

Assignment – Introduction To Azure Storage

Module 3: Assignment – 1

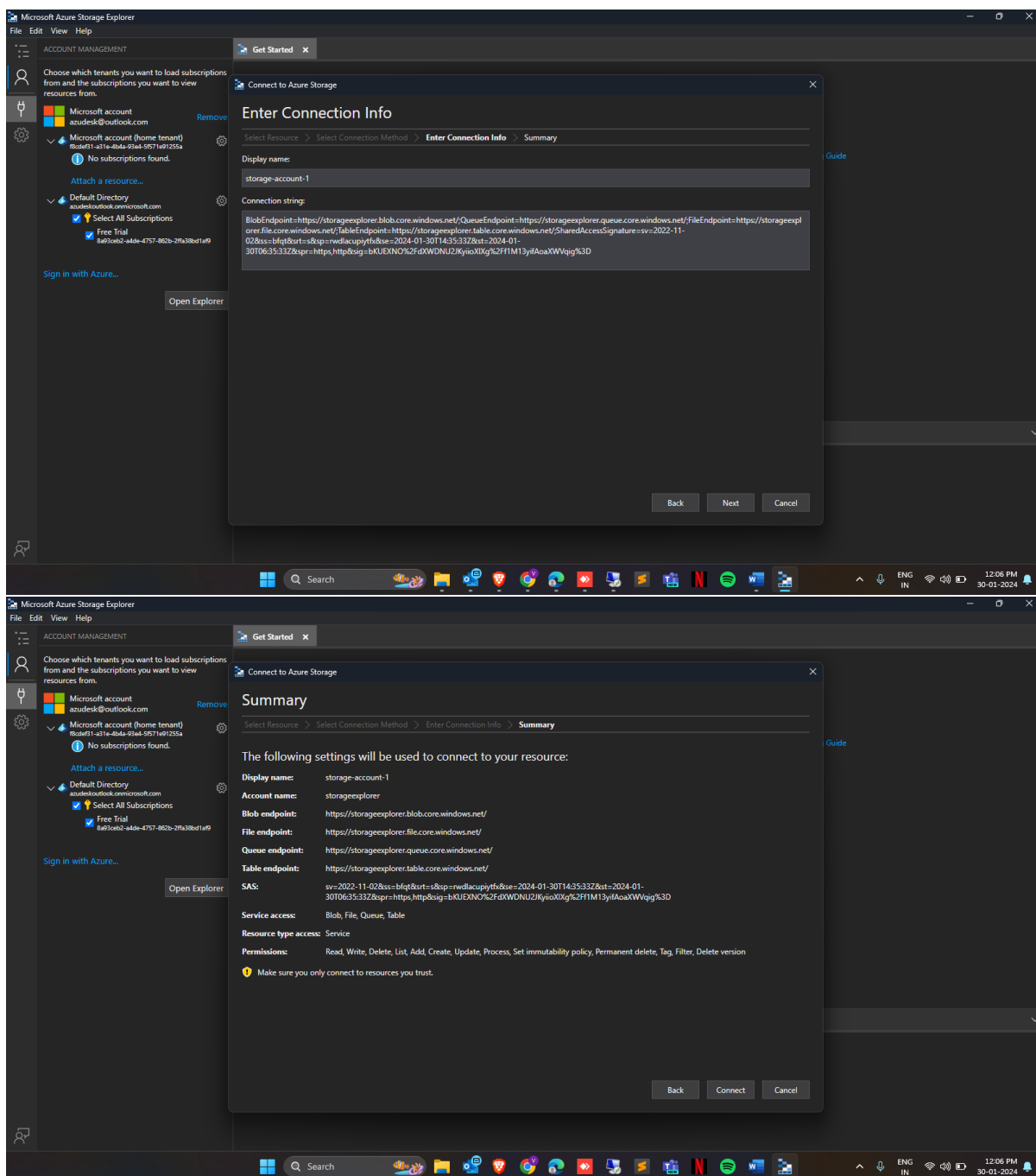
Tasks To Be Performed:

