

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

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Task: Backup and Restore an Azure Virtual Machine Using Snapshots

Description:

In this task, we will perform a full backup and restoration of an Azure Virtual Machine (VM) using Azure **Snapshots**. The process involves:

- 1. Taking a snapshot of the VM's OS disk to create a backup.
- 2. **Terminating (deleting) the VM** while retaining the snapshot as a recovery point.
- Restoring the VM from the snapshot by creating a new managed disk and deploying a new VM using that disk.

Step 1: Take a Snapshot of the VM

- 1. Go to Azure Portal → Virtual Machines.
- 2. Select the VM you want to back up.
- 3. In the left menu, click **Disks** → Select the **OS disk**.
- 4. Click Create Snapshot.
- 5. Configure the snapshot:
 - o **Name**: Give it a unique name (e.g., vm-snapshot-2025).
 - Storage Type: Standard or Premium (Standard is usually enough).
 - Snapshot Type: Full (recommended for a full backup).
- 6. Click Review + Create → Create.

Step 2: Terminate the VM

- 1. Go to Azure Portal → Virtual Machines.
- 2. Select the VM.
- 3. Click **Delete** → Confirm deletion.
- 4. (Optional) Delete associated resources (network, disks, public IPs) if no longer needed.

Step 3: Restore VM from Snapshot

- 1. Go to Azure Portal → Snapshots.
- 2. Select the snapshot you created.
- 3. Click Create Disk→ Provide:
 - o Name: e.g., vm-restored-disk
 - o **Disk Type**: Same as original VM.
- 4. Click Review + Create → Create.

Step 4: Create a VM from the Restored Disk

- 1. Go to Azure Portal → Disks.
- 2. Select the newly created disk.
- 3. Click Create VM.
- 4. Configure:
 - Resource Group
 - VM Size (same or different from original)
 - Networking (Attach to the same VNet if required)
- 5. Click Review + Create → Create.

Step 5: Verify the Restored VM

- 1. Once the VM is deployed, go to Virtual Machines.
- 2. Select the new VM.
- 3. Click Connect (SSH for Linux / RDP for Windows).
- 4. Check if the data and settings are intact.

Your backup and restore from snapshot is now complete







