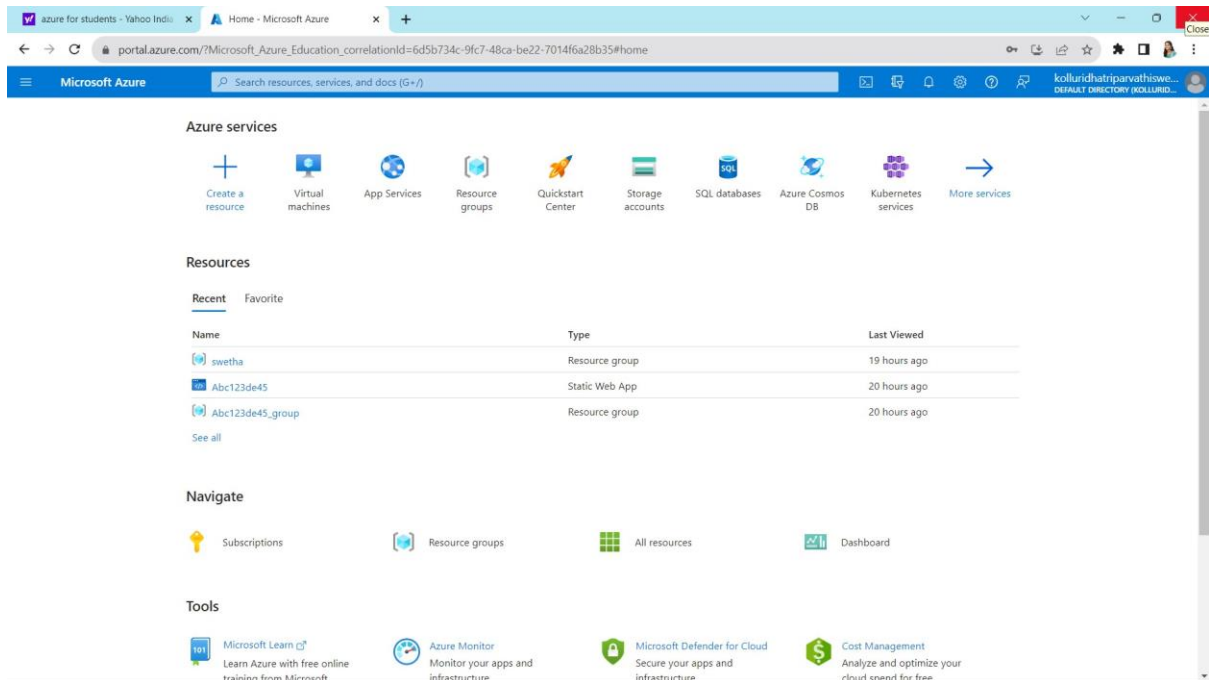


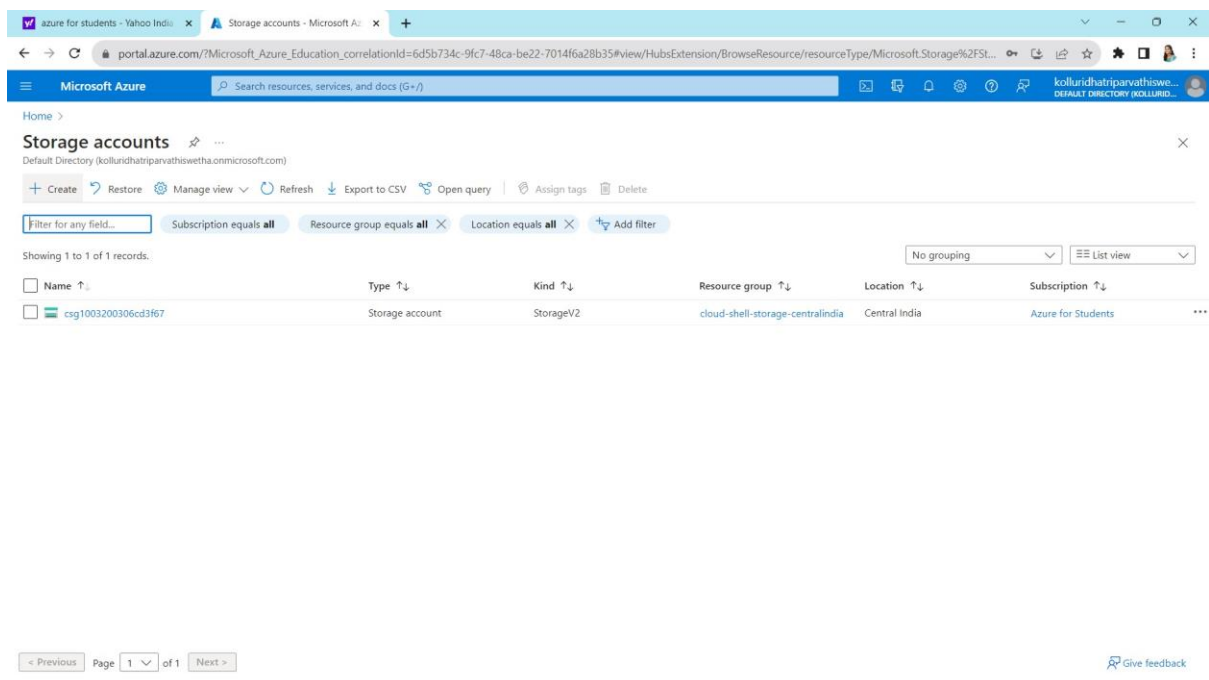
EXPERIMENT 16

Demonstrate Storage as a Service (SaaS) create and configure a new VM Image in any Public Cloud Service Provider

Click on storage accounts



Click on create



Fill up the required details

The screenshot shows the 'Create a storage account' page in the Microsoft Azure portal. The 'Basics' tab is selected, and the following details are filled in:

- Subscription:** Azure for Students
- Resource group:** Abc123de45_group (with a 'Create new' link below it)
- Storage account name:** vm1
- Region:** (Asia Pacific) South India (with a 'Deploy to an edge zone' link below it)
- Performance:** Standard (Recommended for most scenarios (general-purpose v2 account))
- Redundancy:** Geo-redundant storage (GRS) (with a checked box for 'Make read access to data available in the event of regional unavailability')

At the bottom, there is a 'Review' button, a '< Previous' button, and a 'Next : Advanced >' button. A 'Give feedback' link is also present in the bottom right corner.

Click on next

The screenshot shows the 'Create a storage account' page in the Microsoft Azure portal, with the 'Advanced' tab selected. A message at the top states: 'Certain options have been disabled by default due to the combination of storage account performance, redundancy, and region.'

Security

Configure security settings that impact your storage account.

- Require secure transfer for REST API operations:** ☒
- Allow enabling anonymous access on individual containers:** ☐
- Enable storage account key access:** ☒
