



IT4090

Cloud Computing

4th Year, 2nd Semester

Azure Lab 2

Attach a new disk

Submitted to
Sri Lanka Institute of Information Technology

IT21510380

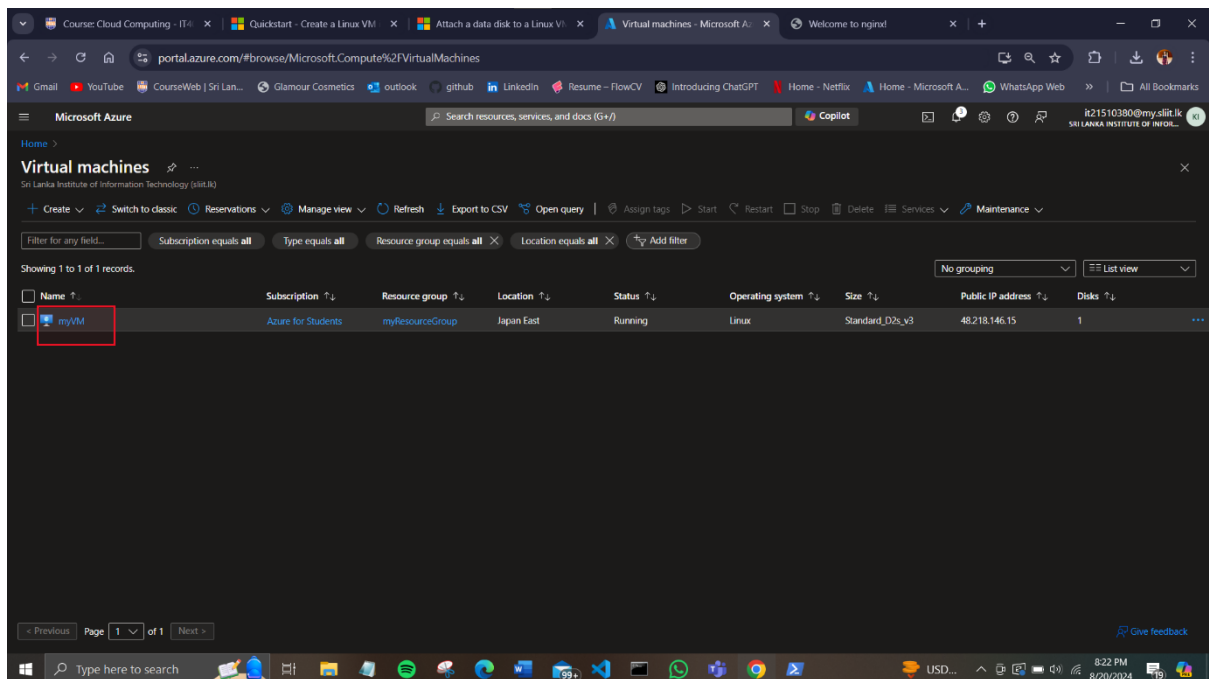
In partial fulfillment of the requirements for the
Bachelor of Science Special Honors Degree in Information Technology

August 2024

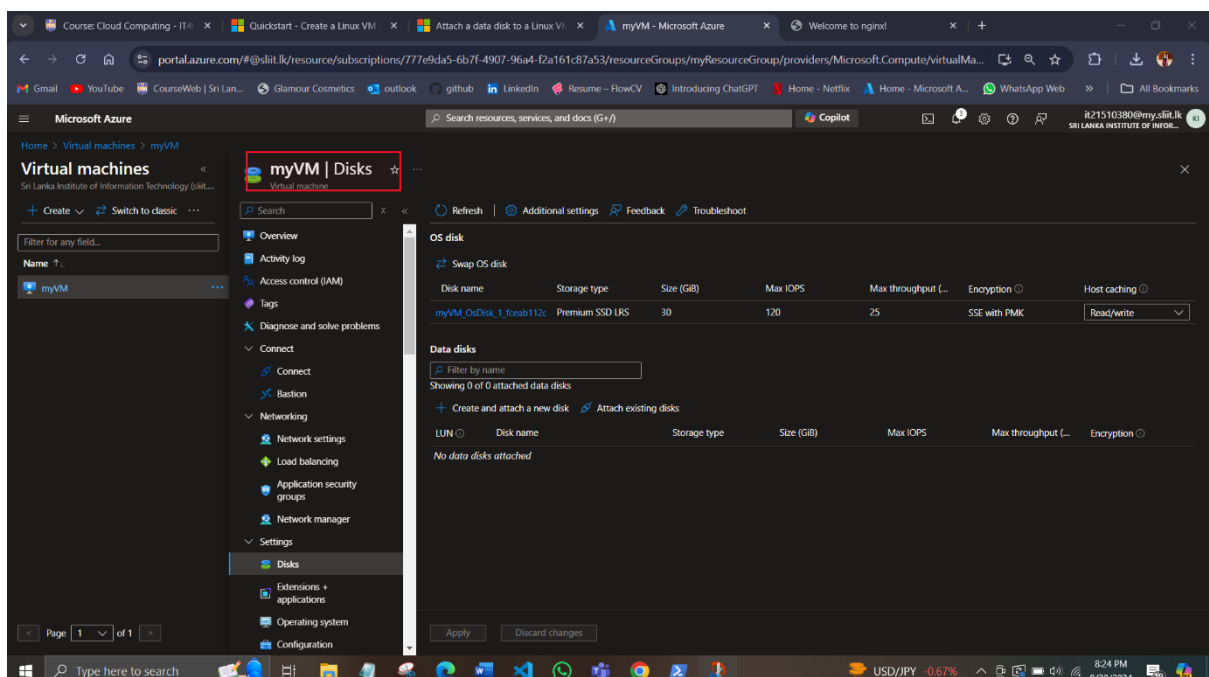
Find the virtual machine

Follow these steps:

