Placement Empowerment Program

Cloud Computing and DevOps Centre

Back Up and Restore a Cloud Instance

Take a snapshot of your cloud VM. Terminate the VM and restore it from the snapshot

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INTRODUCTION

Backing up and restoring cloud instances is a critical aspect of cloud computing. It ensures business continuity, prevents data loss, and minimizes downtime. In this, we will walk you through the process of taking a snapshot of a cloud VM, terminating the VM, and restoring it from the snapshot.

OVERVIEW

This provides a step-by-step approach to backing up and restoring a cloud instance.

- *Taking a snapshot of a cloud VM*
- *Terminating the VM*
- *Restoring the VM from the snapshot*
- *Verifying the restored VM*

OBJECTIVES

1. To understand the importance of backing up cloud instances
2. To learn how to take a snapshot of a cloud VM
3. To understand how to terminate a cloud VM

4. To learn how to restore a cloud VM from a snapshot
5. To verify the restored cloud VM

IMPORTANCE

Backing up and restoring cloud instances is crucial for several reasons:

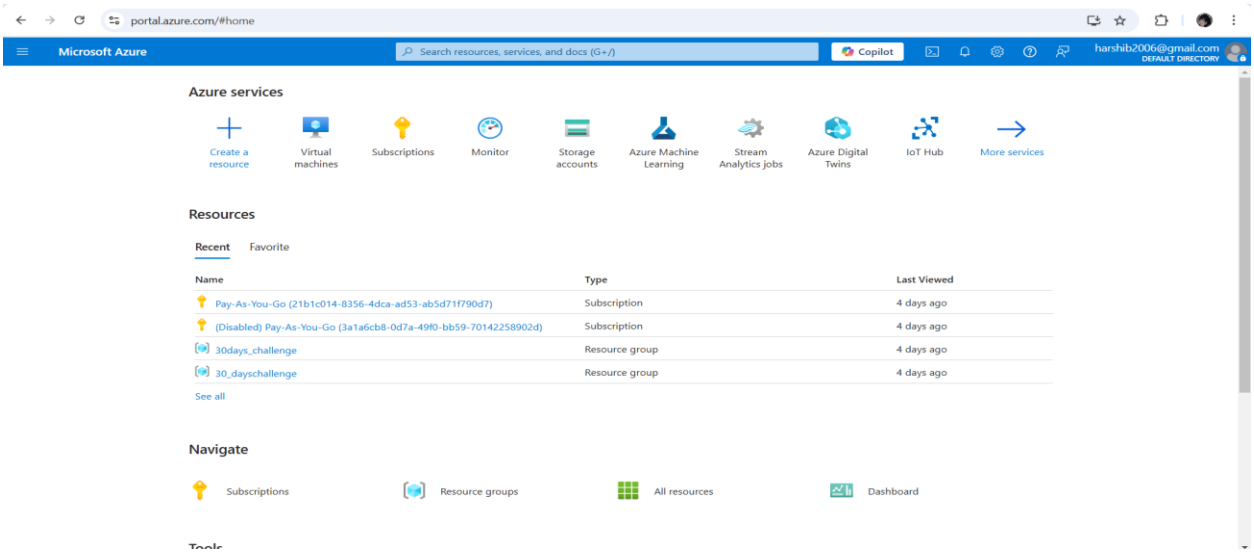
1. Business Continuity: Backing up cloud instances ensures that your business can continue to operate even in the event of a disaster or outage.
2. Data Protection: Backing up cloud instances protects your data from loss or corruption.
3. Minimizing Downtime: Restoring a cloud instance from a snapshot minimizes downtime and ensures that your business can quickly recover from an outage.
4. Compliance: Backing up cloud instances may be required for compliance with regulatory requirements, such as HIPAA or PCI-DSS.