- Default to Azure Active Directory authorization in the Azure portal:** ☐
- Minimum TLS version:** Version 1.2
- Permitted scope for copy operations (preview):** From any storage account

At the bottom, there is a 'Review' button, a '< Previous' button, and a 'Next : Networking >' button. A 'Give feedback' link is also present in the bottom right corner.

Click on next

The screenshot shows the 'Create a storage account' page in the Microsoft Azure portal. The 'Networking' tab is selected. The page includes a 'Network access' section with three radio button options: 'Enable public access from all networks' (selected), 'Enable public access from selected virtual networks and IP addresses', and 'Disable public access and use private access'. Below this is a 'Network routing' section with two radio button options: 'Microsoft network routing' (selected) and 'Internet routing'. At the bottom, there is a 'Review' button, a '< Previous' button, and a 'Next : Data protection >' button. A 'Give feedback' link is also present.

Click on next

The screenshot shows the 'Create a storage account' page in the Microsoft Azure portal, with the 'Data protection' tab selected. The 'Recovery' section is visible, containing three checked checkboxes: 'Enable soft delete for blobs', 'Enable soft delete for containers', and 'Enable soft delete for file shares'. Each checkbox has a corresponding 'Days to retain deleted' input field, all of which are set to '7'. At the bottom, there is a 'Review' button, a '< Previous' button, and a 'Next : Encryption >' button. A 'Give feedback' link is also present.