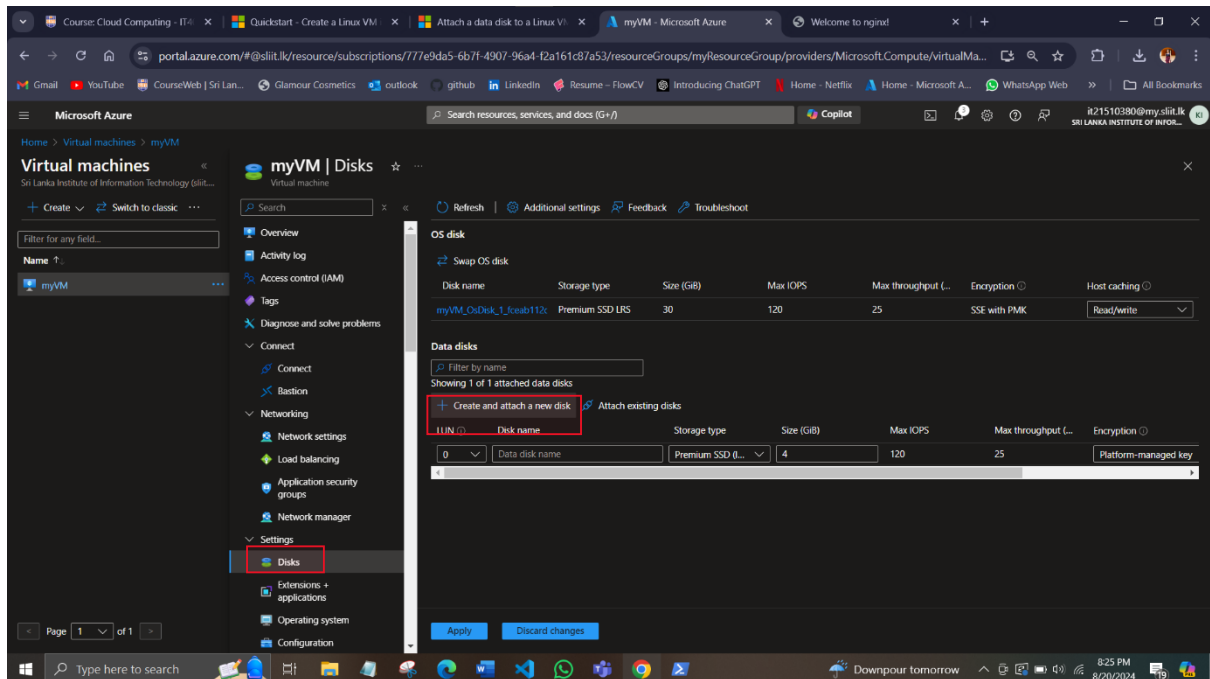
1. Go to the **Azure portal** to find the VM. Search for and select **Virtual machines**.



2. Select the VM you'd like to attach the disk to from the list.



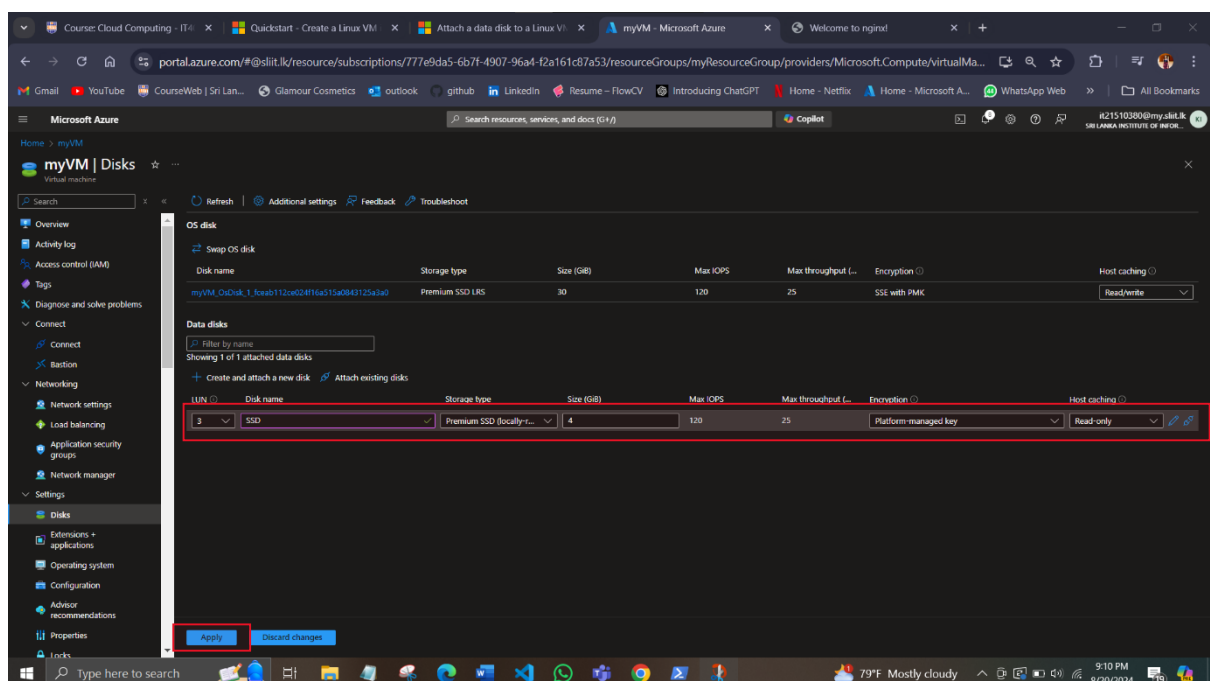
3. In the **Virtual Machines** page, under **Settings**, select **Disks**,

