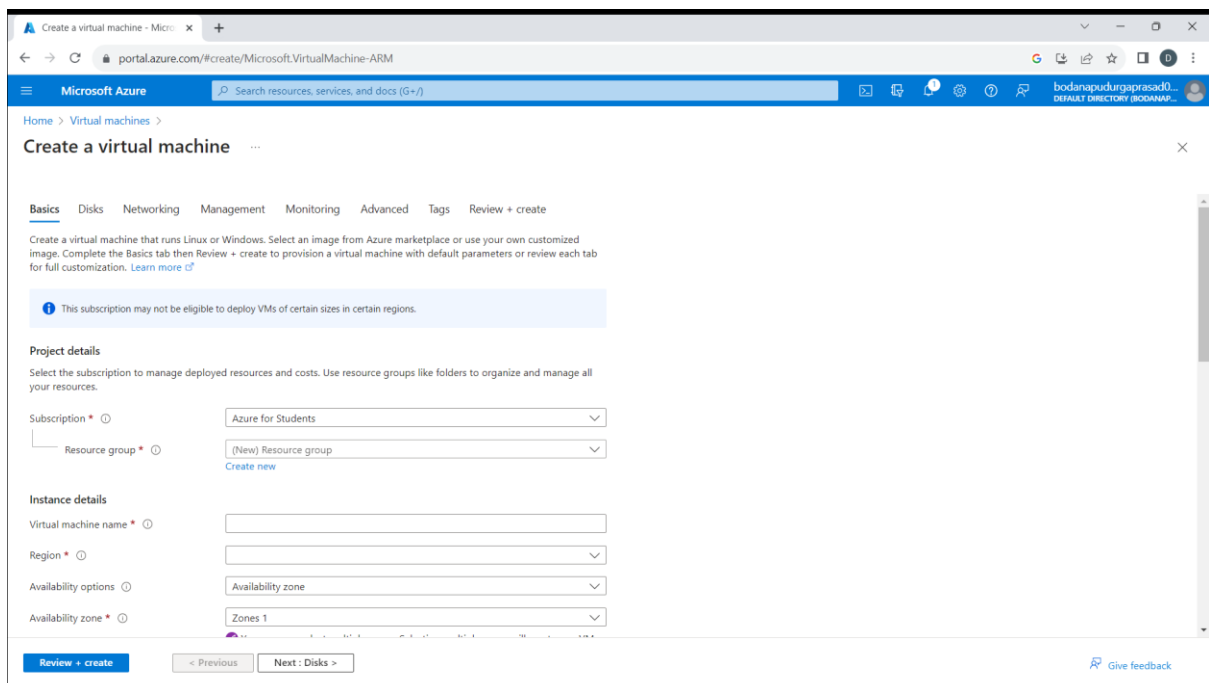
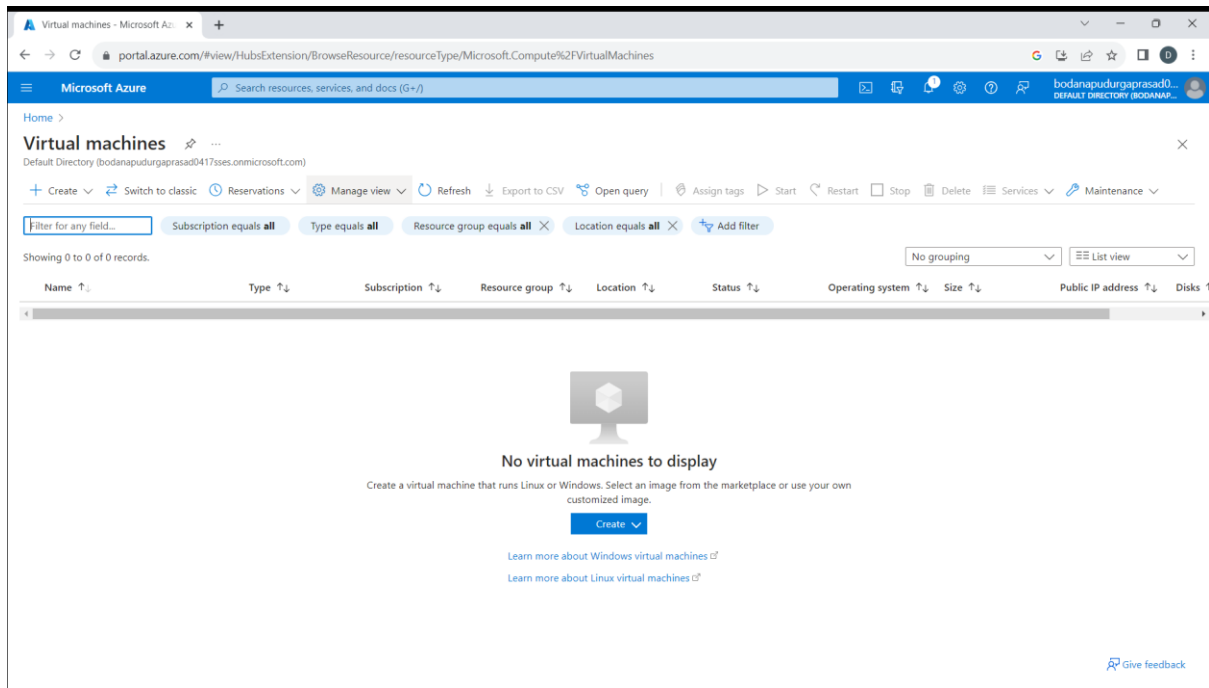