1. Create a storage account
2. Connect storage explorer to this storage account

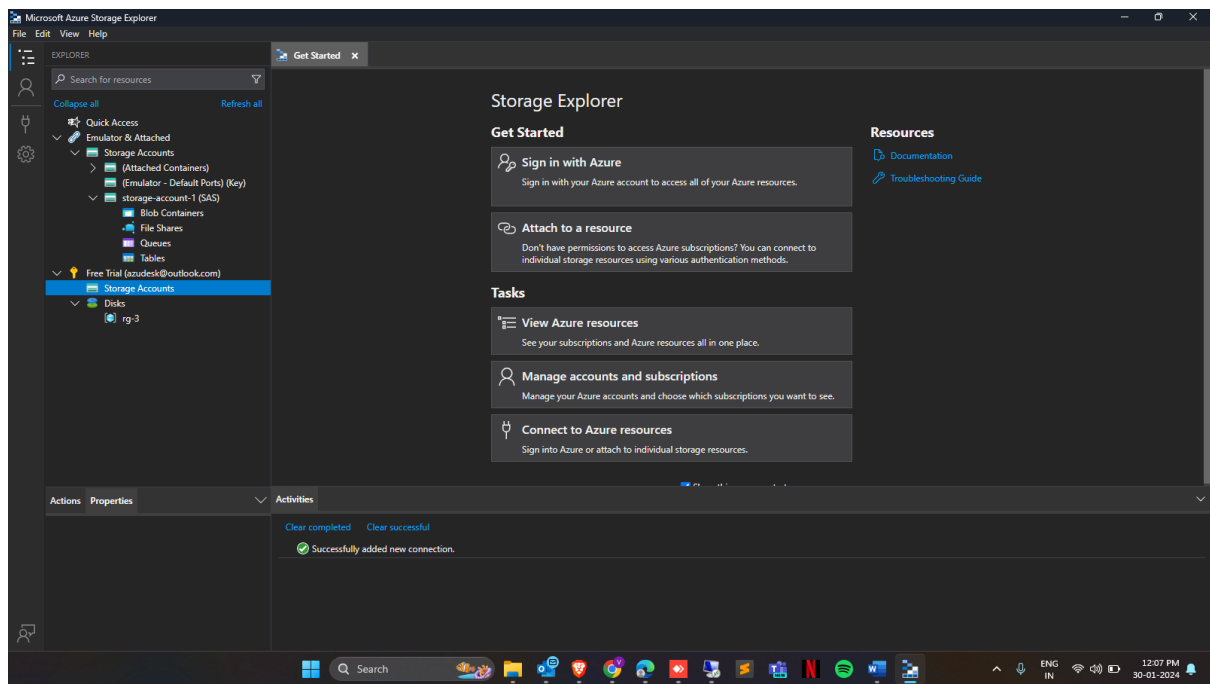
The first screenshot shows the 'Overview' page of the storage account 'storageexplorer'. The account is located in the 'centralindia' region. The 'Performance' section shows 'Standard' performance and 'Read-access geo-redundant storage (RA-GRS)' replication. The 'Security' section shows 'Require secure transfer for REST API operations' and 'Storage account key access' both enabled. The 'Networking' section shows 'Allow access from' set to 'All networks' and 'Network routing' set to 'Microsoft network routing'.

The second screenshot shows the 'Shared access signature' page for the same storage account. The 'Allowed protocols' are set to 'HTTPS and HTTP'. The 'Preferred routing tier' is set to 'Basic (default)'. The 'Signing key' is set to 'key1'. The 'Generate SAS and connection string' button is visible. Below this, the 'Connection string' and 'SAS token' are displayed, along with the 'Blob service SAS URL', 'File service SAS URL', 'Queue service SAS URL', and 'Table service SAS URL'.

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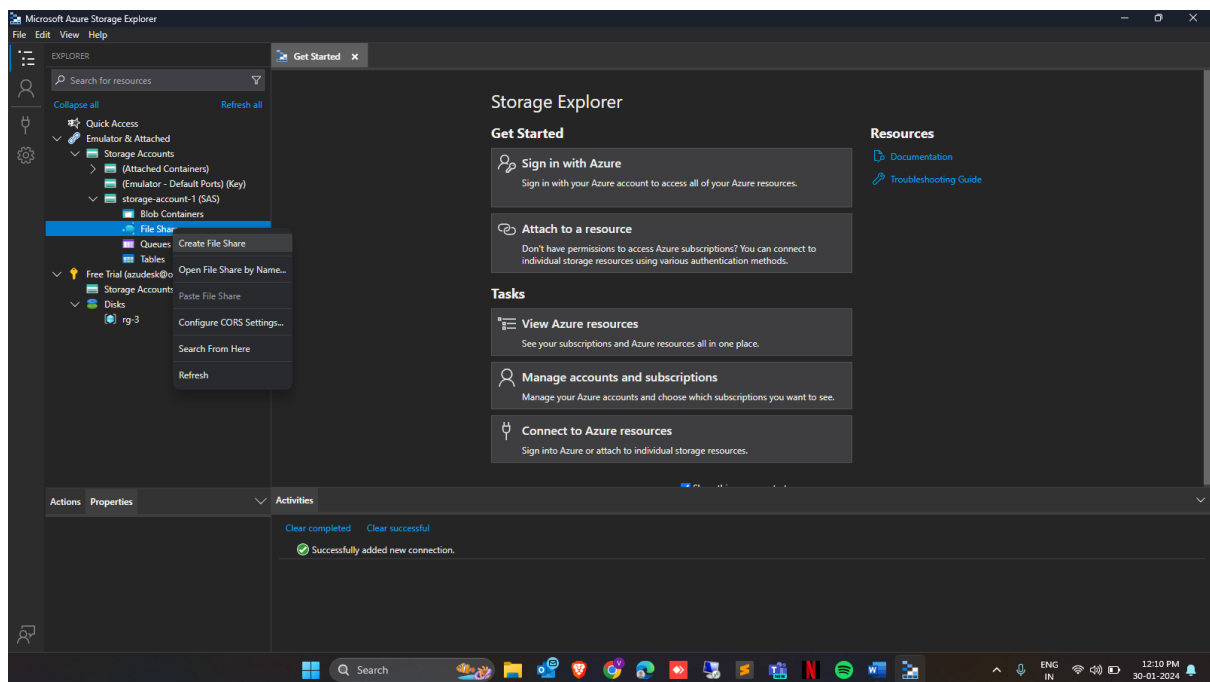