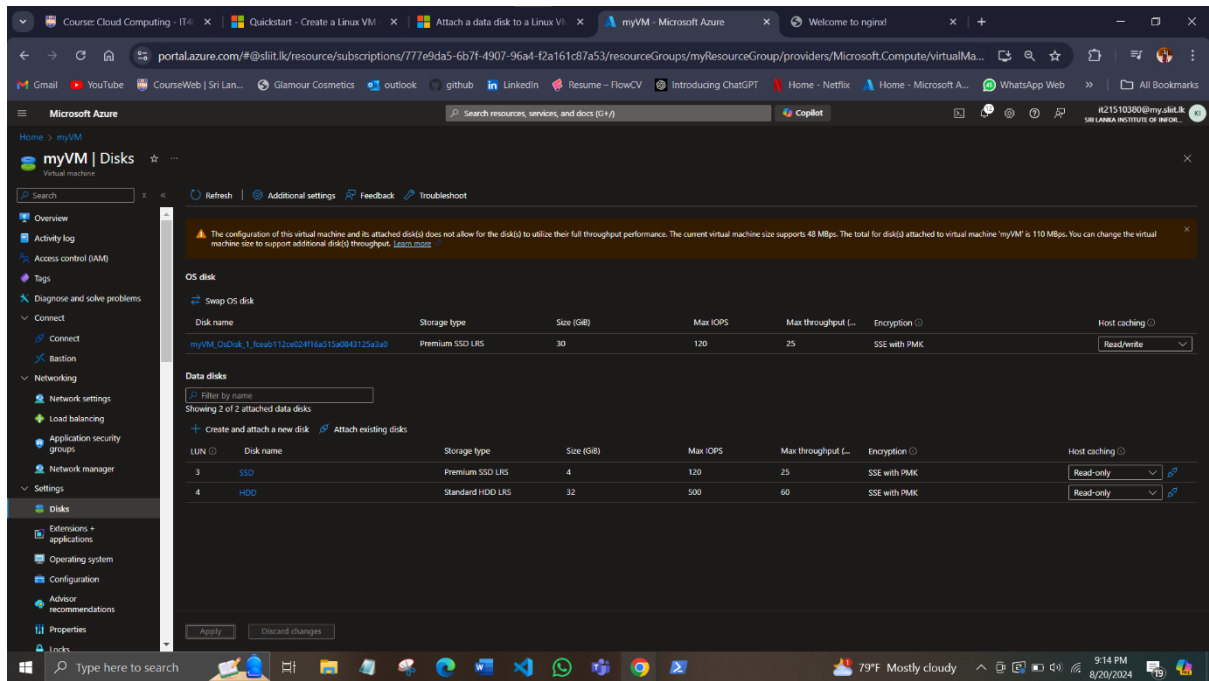


Attach a new disk

Follow these steps:

1. On the **Disks** pane, under **Data disks**, select **Create and attach a new disk**, Enter a name for your managed disk. Review the default settings, and update the **Storage type**, **Size (GiB)**, **Encryption**, and **Host caching** as necessary.

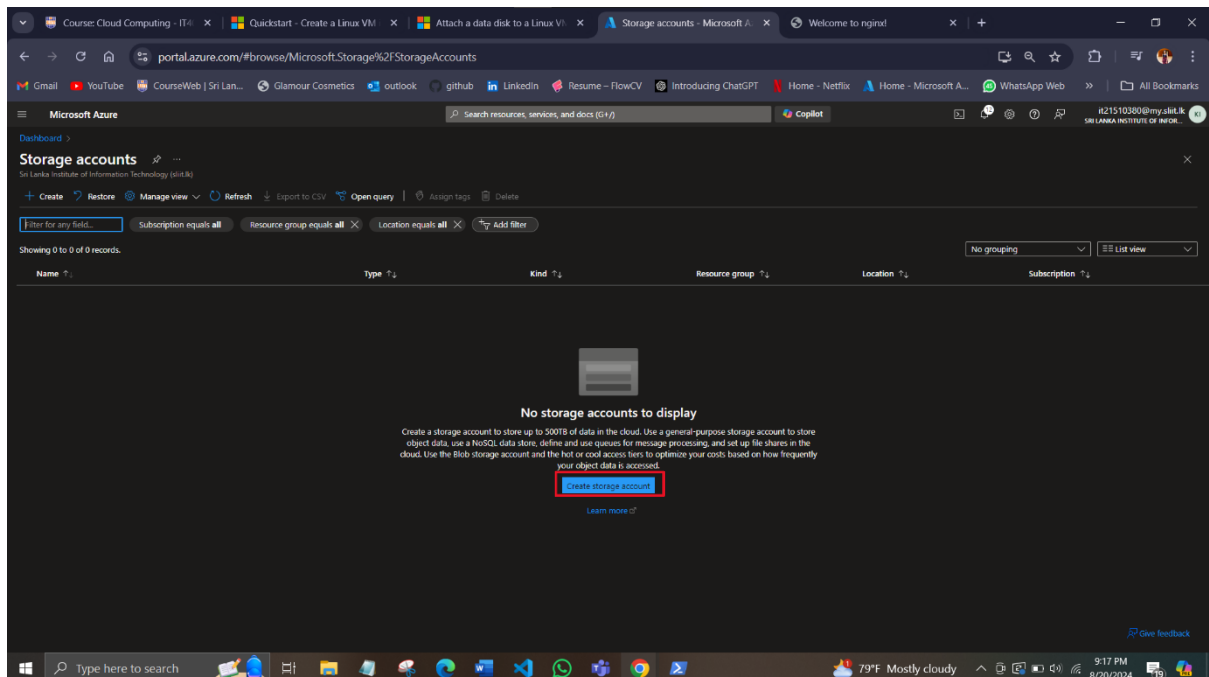




Create a storage account

Follow these steps:

