INFRASTRUCTURE AS A SERVICE (IAAS)

EXPERIMENT – 19

AIM:

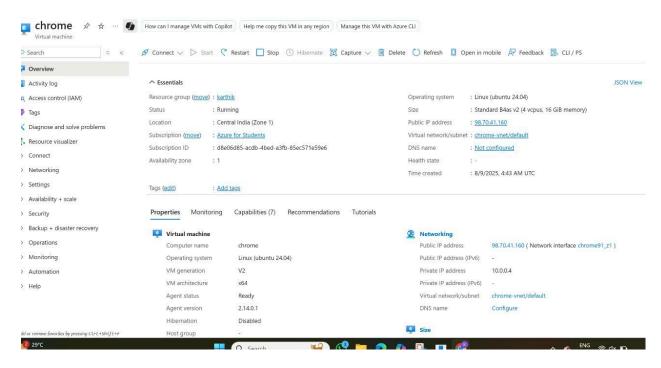
To demonstrate Infrastructure as a Service (IaaS) by creating a resource group using a public cloud service provider (Azure), and configure it with minimum CPU, RAM, and storage.

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:



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.