Click on next

The screenshot shows the 'Create a storage account' page in the Microsoft Azure portal. The 'Encryption' tab is selected. The page includes the following sections:

- Encryption type:** ☒ Microsoft-managed keys (MMK), ☐ Customer-managed keys (CMK).
- Enable support for customer-managed keys:** ☒ Blobs and files only, ☐ All service types (blobs, files, tables, and queues). A warning icon indicates: 'This option cannot be changed after this storage account is created.'
- Enable infrastructure encryption:** ☐.

At the bottom, there is a 'Review' button, a '< Previous' button, and a 'Next : Tags >' button. A 'Give feedback' link is also present.

Give some names and values

The screenshot shows the 'Create a storage account' page in the Microsoft Azure portal, with the 'Tags' tab selected. The page includes the following sections:

- Tags:** A section explaining that tags are name/value pairs used for categorizing resources and consolidated billing. It includes a link to 'Learn more about tags'.
- Note:** 'Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.'
- Tags Table:** A table with three columns: Name, Value, and Resource.

Name	Value	Resource
cloud	123	All resources selected
computing	456	All resources selected
		All resources selected

At the bottom, there is a 'Review' button, a '< Previous' button, and a 'Next : Review >' button. A 'Give feedback' link is also present.

Click on create

The screenshot shows the 'Create a storage account' page in the Microsoft Azure portal. The page is divided into 'Basics' and 'Advanced' tabs. The 'Basics' tab is active, showing the following configuration:

Property	Value
Subscription	Azure for Students
Resource Group	Abc123de45_group
Location	southindia
Storage account name	vm1
Deployment model	Resource manager
Performance	Standard
Replication	Read-access geo-redundant storage (RA-GRS)

The 'Advanced' tab is also visible, showing options like 'Enable hierarchical namespace' (Disabled), 'Enable network file system v3' (Disabled), 'Allow cross-tenant replication' (Disabled), 'Access tier' (Hot), 'Enable SFTP' (Disabled), and 'Large file shares' (Disabled).

At the bottom of the page, there is a 'Create' button, a '< Previous' button, a 'Next >' button, and a 'Download a template for automation' link. A 'Give feedback' link is also present in the bottom right corner.

Click on go to resource

The screenshot shows the 'Overview' page for a deployment in the Microsoft Azure portal. The deployment is named 'vm1_1697686475490' and is in the 'Overview' state. The page displays the following information:

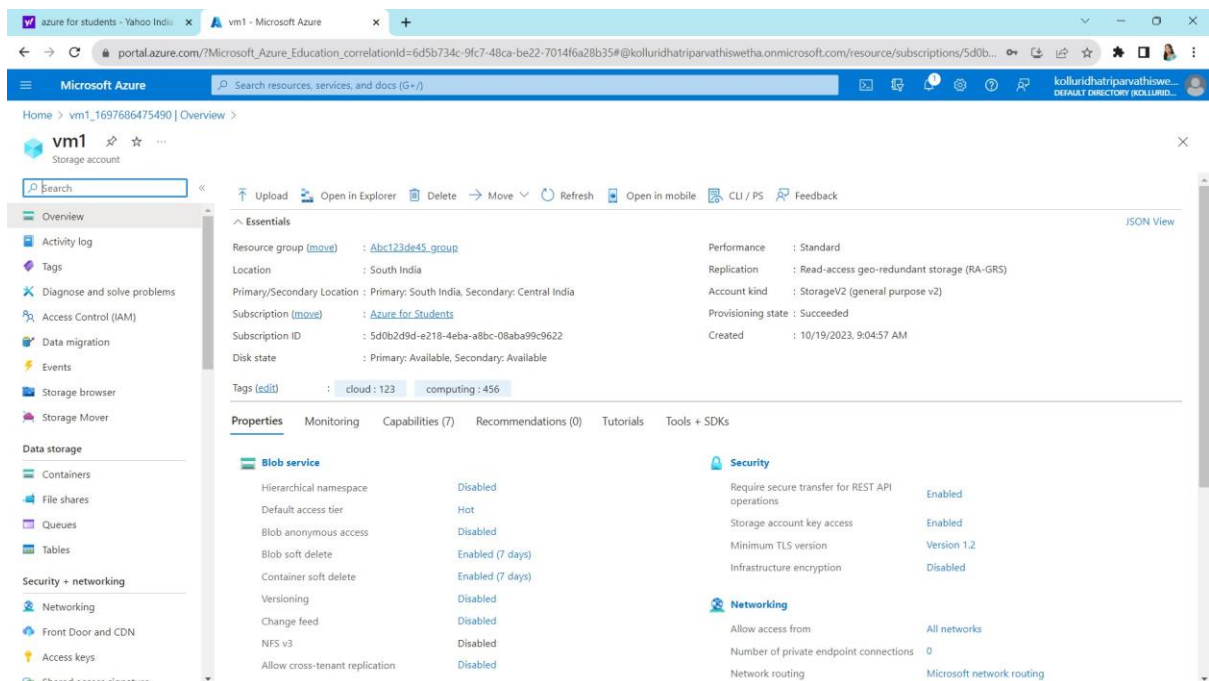
- Deployment name:** vm1_1697686475490
- Subscription:** Azure for Students
- Resource group:** Abc123de45_group
- Start time:** 19/10/2023, 9:04:47 am
- Correlation ID:** 0e22fa06-6baf-4ef3-88fd-09b630fb7b4a