1. Under **Azure services**, select **Storage accounts**. Select **+ Create** to create a storage account.



2. Under **Instance details**, provide a name for the storage account.
3. In **Region**, select the region you want to create your storage account in.
4. In **Performance**, keep the default value of **Standard**.
5. In **Redundancy**, select **Locally redundant storage (LRS)**.

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portal.azure.com/#create/Microsoft.StorageAccount-ARM

Microsoft Azure

Dashboard > Storage accounts >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review + create

Azure Storage is a Microsoft managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription * Azure for Students

Resource group * myResourceGroup
[Create new](#)

Instance details

Storage account name *

Region * (Asia Pacific) Japan East
[Deploy to an Azure Extended Zone](#)

Performance * ☒ Standard: Recommended for most scenarios (general purpose v2 account)
☐ Premium: Recommended for scenarios that require low latency.

Redundancy * Geo-redundant storage (GRS)
☒ Make read access to data available in the event of regional unavailability.

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79°F Mostly cloudy 9:17 PM 8/20/2024

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portal.azure.com/#create/Microsoft.StorageAccount-ARM

Microsoft Azure

Home > Storage accounts >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review + create

Azure Storage is a Microsoft managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription * Azure for Students

Resource group * myResourceGroup
[Create new](#)

Instance details

Storage account name * jashudi

Region * (US) East US 2
[Deploy to an Azure Extended Zone](#)

Primary service * Select a primary service

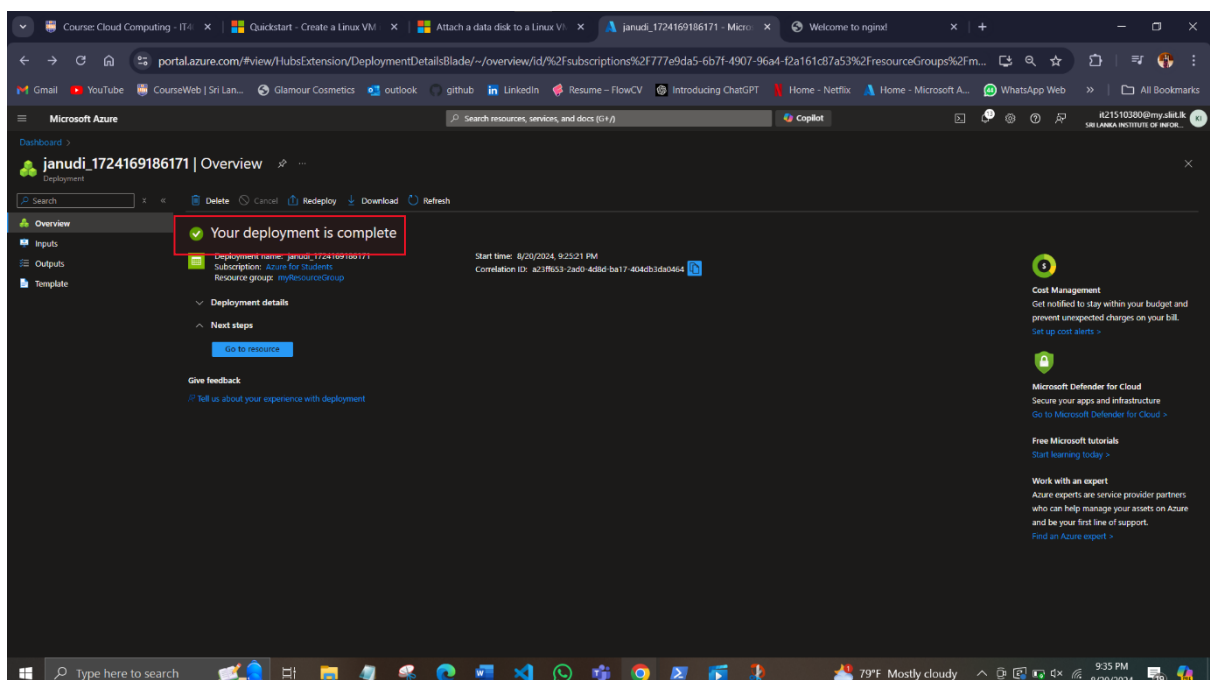
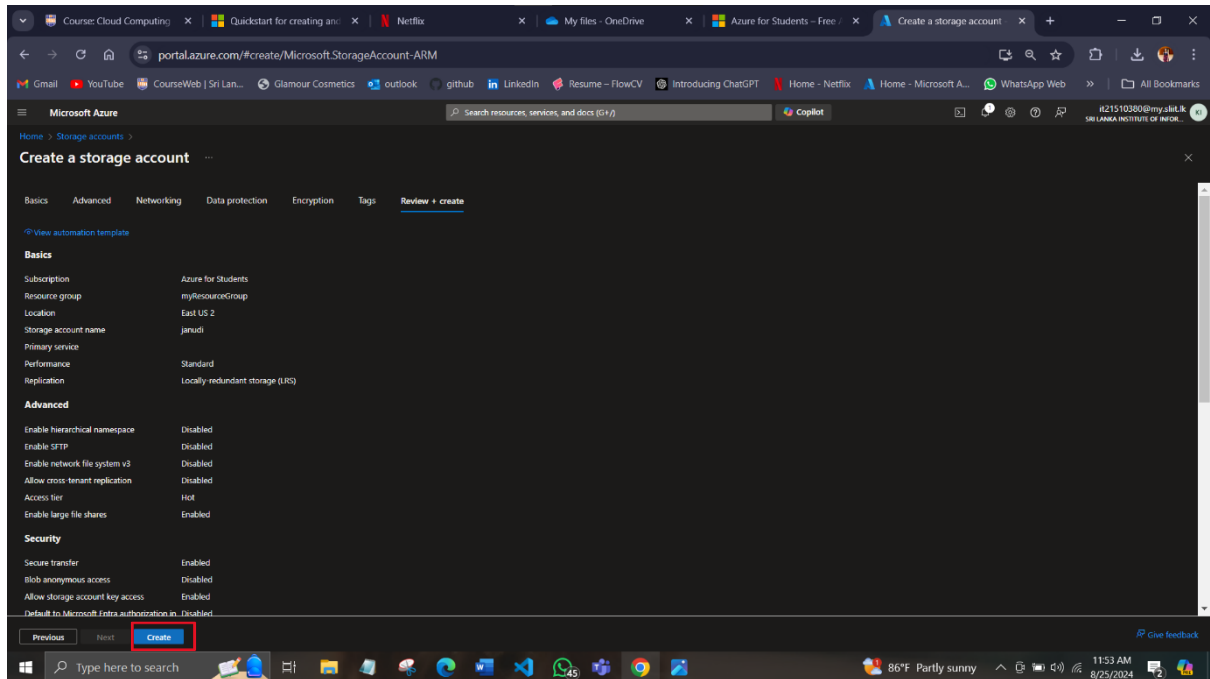
Performance * ☒ Standard: Recommended for most scenarios (general purpose v2 account)
☐ Premium: Recommended for scenarios that require low latency.

