

INFRASTRUCTURE AS A SERVICE (IAAS)

EXPERIMENT – 18

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 displays the Azure portal interface for a resource group named 'uday'. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings, Cost Management, Monitoring, Automation, and Help. The main content area shows the 'Resources' tab with a table of resources. The table has columns for Name, Type, and Location. Two resources are listed: 'ASP-uday-ba4a' (App Service plan) and 'CANDY' (App Service), both located in 'Central India'. The page includes filters, sorting options, and pagination controls at the bottom.

Name	Type	Location
ASP-uday-ba4a	App Service plan	Central India
CANDY	App Service	Central India

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.