# Experiment-14

Demonstrate Infrastructure as a Service (IaaS) by establishing the remote connection, launch the created VM image and run in your desktop



Create a virtual machine - Microsoft Azure

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Search resources, services, and docs (G+J)

Home > Virtual machines >

## Create a virtual machine

your resources.

Subscription \*

Resource group \*  [Create new](#)

**Instance details**

Virtual machine name \*

Region \*

Availability options

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

Security type    
 [Configure security features](#)

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

VM architecture ☐ Arm64 ☒ x64

[Review + create](#) [< Previous](#) [Next: Disks >](#) [Give feedback](#)

Create a virtual machine - Microsoft Azure

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## Create a virtual machine

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

VM architecture ☐ Arm64 ☒ x64

Run with Azure Spot discount ☐

Size \*    
 [See all sizes](#)

**Administrator account**

Authentication type ☒ SSH public key ☐ Password

**Username** \*

SSH public key source

Key pair name \*

**Inbound port rules**

Select which virtual machine network ports are accessible from the public Internet. You can specify more limited or regular.

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Create a virtual machine - Microsoft Azure

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Microsoft Azure

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## Create a virtual machine

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 about enabling this feature](#)

**OS disk**

OS disk size

OS disk type

Delete with VM ☒

Key management

Enable Ultra Disk compatibility ☐

Ultra disk is not supported with selected security type.

**Data disks for ace**

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](#)

[Review + create](#) [< Previous](#) [Next: Networking >](#) [Give feedback](#)

Create a virtual machine - Microsoft Azure

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Microsoft Azure

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## Create a virtual machine

**Network interface**

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

Virtual network

[Create new](#)

Subnet

Public IP

[Create new](#)

NIC network security group ☐ None ☒ Basic ☐ Advanced

Public inbound ports ☐ None ☒ Allow selected ports

Select inbound ports

**Warning:** 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.

Delete public IP and NIC when VM is deleted ☐

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Create a virtual machine - Micro x +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

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

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## Create a virtual machine

**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 Microsoft Defender for Cloud basic plan.

**Identity**

Enable system assigned managed identity ☐

**Azure AD**

Login with Azure AD ☐

RBAC role assignment of Virtual Machine Administrator Login or Virtual Machine User Login is required when using Azure AD login. [Learn more](#)

Azure AD 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 ☐

[Review + create](#) < Previous Next: Monitoring > [Give feedback](#)

Create a virtual machine - Micro x +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

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

Home > Virtual machines >

## Create a virtual machine

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 ☐

[Review + create](#) < Previous Next: Advanced > [Give feedback](#)

Create a virtual machine - Micro

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Search resources, services, and docs (G+J)

bodanapudurgaprasad0...  
DEFAULT DIRECTORY (BODANAP...

Home > Virtual machines >

Create a virtual machine

Performance (NVMe)

Enable capabilities to enhance the performance of your resources.

Higher remote disk storage performance with NVMe ☐

The selected size is not supported for NVMe. [See supported size families](#)

Host

Azure Dedicated Hosts allow you to provision and manage a physical server within our data centers that are dedicated to your Azure subscription. A dedicated host gives you assurance that only VMs from your subscription are on the host, flexibility to choose VMs from your subscription that will be provisioned on the host, and the control of platform maintenance at the level of the host. [Learn more](#)

Host group

Capacity reservations

Capacity reservations allow you to reserve capacity for your virtual machine needs. You get the same SLA as normal virtual machines with the security of reserving the capacity ahead of time. [Learn more](#)

Capacity reservation group

Proximity placement group

Proximity placement groups allow you to group Azure resources physically closer together in the same region. [Learn more](#)

Proximity placement group

Review + create

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Next: Tags >

Give feedback

Create a virtual machine - Micro

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Microsoft Azure

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Create a virtual machine

Basics

Disks

Networking

Management

Monitoring

Advanced

Tags

Review + create

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
jsvk	23	13 selected
		13 selected

Review + create

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Next: Review + create >

Give feedback

Create a virtual machine - Micro

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

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Home > Virtual machines >

Create a virtual machine

Validation passed

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 information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Name

Preferred e-mail address

Preferred phone number

**You have set SSH port(s) open to the internet.** This is only recommended for testing. If you want to change this setting, go back to Basics tab.