STEP BY STEP OVERVIEW

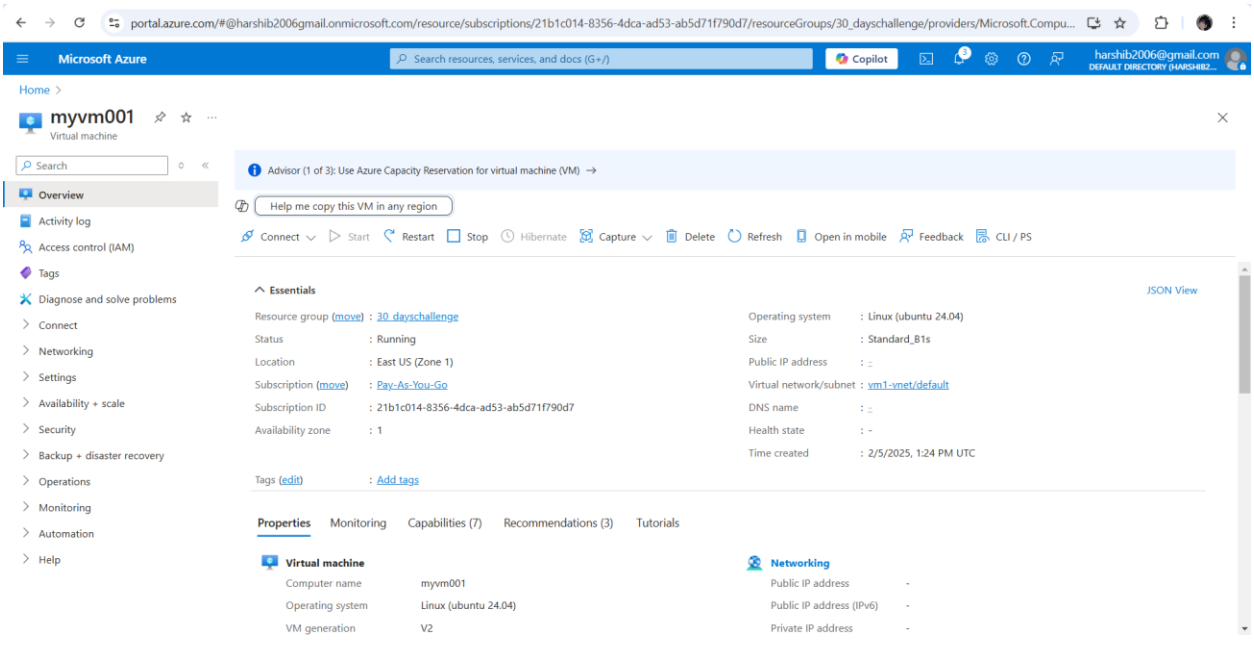
Here's a step-by-step guide to backing up and restoring a cloud instance in Azure:

