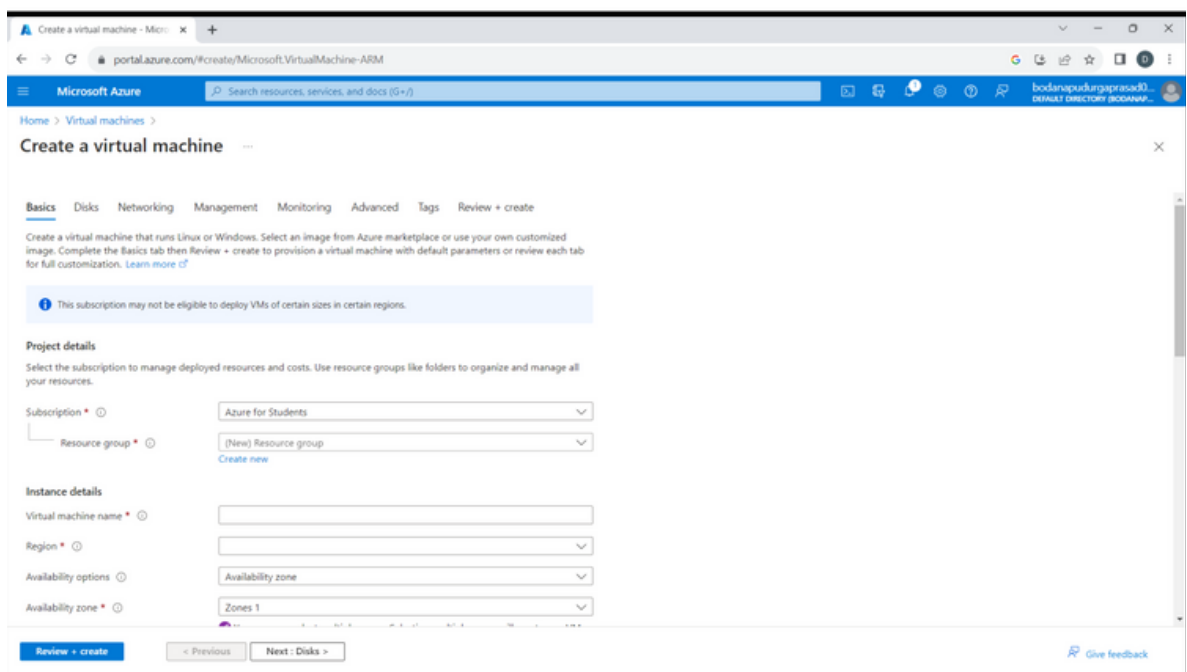
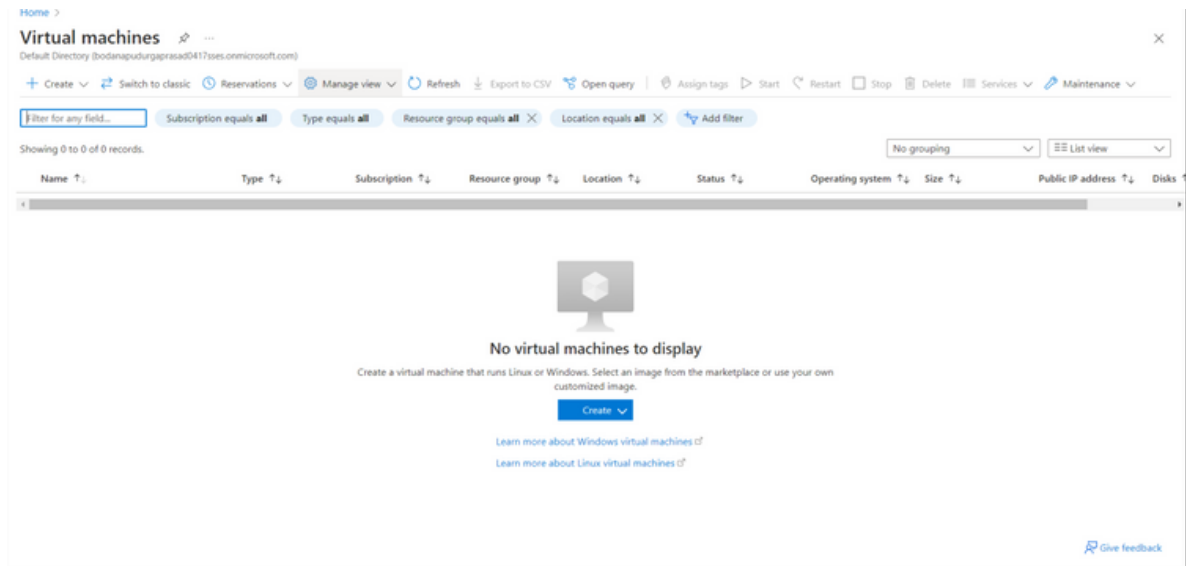