Basics

Subscription	Azure for Students
Resource group	prasad
Virtual machine name	ace
Region	Central India
Availability options	Availability zone

Create

< Previous

Next >

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Give feedback

Create a virtual machine - Micro

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

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Home > Virtual machines >

Create a virtual machine

Validation passed

system assigned managed identity	Off
Login with Azure AD	Off
Auto-shutdown	Off
Backup	Disabled
Enable hotpatch	Off
Patch orchestration options	Image Default

Monitoring

Alerts	Off
Boot diagnostics	On
Enable OS guest diagnostics	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

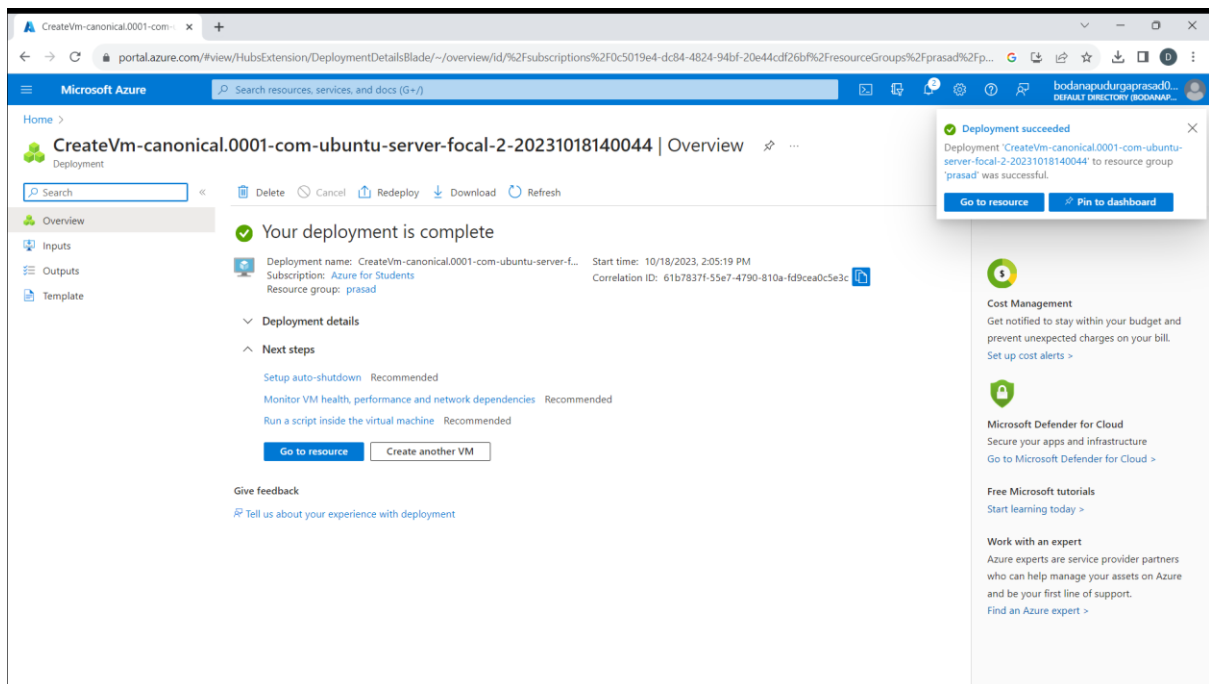
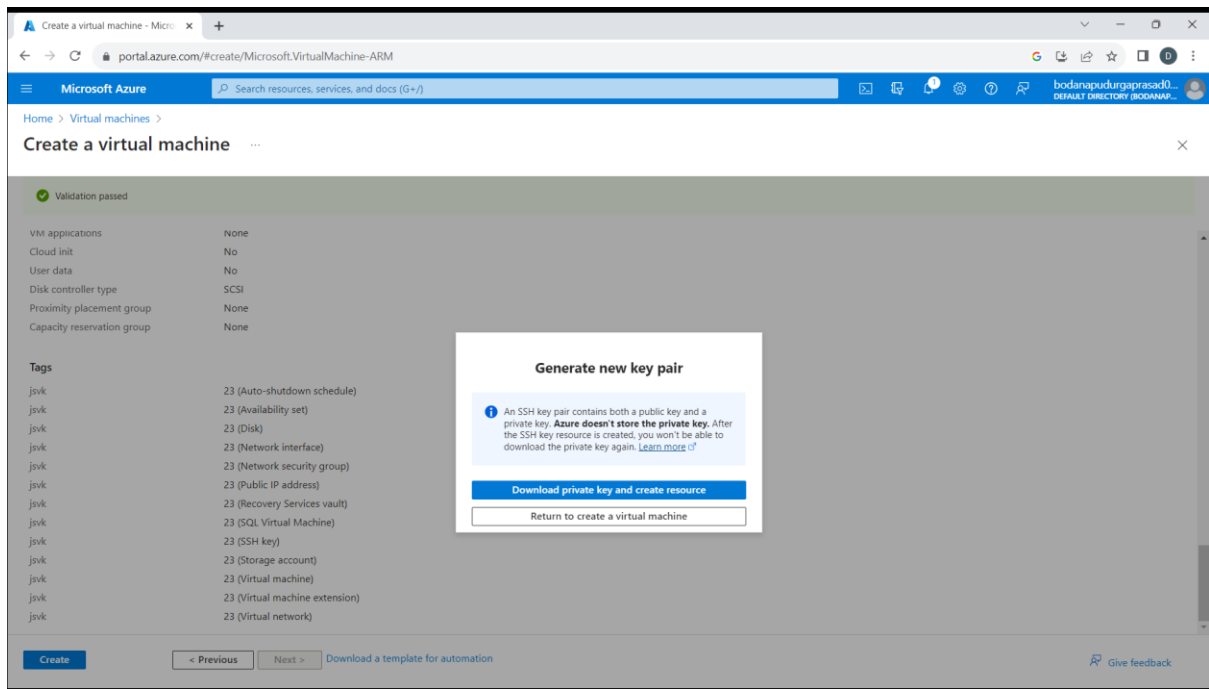
Create