Taking a Snapshot of the VM

1. Log in to the Azure portal

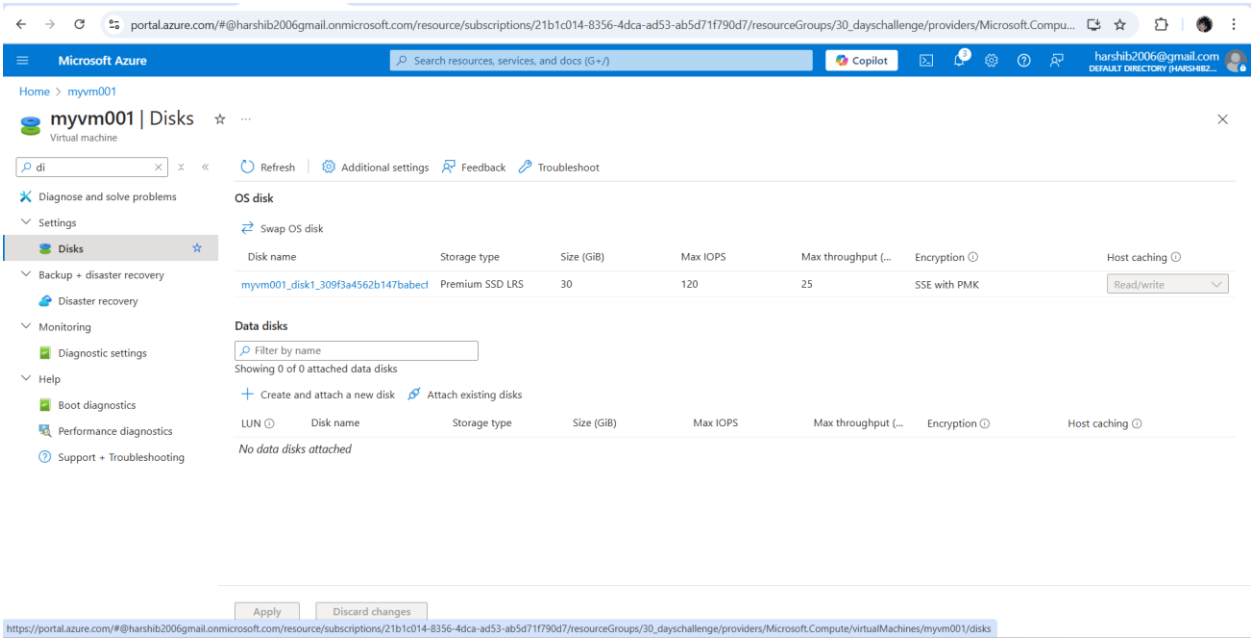


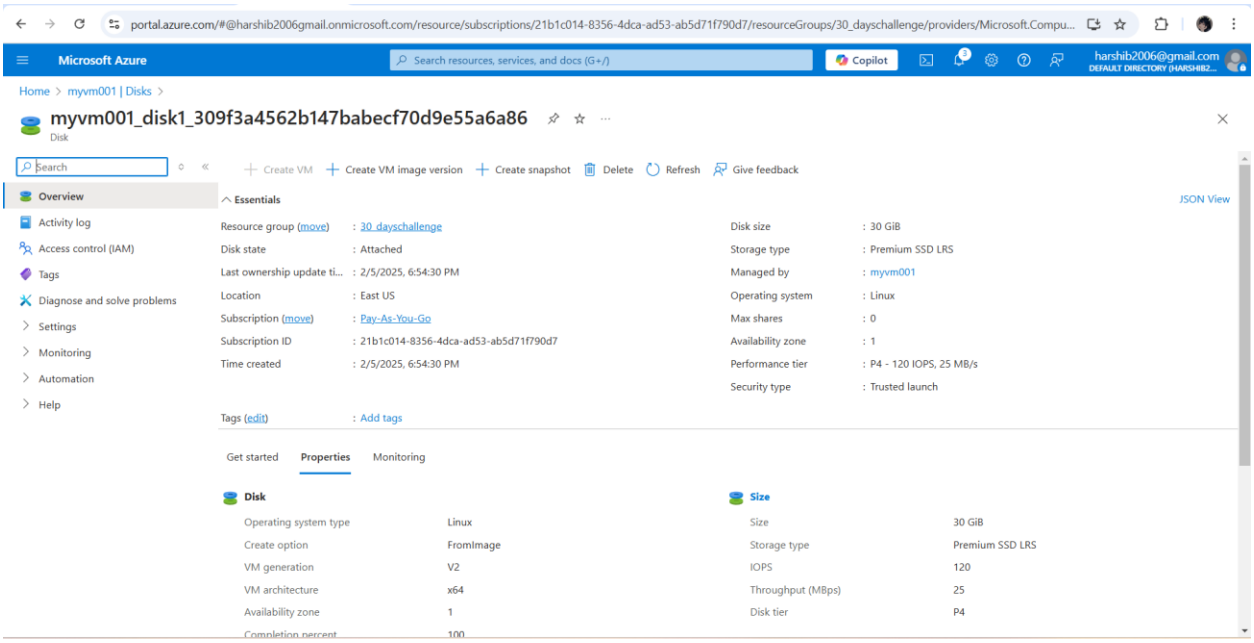
2. Navigate to the Virtual machines dashboard.



