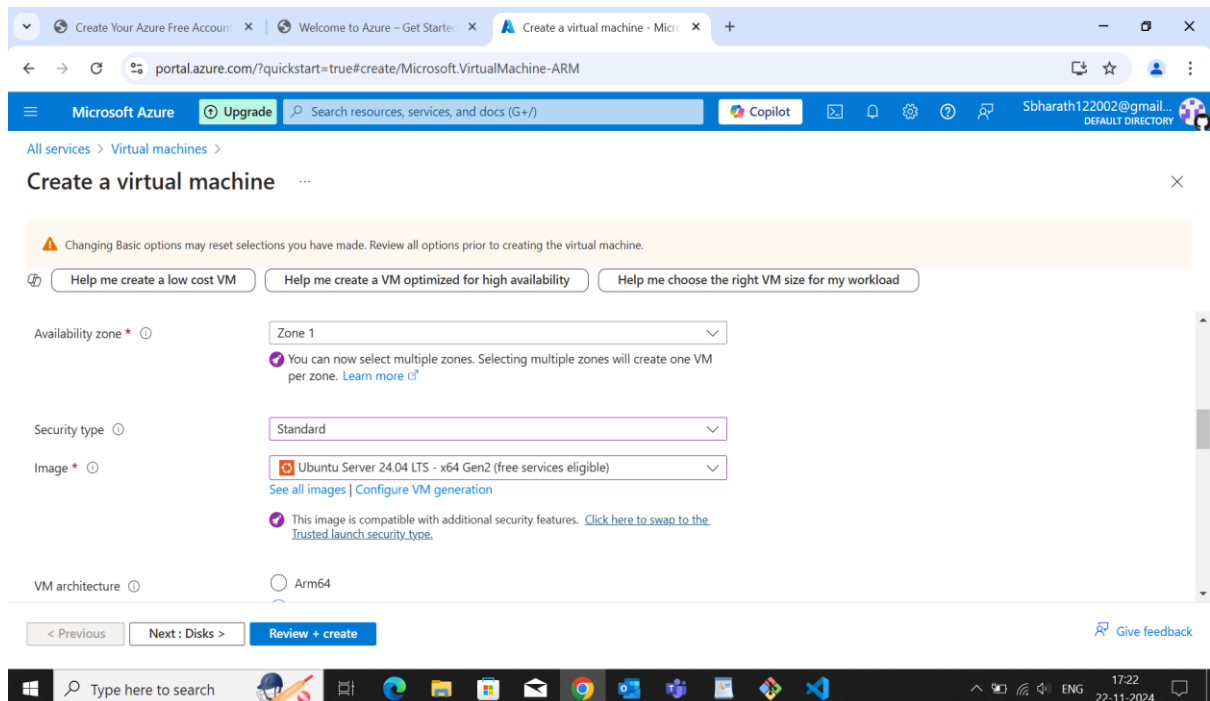
Help me create a low cost VM Help me create a VM optimized for high availability Help me choose the right VM size for my workload

**Instance details**

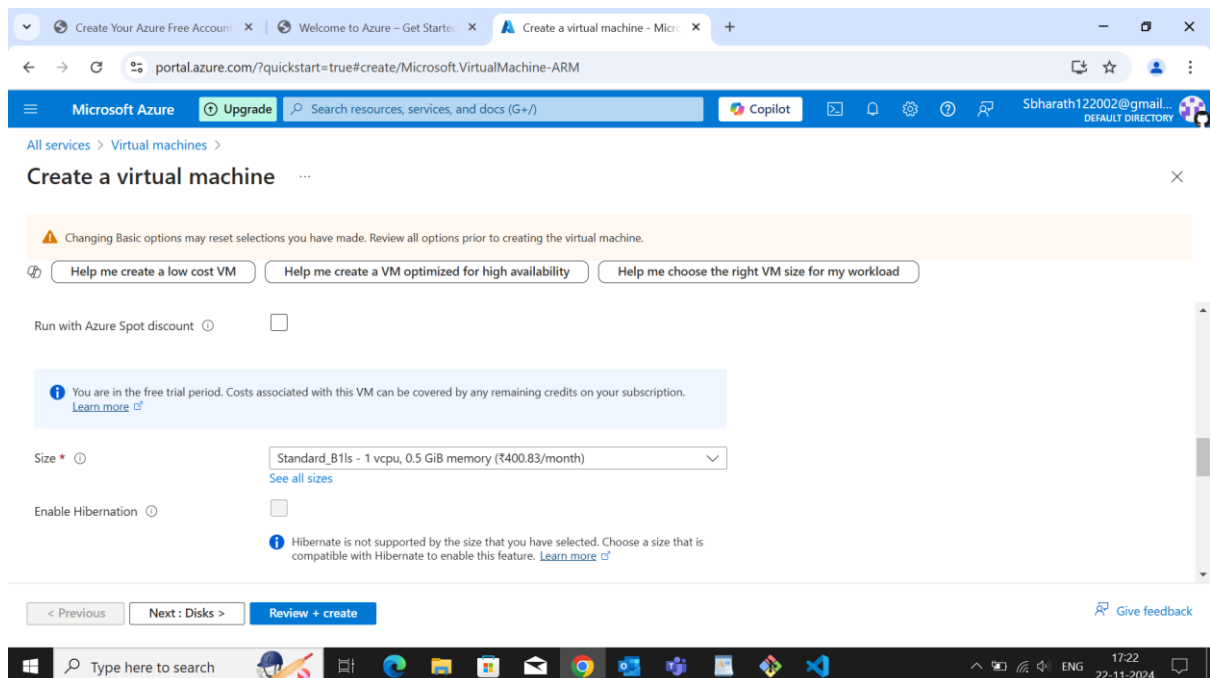
Virtual machine name \*   
Region \*   
Availability options   
Zone options ☒ Self-selected zone  
Choose up to 3 availability zones, one VM per zone  
☐ Azure-selected zone (Preview)  
Let Azure assign the best zone for your needs  
Availability zone \*   
You can now select multiple zones. Selecting multiple zones will create one VM.