The page also shows a 'Go to resource' button and a 'Give feedback' link. A 'Deployment succeeded' notification is displayed at the top right, stating: 'Deployment 'vm1_1697686475490' to resource group 'Abc123de45_group' was successful.' Below the notification, there are links to 'Go to resource' and 'Pin to dashboard'.

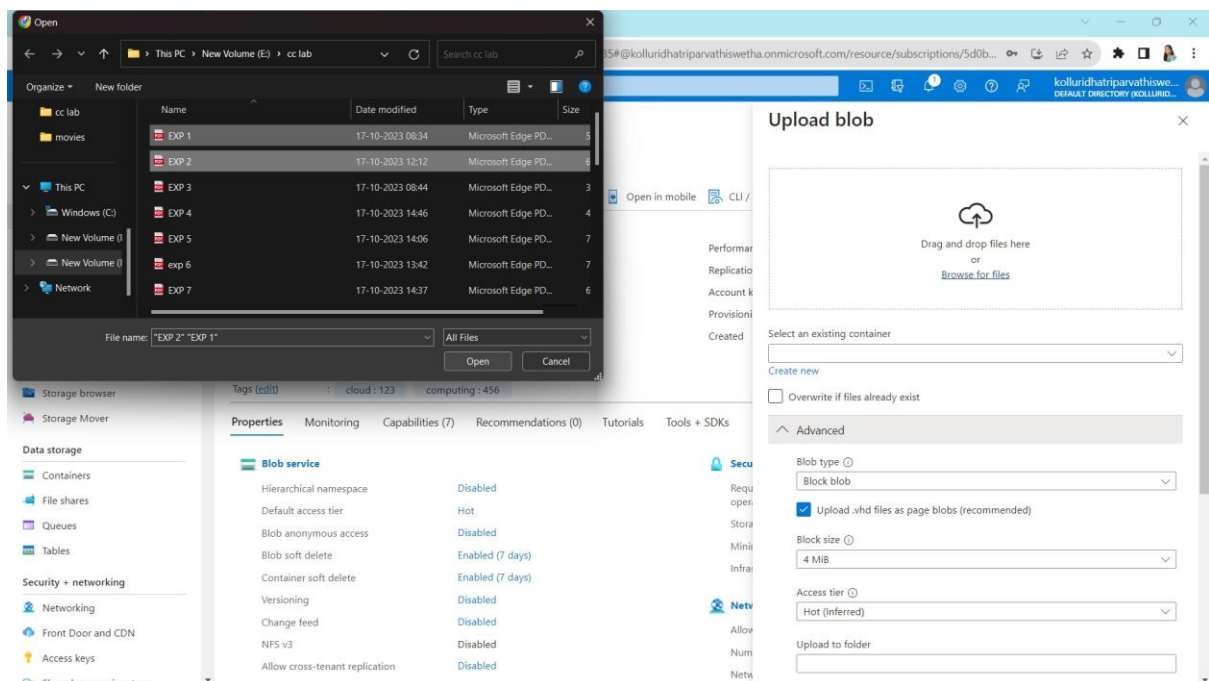
On the right side of the page, there are several sections:

- Cost Management:** Get notified to stay within your budget and prevent unexpected charges on your bill. Set up cost alerts >
- Microsoft Defender for Cloud:** Secure your apps and infrastructure. Go to Microsoft Defender for Cloud >
- Free Microsoft tutorials:** Start learning today >
- Work with an expert:** Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support. Find an Azure expert >