Redundancy * Locally-redundant storage (LRS)

Previous Next Review + create

86°F Partly sunny 11:52 AM 8/25/2024

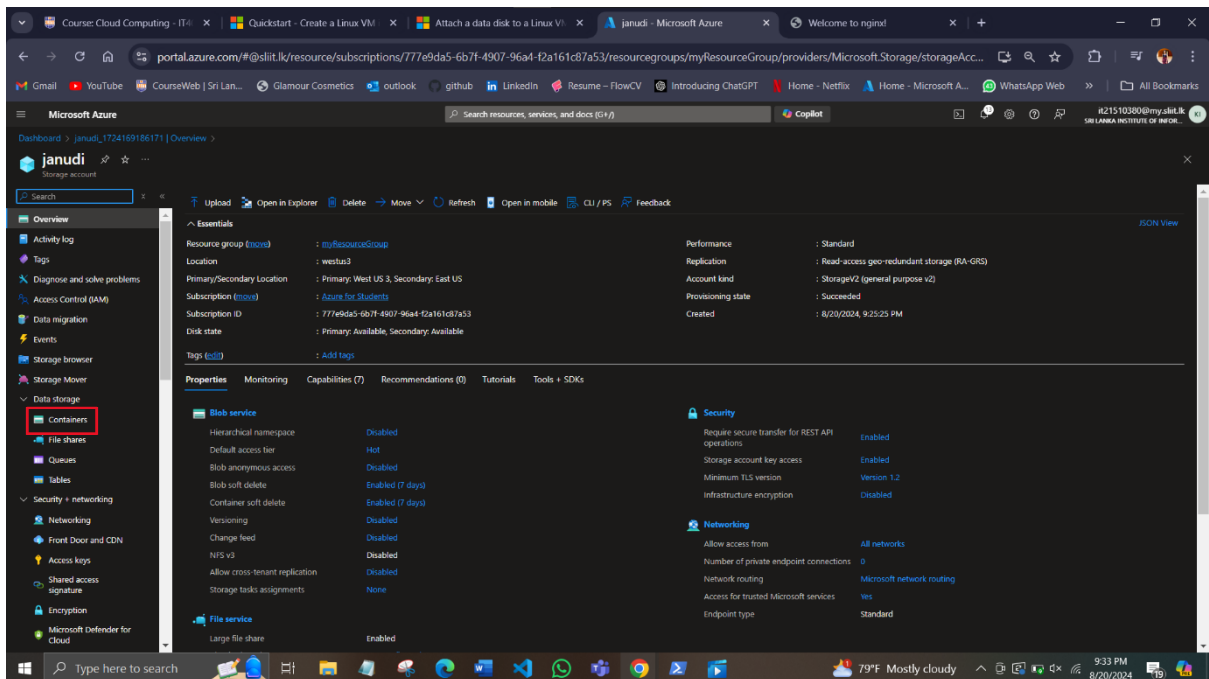
6. Select **Review** to review your settings. Azure will run a final validation.
7. When validation is complete, select **Create**. You should see a notification that deployment is in progress.