3. Select the VM you want to take a snapshot of.

4. Click on "Disks" and then select the OS disk.

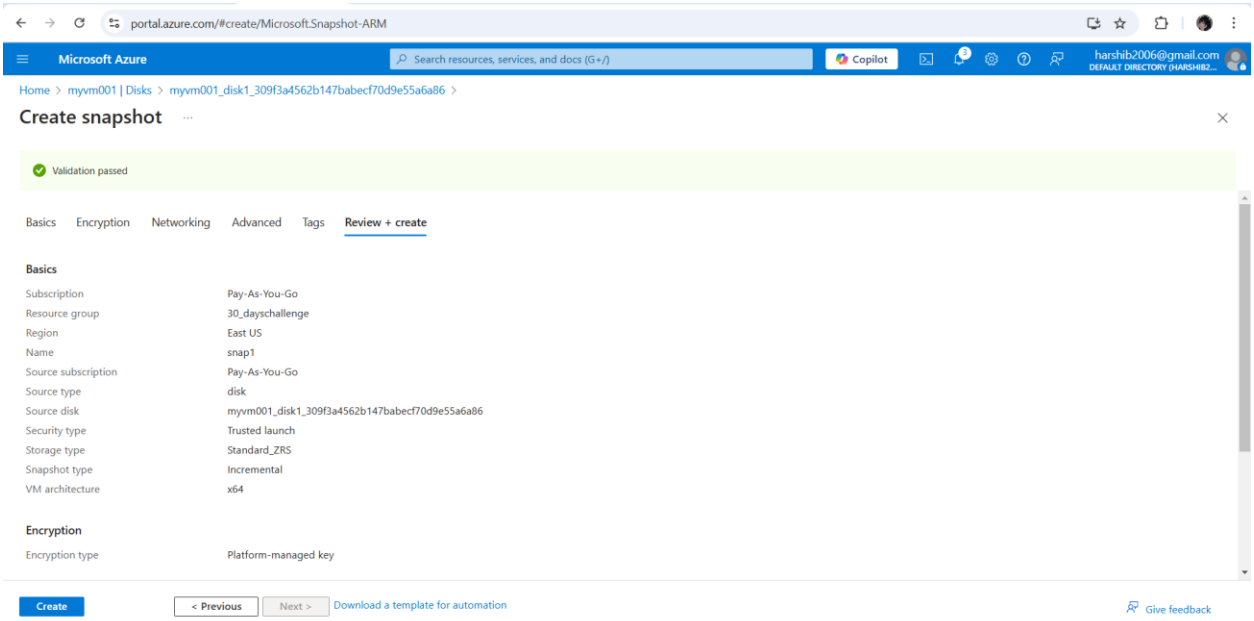


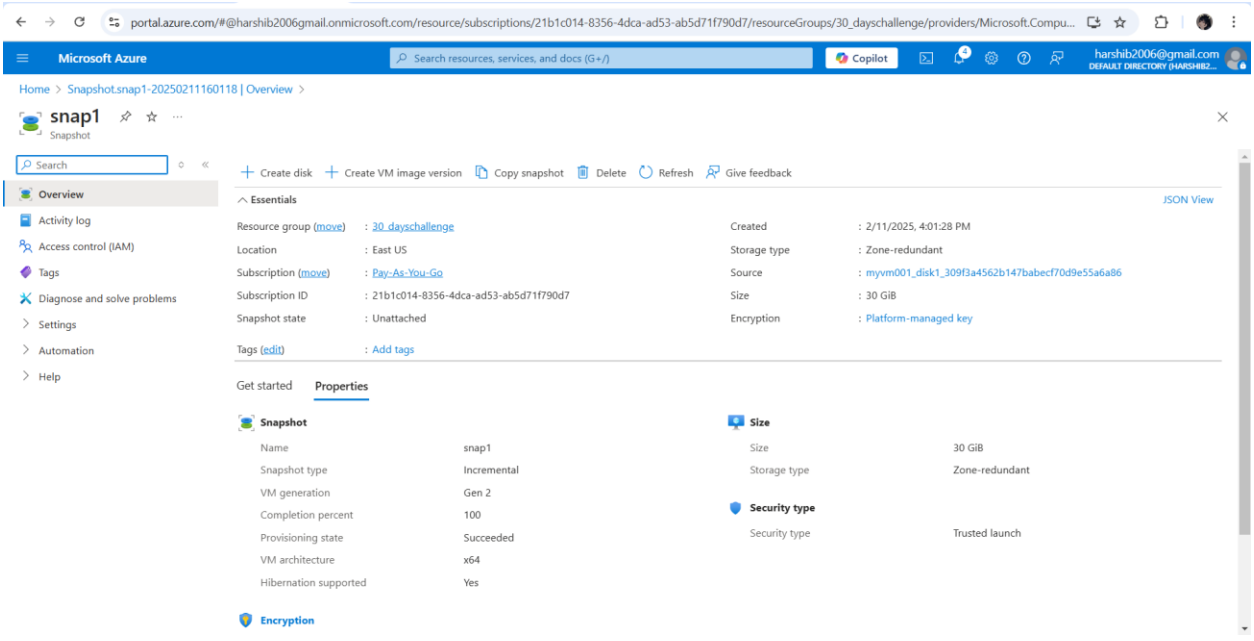


5. Click on "Create snapshot" and enter a name for the snapshot.