Experiment-14

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



Home > Virtual machines >

Create a virtual machine

your resources.

Subscription Azure for Students

Resource group prasad
[Create new](#)

Instance details

Virtual machine name ace

Region (Asia Pacific) Central India

Availability options Availability zone

Availability zone Zones 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 20.04 LTS - x64 Gen2
[See all images](#) | [Configure VM generation](#)

VM architecture ☐ Arm64 ☒ x64

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

Create a virtual machine - Micro x portal.azure.com/#create/Microsoft.VirtualMachine-ARM

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

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Create a virtual machine

Image Ubuntu Server 20.04 LTS - x64 Gen2
[See all images](#) | [Configure VM generation](#)

VM architecture ☐ Arm64 ☒ x64

Run with Azure Spot discount ☐

Size Standard_D2s_v3 - 2 vcpus, 8 GiB memory (₹6,019.67/month)
[See all sizes](#)

Administrator account

Authentication type ☒ SSH public key ☐ Password
 Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.

Username azureuser

SSH public key source Generate new key pair

Key pair name ace_key

Inbound port rules
Configure which virtual machines network ports are accessible from the public Internet. You can enable ports for inbound traffic.

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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](#)

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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
[Create new](#)

Public IP
[Create new](#)

NIC network security group ☐ None
☒ Basic
☐ Advanced

Public inbound ports ☐ None
☒ Allow selected ports

Select inbound ports

⚠ 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

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 ☐

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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](#)

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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

No host groups found

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

None

Proximity placement group

Proximity placement groups allow you to group Azure resources physically closer together in the same region. Learn more

Proximity placement group

No proximity placement groups found

Review + create

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Next: Tags >

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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
jdk	23	13 selected
		13 selected

Review + create

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Create a virtual machine

Validation passed

By clicking "Create", I (s) 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

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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