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3. selected security type as standard and used ubuntu server free service.



4. select the required size memory



5. I used Authentication as SSH public Key for easy access

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## Create a virtual machine

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Basics **Disks** Networking Management Monitoring Advanced Tags Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

### VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host ☐

Encryption at host is not registered for the selected subscription. [Learn more](#)

OS disk

OS disk size

OS disk type \*

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## 6. slected inbound port to HTTP(80), SSH(22)

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## Create a virtual machine

Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.

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### 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 \*

All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

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connectivity SLA.

Delete with VM☒

Key managementPlatform-managed key

Enable Ultra Disk compatibility☐

Data disks for Task1

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

LUN	Name	Size (GiB)	Disk type	Host caching	Delete with VM
-----	------	------------	-----------	--------------	----------------

[Create and attach a new disk](#)[Attach an existing disk](#)

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Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.  
[Learn more](#)

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network \*  
[Create new](#)

Subnet \*  
[Create new](#)

Public IP  
[Create new](#)

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Delete public IP and NIC when VM is deleted

☒

Enable accelerated networking

☐

The resource provider 'Microsoft.Network' should be registered in order to enable accelerated networking. [Learn more](#)

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Load balancing options

☒ None

☐ Azure load balancer

Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.

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Configure management options for your VM.

Microsoft Defender for Cloud

Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

Your subscription is protected by Foundational Cloud Security Posture Management Free Plan.

Identity

Enable system assigned managed identity

☐

Microsoft Entra ID

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User Login is required when using Microsoft Entra ID login. [Learn more](#)

Microsoft Entra ID login now uses SSH certificate-based authentication. You will need to use an SSH client that supports OpenSSH certificates. You can use Azure CLI or Cloud Shell from the Azure Portal. [Learn more](#)

**Auto-shutdown**  
Enable auto-shutdown ☐

**Backup**  
Enable backup ☐

**Guest OS updates**  
Patch orchestration options

Some patch orchestration options are not available for this image. [Learn more](#)

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go.microsoft.com/fwlink/?LinkId=2027915

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Basics Disks Networking Management **Monitoring** Advanced Tags Review + create

Configure monitoring options for your VM.

**Alerts**  
Enable recommended alert rules ☐

**Diagnostics**  
Boot diagnostics ☒ Enable with managed storage account (recommended)  
☐ Enable with custom storage account  
☐ Disable

Enable OS guest diagnostics ☐

**Health**

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Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name	Value	Resource
	:	14 selected

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Price

1 X Standard B1ls  
by Microsoft  
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply  
**0.5491 INR/hr**  
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional

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Basics

Subscription	Free Trial
Resource group	(new) Training1
Virtual machine name	Task1
Region	Australia East
Availability options	Availability zone
Zone options	Self-selected zone
Availability zone	1
Security type	Standard
Image	Ubuntu Server 24.04 LTS - Gen2
VM architecture	x64
Size	Standard B1ls (1 vcpu, 0.5 GiB memory)

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Authentication typeSSH public key

Username	Bharath
SSH Key format	RSA
Key pair name	Task1_key
Public inbound ports	HTTP, SSH
Azure Spot	No

Disks

OS disk size	Image default
OS disk type	Standard HDD LRS
Use managed disks	Yes
Delete OS disk with VM	Enabled

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Networking

Virtual network	(new) Task1-vnet
Subnet	(new) default (10.0.0.0/24)
Public IP	(new) Task1-ip
Accelerated networking	Off
Place this virtual machine behind an existing load balancing solution?	No
Delete public IP and NIC when VM is deleted	Enabled

Management

Microsoft Defender for Cloud	Basic (free)
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Microsoft Defender for Cloud

Microsoft Defender for Cloud	Basic (free)
System assigned managed identity	Off
Login with Microsoft Entra ID	Off
Auto-shutdown	Off
Backup	Disabled
Enable hotpatch	Off
Patch orchestration options	Image Default

Monitoring

Alerts	Off
Boot diagnostics	On

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boot diagnostics	On
Enable OS guest diagnostics	Off
Enable application health monitoring	Off

**Advanced**

Extensions	None
VM applications	None
Cloud init	No
User data	No
Disk controller type	SCSI
Proximity placement group	None
Capacity reservation group	None

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## Create a virtual machine

Submitting deployment...  
Submitting the deployment template for resource group "Training1".

Validation passed

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boot diagnostics	On
Enable OS guest diagnostics	Off
Enable application health monitoring	Off

**Advanced**

Extensions	None
VM applications	None
Cloud init	No
User data	No
Disk controller type	SCSI
Proximity placement group	None
Capacity reservation group	None

### Generate new key pair

An SSH key pair contains both a public key and a private key. **Azure doesn't store the private key.** After the SSH key resource is created, you won't be able to download the private key again. [Learn more](#)

Download private key and create resource

Return to create a virtual machine

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portal.azure.com/?quickstart=true#view/HubsExtension/DeploymentDetailsBlade/~/\_/overview/id/%2Fsubscriptions%2Fa70deb61-ee28-4f08-b2f4-c8... x

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CreateVm-canonical.ubuntu-24\_04-lts-server-20241122171304 | Overview x

Deployment

Search x <<

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: CreateVm-canonical.ubuntu-24\_04-... Start time: 11/22/2024, 5:25:55 PM

Subscription: [Free Trial](#) Correlation ID: 890c47bd-54b7-4fb5-9069-b

Resource group: [Training1](#)

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

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