6. Select the resource group and location for the snapshot.

7. Click on "Create" to create the snapshot.

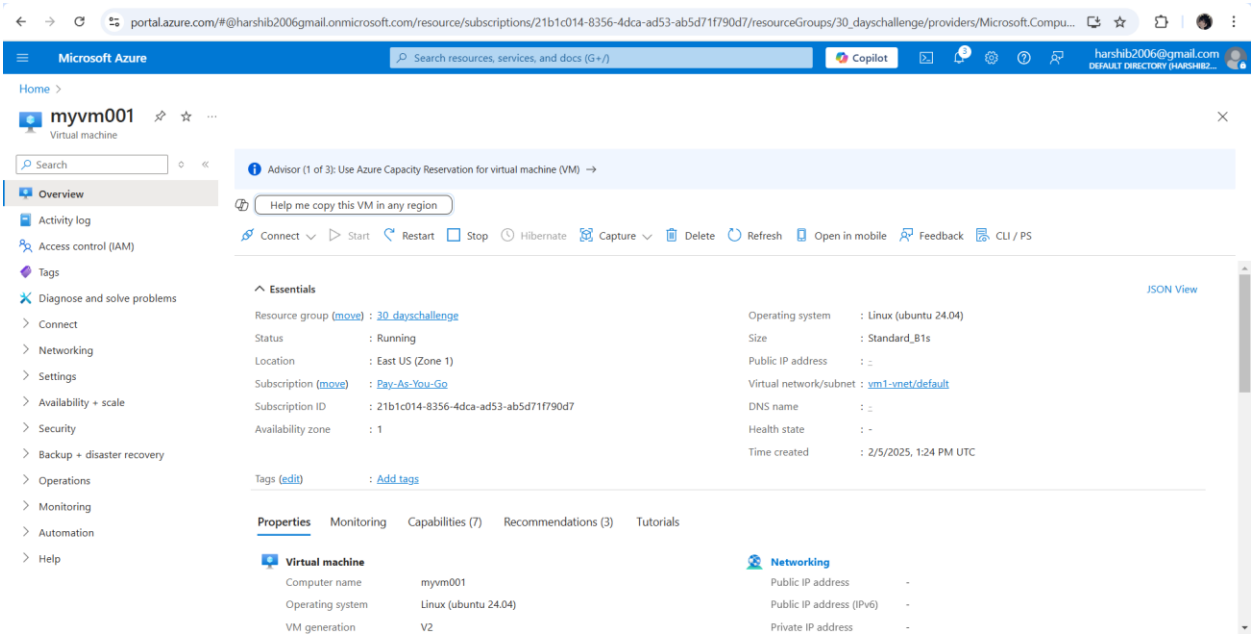




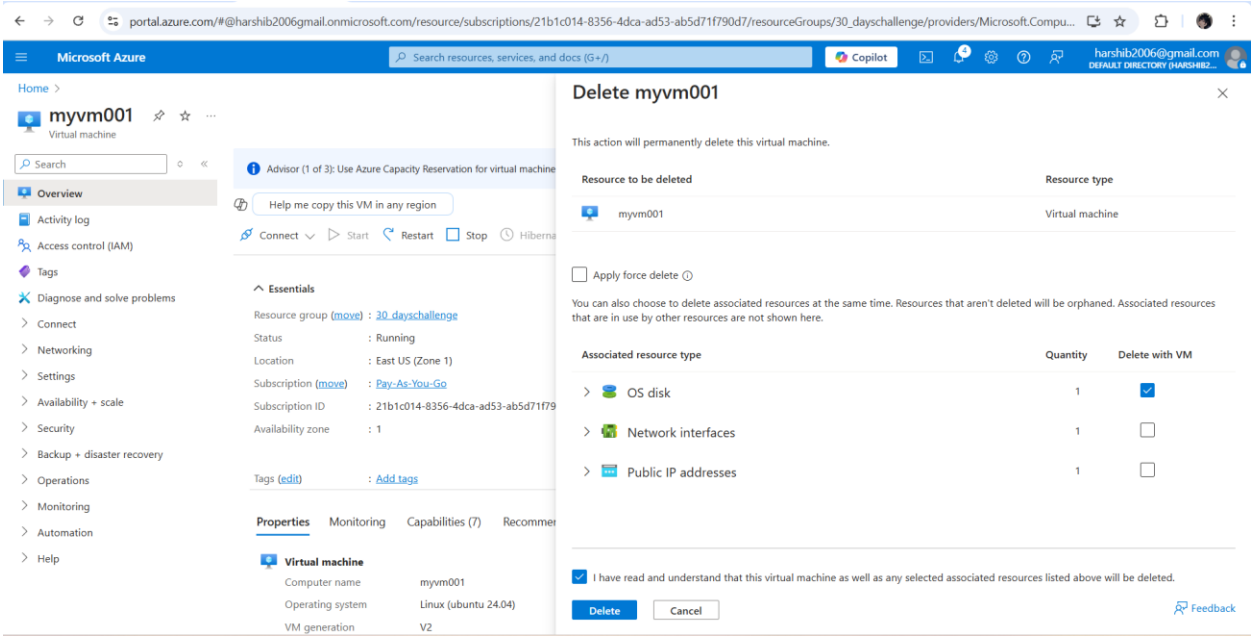
Terminating the VM

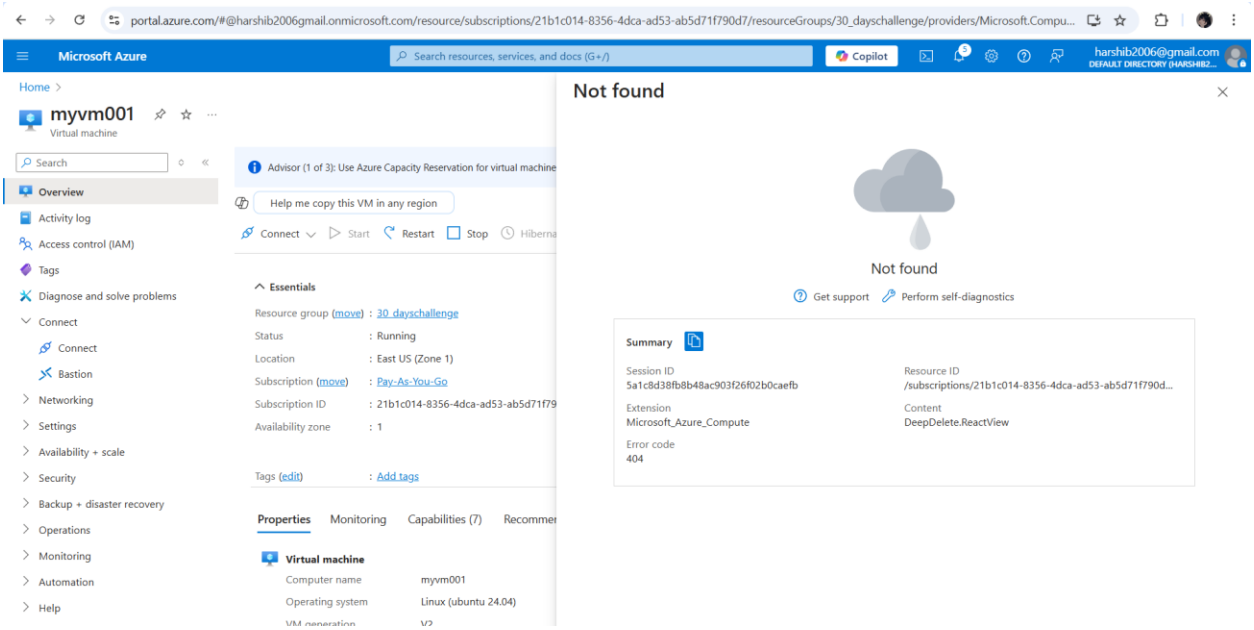
1. Navigate to the Virtual machines dashboard.

