

PLACEMENT EMPOWERMENT PROGRAM

CLOUD COMPUTING AND DEVOPS CENTRE

TASK 16 - Set up a load balancer and configure a load balancer to distribute traffic across multiple VMs

NAME - MAHASHREE U

DEPT - ADS

Steps to Set Up an Azure Load Balancer

Step 1: Create Virtual Machines (VMs)

- 1. Go to Azure Portal → Virtual Machines → Click Create.
- 2. Configure:
 - Region (same for all VMs)
 - o Image (e.g., Ubuntu, Windows Server)
 - Networking: Attach all VMs to the same Virtual Network (VNet).
- 3. Repeat the process to create at least **two VMs**.

Step 2: Create an Azure Load Balancer

- 1. Go to Azure Portal → Load Balancers → Click Create.
- 2. Select:
 - Type: Choose Public for external traffic or Internal for private traffic.
 - o **Region**: Same as your VMs.
 - o **Public IP**: Create a new one (if Public LB).
- 3. Click Review + Create → Create.

Step 3: Configure the Backend Pool

- 1. Open the Load Balancer → Click Backend pools → Add.
- 2. Enter a **Name** for the pool.
- 3. Select Virtual Network → Click + Add to add VMs.
- 4. Click Save.

Step 4: Configure Health Probes

- 1. Open the Load Balancer → Click Health probes → Add.
- 2. Enter:
 - o Name: e.g., http-probe
 - o **Protocol**: HTTP
 - o **Port**: 80 (or app-specific port)
- 3. Click Save.

Step 5: Create a Load Balancer Rule

- 1. Open Load Balancer → Load balancing rules → Add.
- 2. Set:
 - o Frontend IP: Select created Public IP.
 - o Protocol: TCP

- o **Port**: 80 (or your app port)
- o Backend Pool: Choose the pool from Step 3.
- Health Probe: Select the probe from Step 4.
- 3. Click Save.

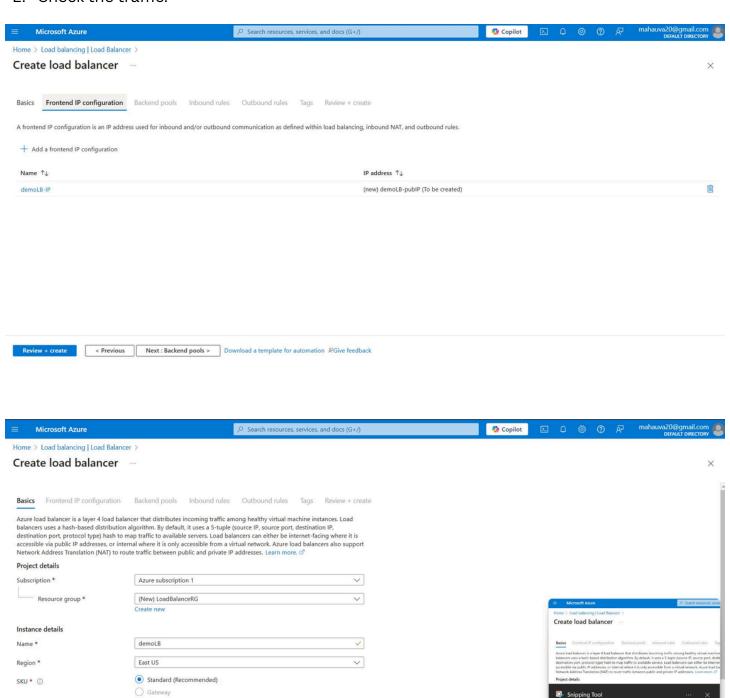
Step 6: Test Load Balancing

1. Get the Load Balancer Public IP.

Basic (Retiring soon)

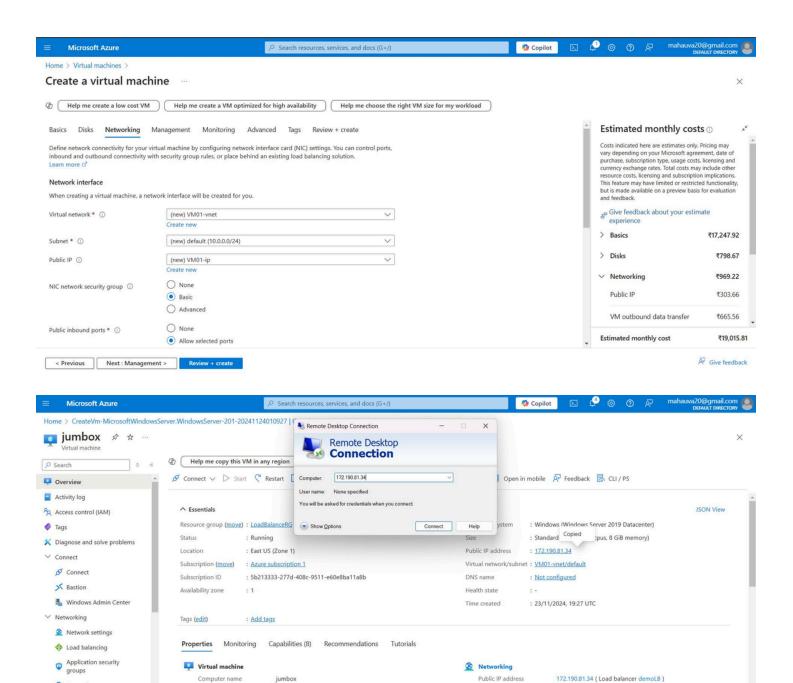
Type * ①

2. Check the traffic.



Screenshot copied to clipboard

Markup and share



Computer name

Operating system

VM generation

VM architecture

Agent status

Network manager

✓ Settings

B Disks

Extensions +

jumbox

V2

x64

Ready

Windows (Windows Server 2019 Datacenter)

Public IP address (IPv6)

Private IP address (IPv6) Virtual network/subnet 10.0.0.6

VM01-vnet/default

Private IP address

