

INFRASTRUCTURE AS A SERVICE (IAAS)

EXPERIMENT – 19

AIM:

To demonstrate Infrastructure as a Service (IaaS) by creating a resource group using a public cloud service provider (Azure), and configure it with minimum CPU, RAM, and storage.

PROCEDURE:

1. Login to the Microsoft Azure Portal by navigating to <https://portal.azure.com> and sign in with your Azure credentials.
2. Click on "Resource Groups" from the left-hand menu and then select "+ Create".
3. Choose your subscription and enter a unique name for the resource group such as "TestIaaS-RG".
4. Select an appropriate region like "Central India", click "Review + Create", and then click "Create".
5. After the resource group is created, go to "Virtual Machines" and click on "+ Add" followed by "Virtual Machine".
6. Enter the details such as subscription, the previously created resource group, and a virtual machine name like "testVM".
7. Select the same region as your resource group and choose a lightweight OS image such as Ubuntu 20.04 LTS.
8. Choose a minimum configuration for the VM like the B1s size with 1 vCPU and 1 GB RAM.
9. Set up authentication using either a password or SSH key.

10. Allow public inbound ports such as SSH (for Linux VMs) or RDP (for Windows VMs).
11. Click on "Review + Create" and then click "Create" to deploy the virtual machine.
12. After deployment, go to "Virtual Machines", select the deployed VM, and verify the configuration details for CPU, RAM, and storage.
13. Optionally, connect to the VM using SSH or RDP to test access.
14. To avoid unnecessary charges, go to "Resource Groups", select your resource group, and delete it when finished.

OUTPUT:

The screenshot shows the 'Create a virtual machine' page in the Azure portal, specifically the 'Review + create' tab. At the top, there's a header with the title 'Create a virtual machine' and three utility buttons: 'Help me choose the right VM size for my workload', 'Set up redundancy for this VM', and 'Create a highly available VM'. Below the header, a green banner indicates 'Validation passed'. A navigation bar contains tabs for 'Basics', 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', 'Tags', and 'Review + create', with the last one being active. The 'Price' section shows '1 X Standard E2s v3 by Microsoft' with a price of '0.1370 USD/hr' and links for 'Terms of use', 'Privacy policy', and 'Pricing for other VM sizes'. The 'TERMS' section contains a paragraph of legal agreement text. At the bottom, there is a 'Name' field with the value 'uday kiran' and a 'Create' button. Navigation buttons '< Previous' and 'Next >' are also present.

Create a virtual machine

Help me choose the right VM size for my workload Set up redundancy for this VM Create a highly available VM

Validation passed

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

Price

1 X Standard E2s v3
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply ⓘ
0.1370 USD/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 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 uday kiran

< Previous Next > **Create**

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Home > CreateVm-canonical.ubuntu-24_04-its-server-20250808132518 | Overview >

candy Virtual machine

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Overview

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

Essentials

Resource group (move) [uday](#)

Status Running

Location Central India (Zone 1)

Subscription (move) [Azure for Students](#)

Subscription ID 2468a3e8-03d0-41a3-92d4-6d4f3c739d97

Availability zone 1

Tags (edit) [Add tags](#)

Operating system Linux (ubuntu 24.04)

Size Standard E2s v3 (2 vcpus, 16 GiB memory)

Public IP address [98.70.27.241](#)

Virtual network/subnet [candy-vnet/default](#)

DNS name [Not configured](#)

Health state -

Time created 8/8/2025, 8:03 AM UTC

[JSON View](#)

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Home > CreateVm-canonical.ubuntu-24_04-its-server-20250808132518 | Overview >

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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

Extended zone -

Availability set -

Scale Set (attach) -

Source image details

Source image publisher canonical

Source image offer ubuntu-24_04-its

Source image plan server

Disk

OS disk [candy_OsDisk_1_42d58b61ffb9496bb10d05c88a570f11](#)

Encryption at host Disabled

Azure disk encryption Not enabled

Ephemeral OS disk N/A

Data disks 0

Auto-shutdown

Alt or remove favorites by pressing Ctrl+Shift+F

RESULT:

Successfully demonstrated Infrastructure as a Service (IaaS) by deploying a virtual machine with minimal resources using Microsoft Azure and organizing it under a newly created resource group.