2. Select the VM you want to terminate.



3. Click on "Delete" and confirm that you want to delete the VM.





Restoring the VM from the Snapshot

1. Navigate to the Disks dashboard.

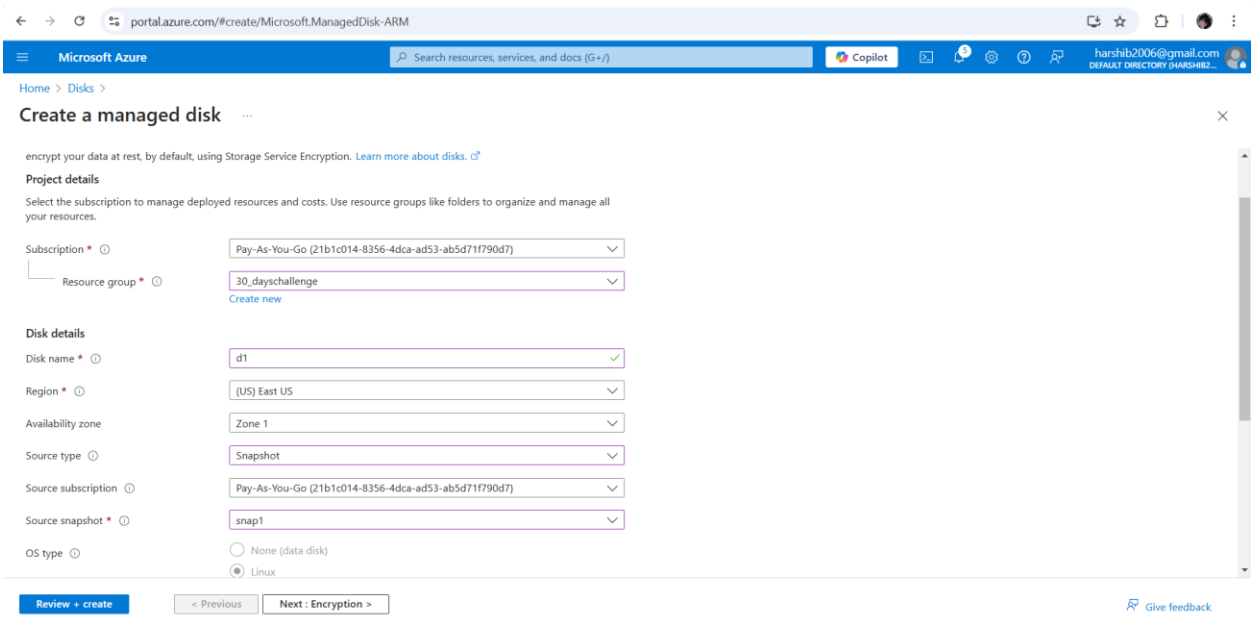
2. Select the snapshot you created earlier.