< Previous

Next >

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ace - Microsoft Azure

portal.azure.com/#@bodanapudurgaprasad0417sses.onmicrosoft.com/resource/subscriptions/0c5019e4-dc84-4824-94bf-20e44cd26bf/resourcegroups/prasad/providers/Microsoft.Compute/virtualmachines/ace

Microsoft Azure

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20231018140044 | Overview >

ace Virtual machine

Search

Connect Start Restart Stop Capture Delete Refresh Open in mobile Feedback CLI / PS

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Disks

Size

Microsoft Defender for Cloud

Advisor recommendations

Extensions + applications

Availability + scaling

Configuration

Identity

Properties

Locks

Operations

Essentials

Resource group (move) : prasad

Status : Running

Location : Central India (Zone 1)

Subscription (move) : Azure for Students

Subscription ID : 0c5019e4-dc84-4824-94bf-20e44cd26bf

Availability zone : 1

Tags (edit) : jvjk : 23

Operating system : Linux (ubuntu 20.04)

Size : Standard D2s v3 (2 vcpus, 8 GiB memory)

Public IP address : 40.81.237.63

Virtual network/subnet : ace-vnet/default

DNS name : Not configured

Health state : -

JSON View

Properties Monitoring Capabilities (7) Recommendations Tutorials

Virtual machine

Computer name : ace

Operating system : Linux (ubuntu 20.04)

Image publisher : canonical

Image offer : 0001-com-ubuntu-server-focal

Image plan : 20\_04-its-gen2

VM generation : V2

VM architecture : x64

Agent status : Ready

Agent version : 2.9.1.1

Host group : None

Networking

Public IP address : 40.81.237.63 ( Network interface ace608\_x1 )

Public IP address (IPv6) : -

Private IP address : 10.0.0.4

Private IP address (IPv6) : -

Virtual network/subnet : ace-vnet/default

DNS name : Configure

Size

Size : Standard D2s v3

vCPUs : 2

RAM : 8 GiB

ace - Microsoft Azure

portal.azure.com/#@bodanapudurgaprasad0417sses.onmicrosoft.com/resource/subscriptions/0c5019e4-dc84-4824-94bf-20e44cd26bf/resourcegroups/prasad/providers/Microsoft.Compute/virtualmachines/ace

Microsoft Azure

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20231018140044 | Overview > ace

ace | Connect Virtual machine

Search

Refresh Troubleshooting More Options Feedback

Connecting using Public IP address | 40.81.237.63

Admin username : azureuser

Port (change) : 22 Check access

Just-in-time policy : Unsupported by plan

Recommended

SSH using Azure CLI

Quickly connect in browser. Supports Azure AD authentication. Private key not required.

Public IP address (40.81.237.63)

Select

Most common

Native SSH

No additional software needed. Private key required for connection. Best for those with existing SSH tools.

Public IP address (40.81.237.63)

Select

More ways to connect (3)



