

# 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 shows the Azure portal interface for a resource group named 'karthik'. The 'Resources' tab is selected, displaying a list of resources. The resources are organized into a table with columns for Name, Type, and Location. The resources listed are:

Name	Type	Location
ASP-karthik-9684	App Service plan	Central India
chrome	Virtual machine	Central India
chrome	App Service	Central India
chrome-ip	Public IP address	Central India
chrome-nsg	Network security group	Central India
chrome-vnet	Virtual network	Central India
chrome91_z1	Network Interface	Central India
chrome_key	SSH key	Central India
chrome_OsDisk_1_9d0a9b97389144718f27ab6b610db47e	Disk	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.