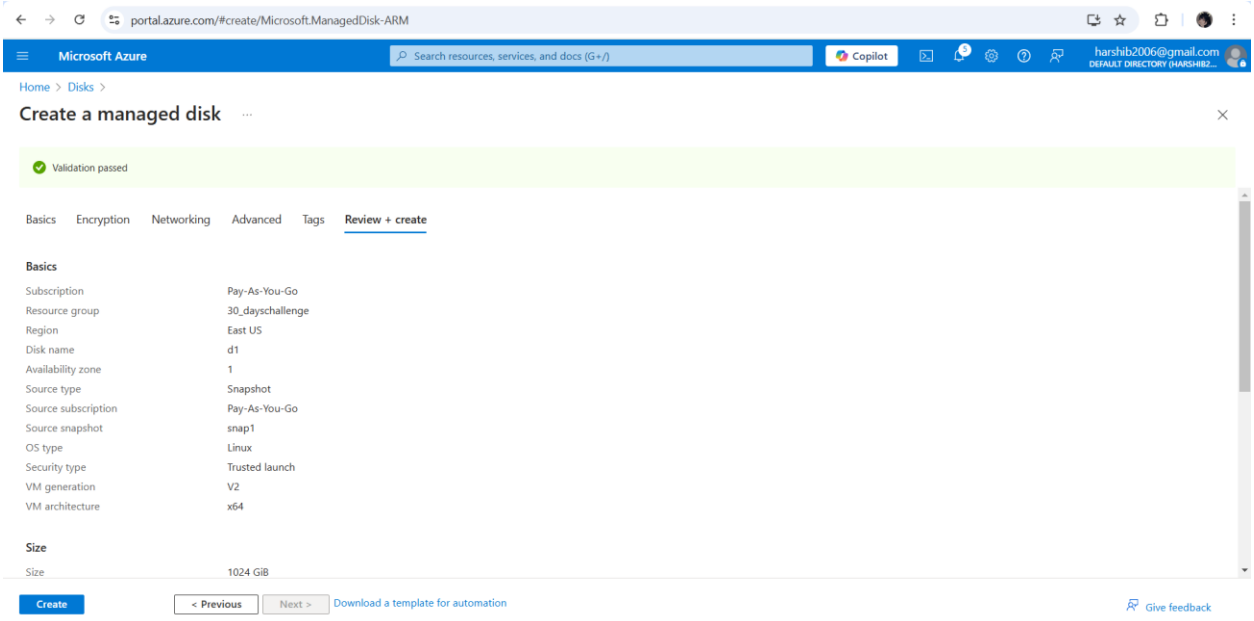
3. Click on "Create VM" and enter a name for the new VM.