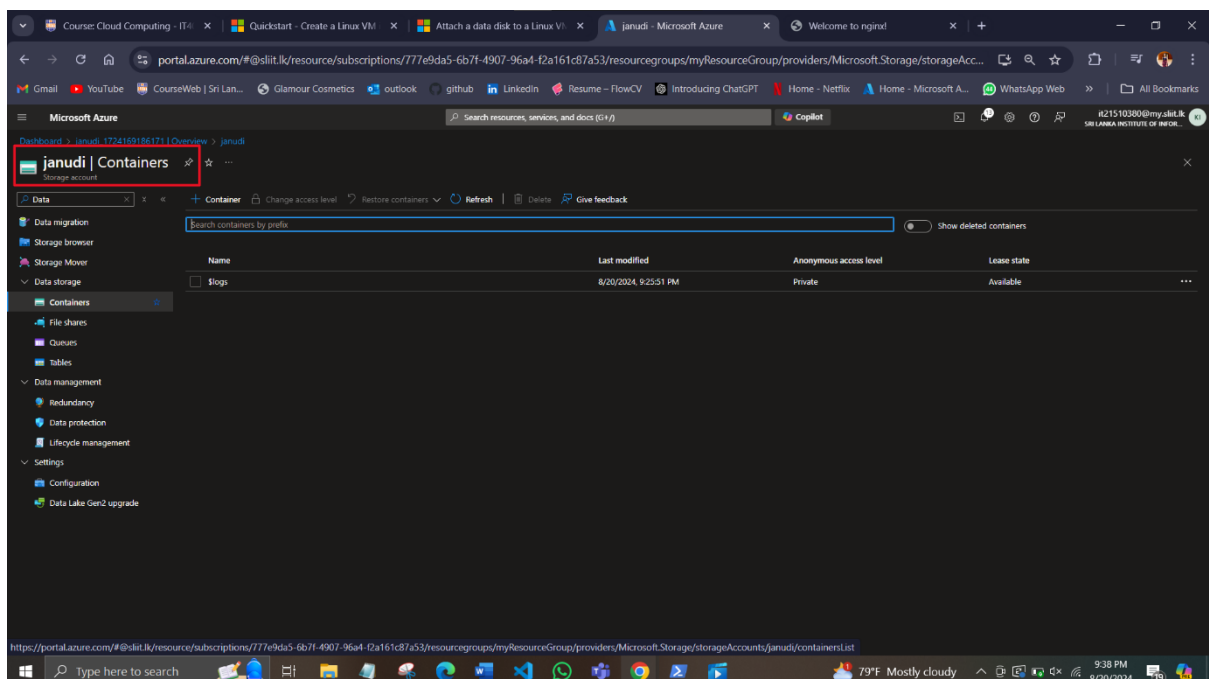
Create a container

Follow these steps:

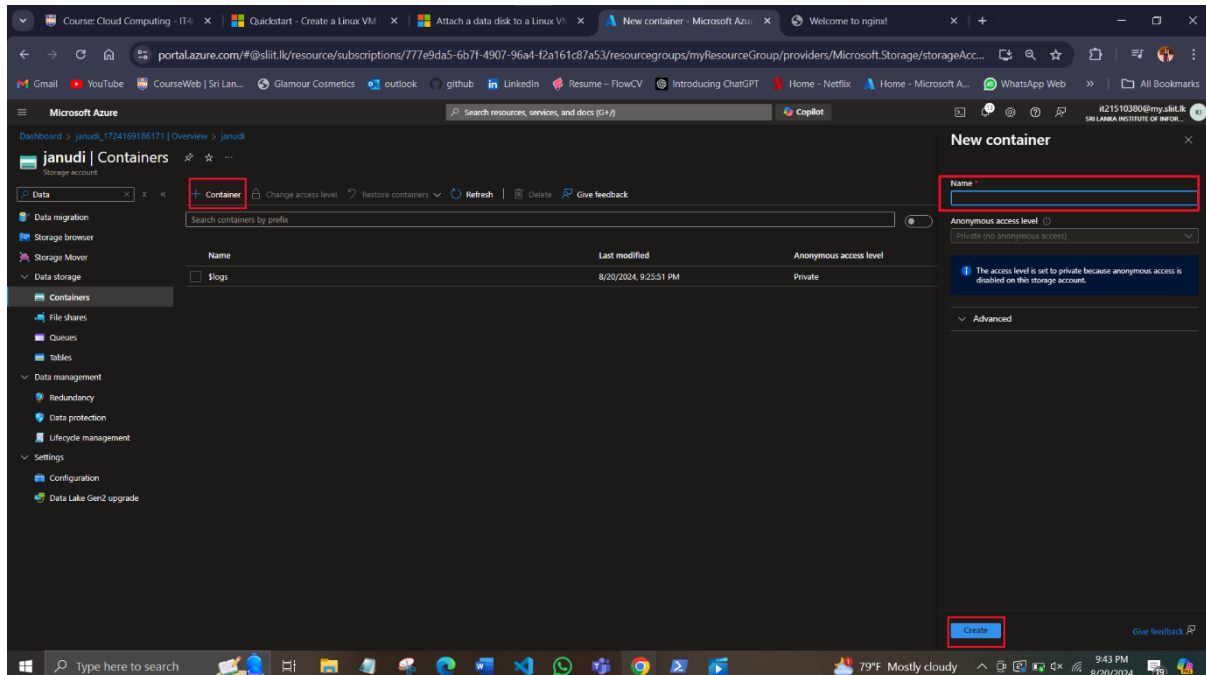
1. Navigate to your new storage account in the Azure portal.