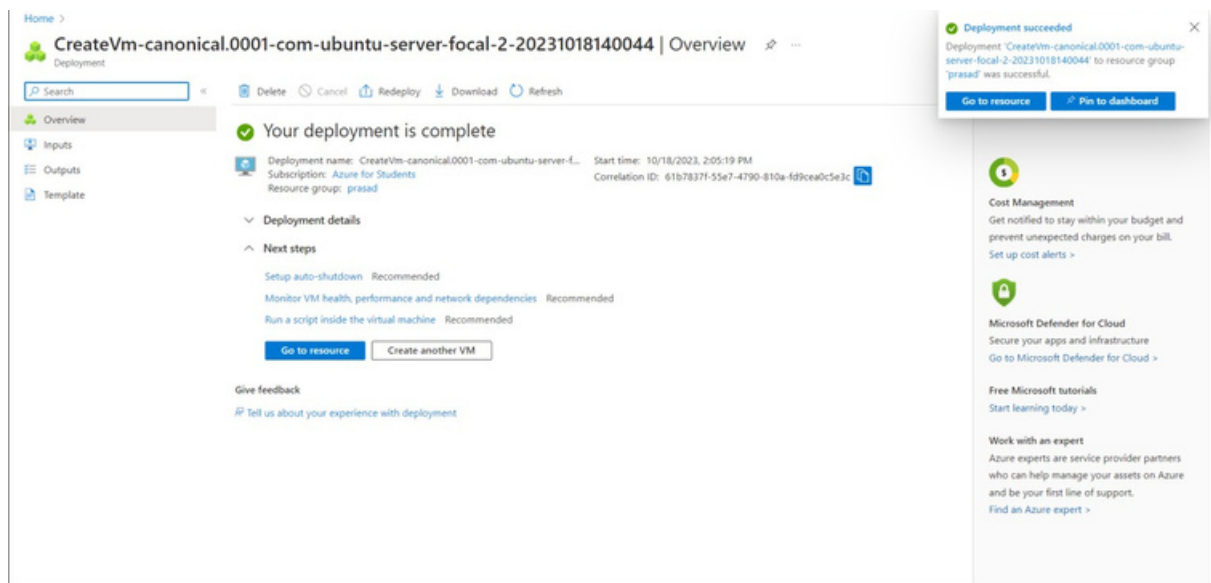
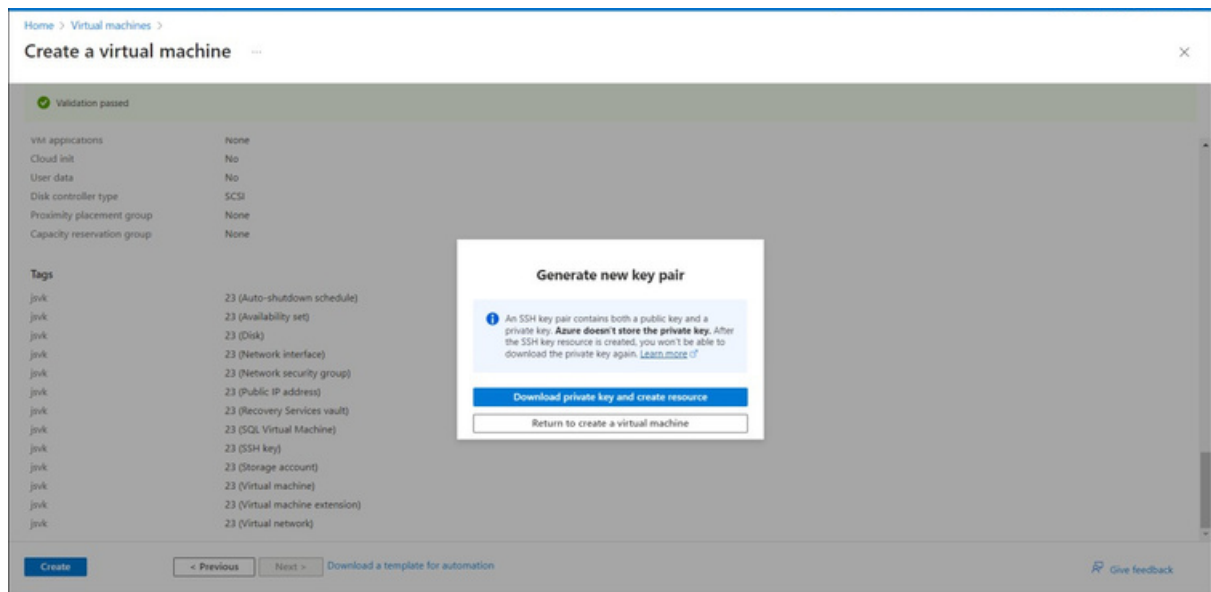
Monitoring

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

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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

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Connect

Disks

Size

Microsoft Defender for Cloud

Advisor recommendations

Extensions + applications

Availability + scaling

Configuration

Identity

Properties

Locks

Operations

Essentials

Resource group (mouse) : [prasad](#)

Status : Running

Location : Central India (Zone 1)

Subscription (mouse) : [Azure for Students](#)

Subscription ID : 0c5019e4-dc84-4824-94bf-20e44cd926bf

Availability zone : 1

Tags (add) : [jvsk : 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-lts-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

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)