Click on upload which is on left side top



Select files from your system and upload it



Give a name to that storage and click on upload

The screenshot shows the Microsoft Azure portal interface. On the left, there's a sidebar with navigation options like 'Overview', 'Activity log', 'Tags', 'Diagnose and solve problems', 'Access Control (IAM)', 'Data migration', 'Events', 'Storage browser', and 'Storage Mover'. The main area displays the 'vm1' storage account overview, including details like Resource group (Abc123de45_group), Location (South India), and Subscription (Azure for Students). On the right, the 'Upload blob' dialog is open, showing configuration options for uploading a blob. The 'Blob type' is 'Block blob', and the 'Upload .vhd files as page blobs (recommended)' checkbox is checked. The 'Block size' is '4 MiB', and the 'Access tier' is 'Hot (Inferred)'. The 'Upload to folder' field is empty. The 'Blob index tags' section is also empty. The 'Upload' button is visible at the bottom right of the dialog.

Go to home and choose your file and open it

Click on storage browser

The screenshot shows the Microsoft Azure portal interface. On the left, there's a sidebar with navigation options like 'Overview', 'Activity log', 'Tags', 'Diagnose and solve problems', 'Access Control (IAM)', 'Data migration', 'Events', 'Storage browser', and 'Storage Mover'. The main area displays the 'vm1' storage account overview, including details like Resource group (Abc123de45_group), Location (South India), and Subscription (Azure for Students). The 'Storage browser' section is active, showing a list of files and folders. The 'Blob service' section is also visible, showing details like Hierarchical namespace (Disabled), Default access tier (Hot), and Blob anonymous access (Disabled).

Select blob containers

The screenshot shows the Microsoft Azure Storage browser interface for a storage account named 'vm1'. The left sidebar contains navigation options: Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, Storage browser (selected), Storage Mover, Data storage, Containers, File shares, Queues, Tables, Security + networking, Networking, Front Door and CDN, and Access keys. The main area displays 'Storage account metrics' for various storage services. The 'Blob containers' section shows metrics for Number of containers, Number of blobs, and Total data stored. The 'File shares' section shows metrics for Number of file shares, Number of files, and Total data stored. The 'Tables' section shows metrics for Number of tables, Number of entities, and Total data stored. The 'Queues' section shows metrics for Number of queues, Number of messages, and Total data stored. The 'Recently viewed' section shows resources as they are viewed. The 'Other ways to manage data' section mentions the Azure Storage Explorer desktop client.

Select your file and open it

The screenshot shows the Microsoft Azure Storage browser interface for a storage account named 'vm1'. The left sidebar contains navigation options: Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, Storage browser (selected), Storage Mover, Data storage, Containers, File shares, Queues, Tables, Security + networking, Networking, Front Door and CDN, and Access keys. The main area displays 'Blob containers' with a search bar and a table of containers. The table has columns for Name, Last modified, Anonymous access level, and Lease state. Two containers are listed: '\$logs' and 'storage'.

Name	Last modified	Anonymous access level	Lease state
\$logs	10/19/2023, 9:05:30 AM	Private	Available
storage	10/19/2023, 9:07:26 AM	Private	Available

The files which are stored before will opened here

vm1 | Storage browser

Search

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Data storage

Containers

File shares

Queues

Tables

Security + networking

Networking

Front Door and CDN

Access keys

Shared access signature

vm1

Favorites

Recently viewed

Blob containers

storage

View all

File shares

Queues

Tables

+ Add Directory

Upload

Change access level

Refresh

Delete

Copy

Paste

Rename

Acquire lease

Blob containers > storage

Authentication method: Access key (Switch to Azure AD User Account)

Add filter

Search blobs by prefix (case-sensitive)

Only show active blobs

Showing all 2 items

<input type="checkbox"/>	Name	Last modified	Access tier	Blob type	Size	Lease state	
<input type="checkbox"/>	EXP_1.pdf	10/19/2023, 9:07:59 AM	Hot (Inferred)	Block blob	540.9 KiB	Available	...
<input type="checkbox"/>	EXP_2.pdf	10/19/2023, 9:07:59 AM	Hot (Inferred)	Block blob	646.59 KiB	Available	...