2. In the left menu for the storage account, scroll to the **Data storage** section, then select **Containers**.



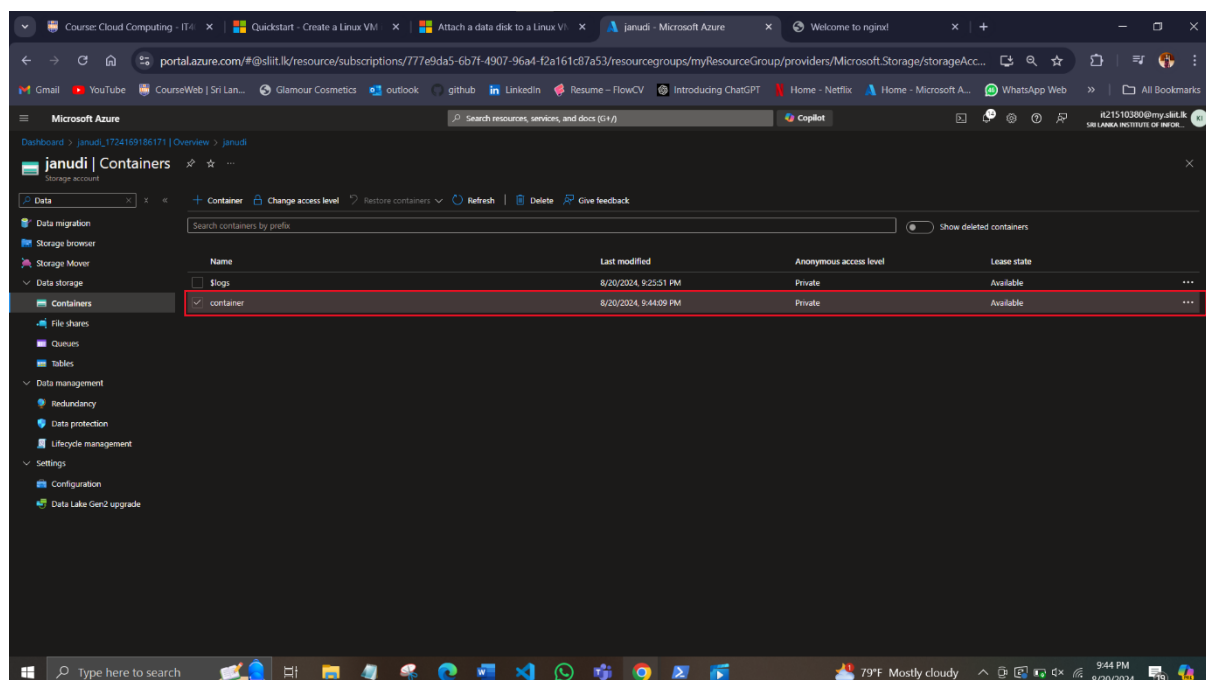
3. Select the + **Container** button.



4. Type a name for your new container.

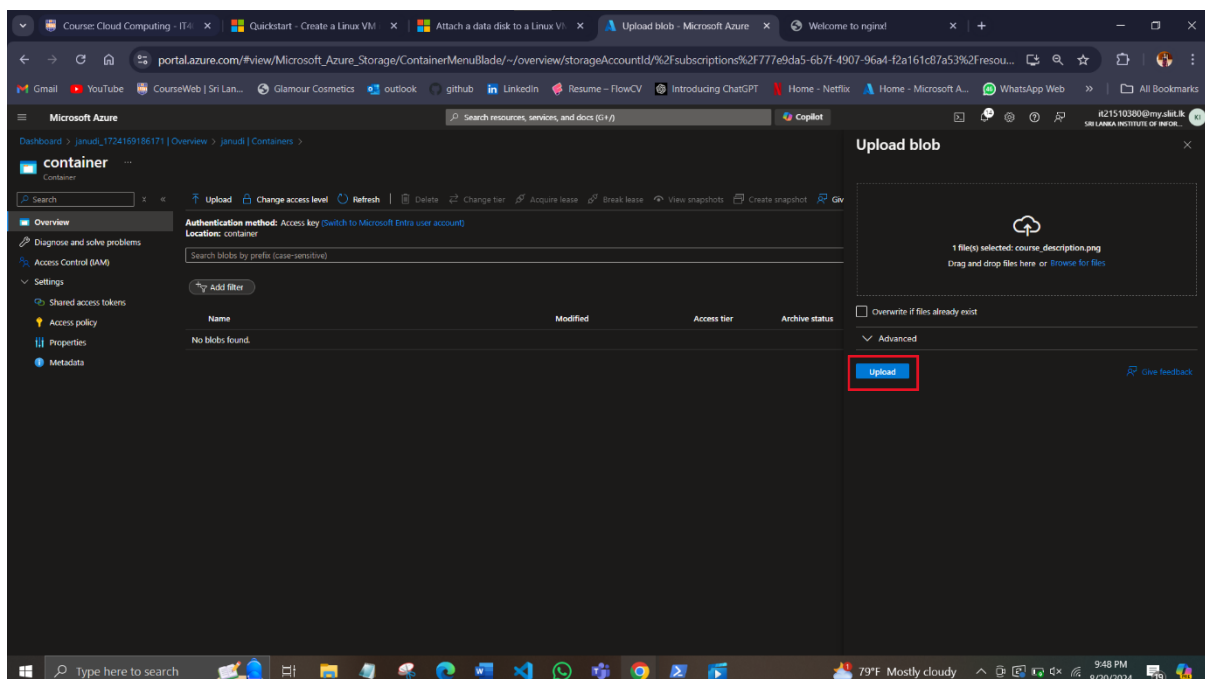
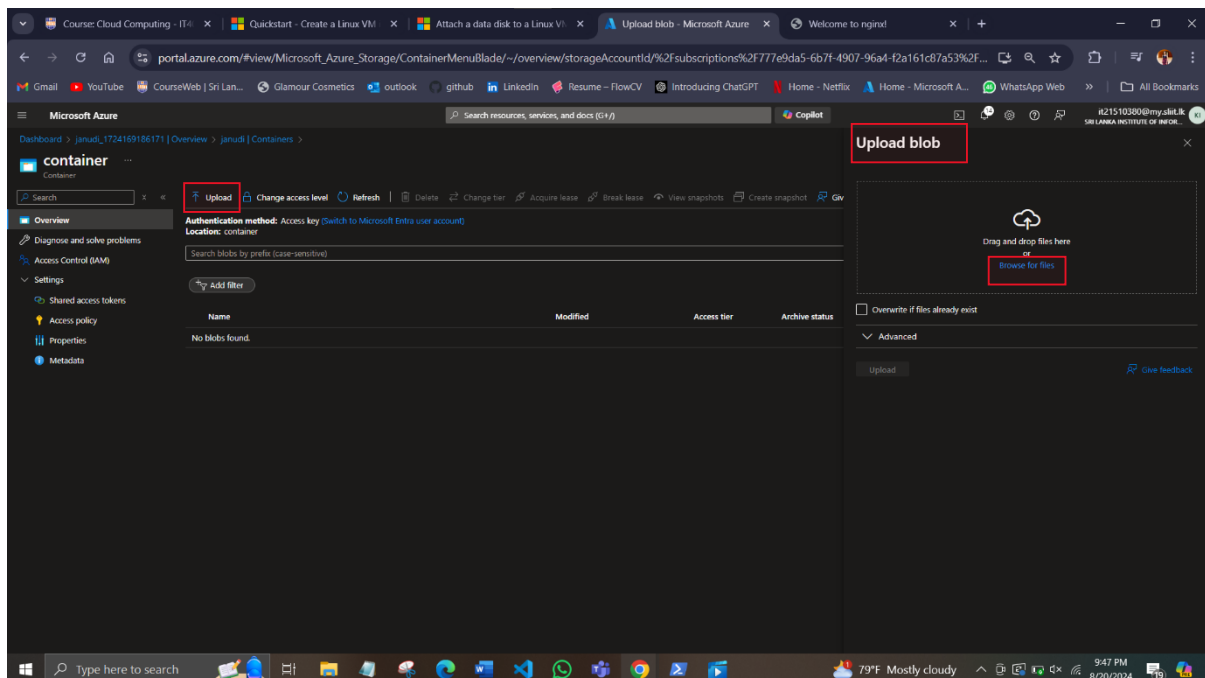
5. Set the level of anonymous access to the container. The default level is **Private (no anonymous access)**.