4. Select the resource group and location for the new VM.

5. Configure the VM settings, such as the size, network, and security group.

6. Click on "Create" to create the new VM from the snapshot.



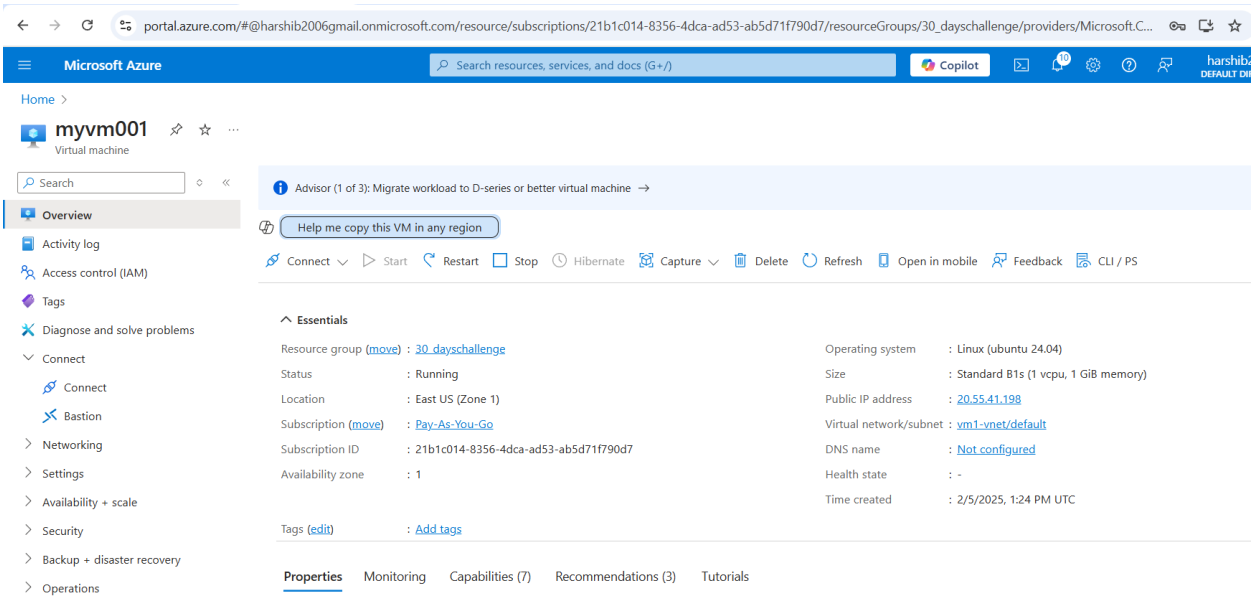


Verifying the Restored VM

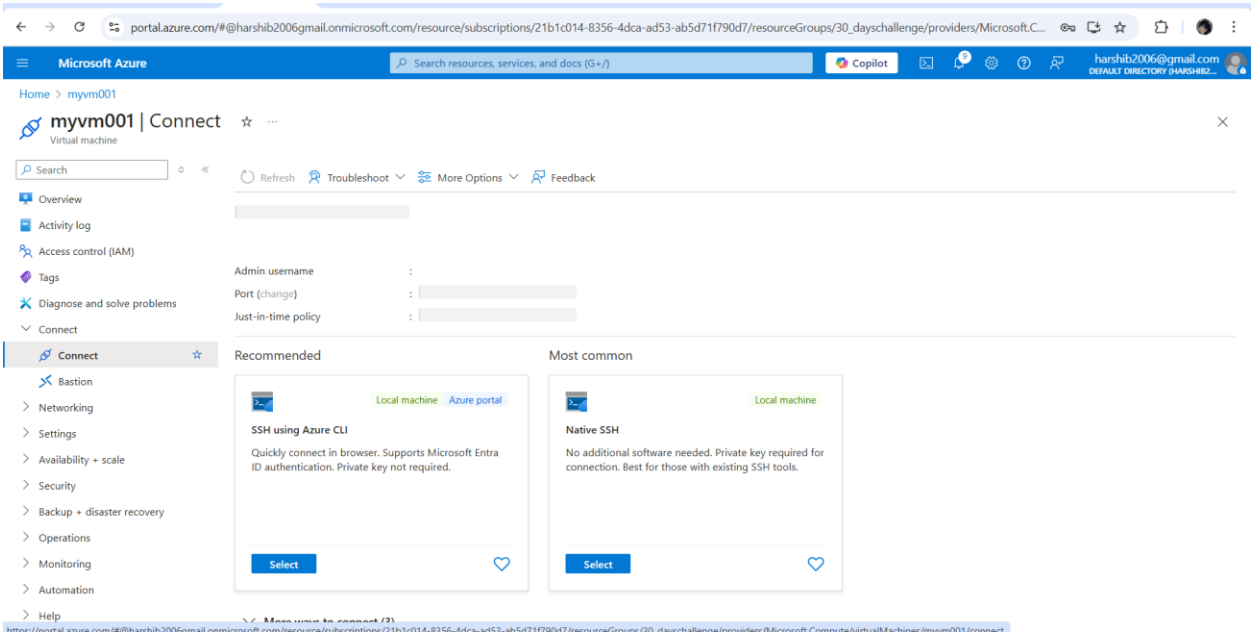
1. Navigate to the Virtual machines dashboard.

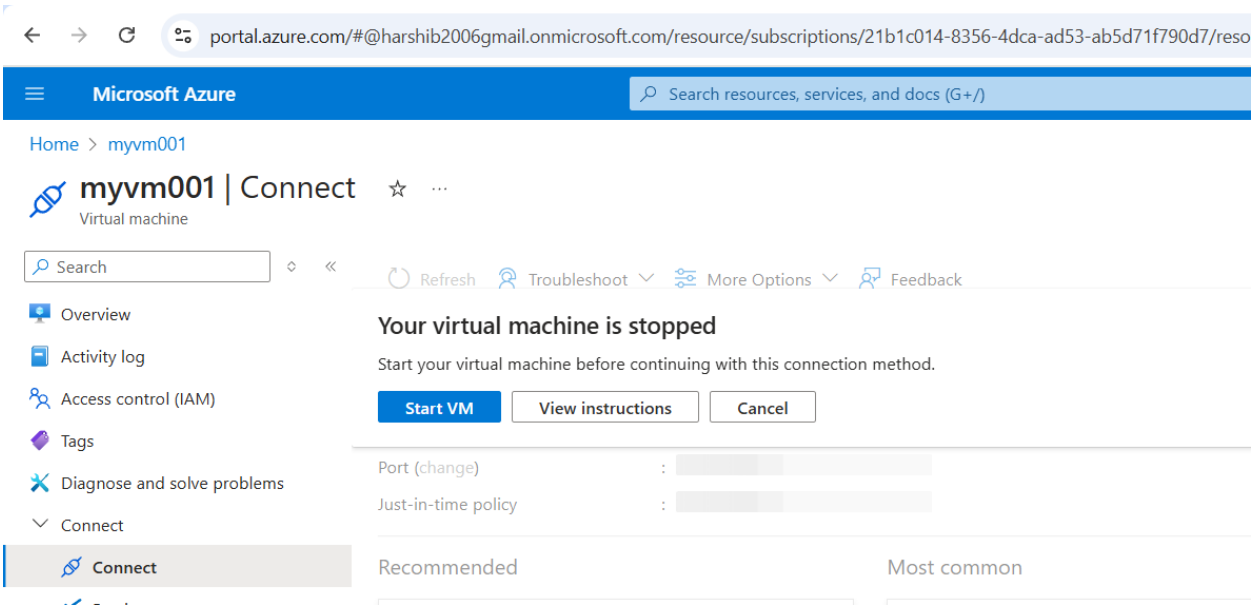
2. Select the restored VM.

3. Verify that the VM is running and has the correct configuration.



4. Connect to the VM using Remote Desktop or SSH to verify that the data is intact.





That's it! You have now taken a snapshot of your Azure VM, terminated the VM, and restored it from the snapshot.

OUTCOME

After completing, you will be able to:

1. *Take a snapshot of a cloud VM*
2. *Terminate a cloud VM*
3. *Restore a cloud VM from a snapshot*
4. *Verify the restored cloud VM*