6. Select **Create** to create the container



Upload a block blob

1. Select the **Upload** button to open the upload blade and browse your local file system to find a file to upload as a block blob.



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portal.azure.com/#view/Microsoft_Azure_Storage/BlobPropertiesBladeV2/storageAccountId/%2Fsubscriptions%2F777e9da5-6b7f-4907-96a4-42a161c87a53%2Fresourcegroups...

Microsoft Azure

container

Authentication method: Access key (Switch to Microsoft Entra user account)
Location: container

Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

Name

course_description.png

course_description.png

Overview Versions Snapshots Edit Generate SAS

Properties

URL: https://janudi.blob.core...

LAST MODIFIED: 8/20/2024, 9:49:16 PM

CREATION TIME: 8/20/2024, 9:49:16 PM

VERSION ID: -

TYPE: Block blob

SIZE: 78.93 KB

ACCESS TIER: Hot (Inferred)

ACCESS TIER LAST MODIFIED: N/A

ARCHIVE STATUS: -

REHYDRATE PRIORITY: -

SERVER ENCRYPTED: true

ETAG: 0a80cc133d6406cf5

VERSION-LEVEL IMMUTABILITY POLICY: Disabled

CACHE-CONTROL: -

CONTENT-TYPE: image/png

CONTENT-MD5: d51d146jWRB5xH3W4kg=

CONTENT-ENCODING: -

CONTENT-LANGUAGE: -

CONTENT-DISPOSITION: -

LEASE STATUS: Unlocked

LEASE STATE: Available

LEASE DURATION: -

79°F Mostly cloudy 9:54 PM 8/20/2024

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portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenuBlade/~/overview/storageAccountId/%2Fsubscriptions%2F777e9da5-6b7f-4907-96a4-42a161c87a53%2Fresou...

Microsoft Azure

container

Authentication method: Access key (Switch to Microsoft Entra user account)
Location: container

Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

Name Modified Access tier Archive status Blob type Size Lease state

course_description.png 8/20/2024, 9:49:16 PM Hot (Inferred) - Block blob 78.93 KB Available

Successfully uploaded blob(s)
Successfully uploaded 1 blob(s).

79°F Mostly cloudy 9:49 PM 8/20/2024

Clean up resources

The screenshot shows the Microsoft Azure portal interface. On the left, the 'Storage accounts' section is expanded, and the 'janudi' storage account is selected. The main pane displays the account's details, including its resource group, location, and various settings. On the right, the 'Delete storage account' dialog is open, showing a table of dependent resources to be deleted:

Resource	Number of instances	Total data stored
Containers	-	-
File shares	-	-
Tables	-	-
Queues	-	-

Below the table, there is a text input field for 'Enter storage account name to confirm deletion' with the value 'janudi' entered. A red box highlights the 'Delete' button in the dialog.

The screenshot shows the Microsoft Azure portal interface. The 'Storage accounts' section is expanded, and the main pane displays a message indicating that no storage accounts are displayed. The message text reads:

No storage accounts to display

Create a storage account to store up to 500TB of data in the cloud. Use a general-purpose storage account to store object data, use a NoSQL data store, define and use queues for message processing, and set up file shares in the cloud. Use the Blob storage account and the hot or cool access tiers to optimize your costs based on how frequently your object data is accessed.

Below the message, there is a 'Create storage account' button and a 'Learn more' link.