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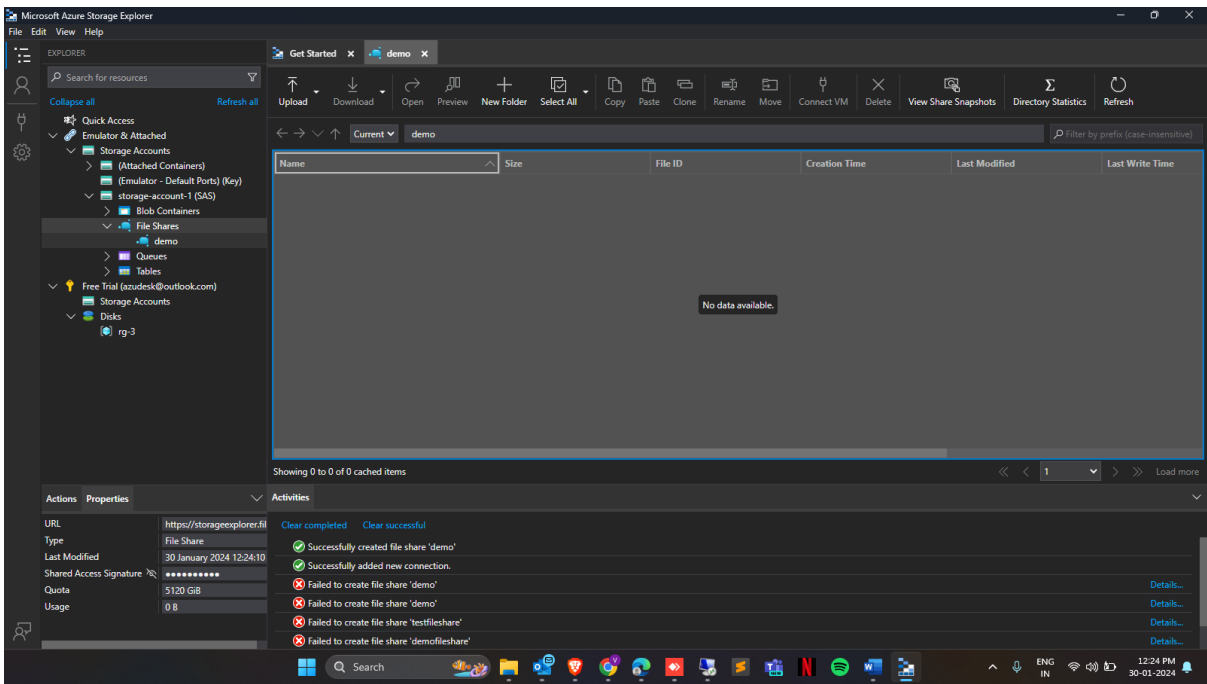
Tasks To Be Performed:

Do the following using the Storage explorer:

1. Create a file share using the Storage explorer
2. Upload files to the blob service
3. Create an Azure Table and insert a record



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The image displays two screenshots of the Microsoft Azure Storage Explorer application, illustrating the process of uploading files and creating a table in a storage account.

Top Screenshot: The interface shows the 'demo' storage account selected in the Explorer pane. The main pane displays a list of files uploaded from the local system:

Name	Size	File ID	Creation Time	Last Modified	Last Write Time
WhatsApp Image 2024-01-29 at 3.54.26 PM.jpeg	153.88 KiB	13835093239654252544	29-01-2024 03:55 PM	30-01-2024 12:25 PM	29-01-2024 03:55 PM
WhatsApp Image 2024-01-29 at 3.54.30 PM.jpeg	150.57 KiB	11529285414812647424	29-01-2024 03:55 PM	30-01-2024 12:25 PM	29-01-2024 03:55 PM
demo.mp4	1.01 MiB	13835128424026341376	30-01-2024 10:29 AM	30-01-2024 12:25 PM	30-01-2024 10:29 AM

The Activities pane shows the following actions:

- Clear completed
- Clear successful
- Transfer from 'C:\Users\ufjbs\Downloads\' to 'demo': complete: 3 items transferred (used SAS, discovery completed) Started at: 30-01-2024 12:25 PM, Duration: 4 seconds
- Successfully created file share 'demo'
- Successfully added new connection.
- Failed to create file share 'demo'
- Failed to create file share 'demo'

Bottom Screenshot: The interface shows the 'demo' storage account selected in the Explorer pane. The main pane displays a list of files uploaded from the local system:

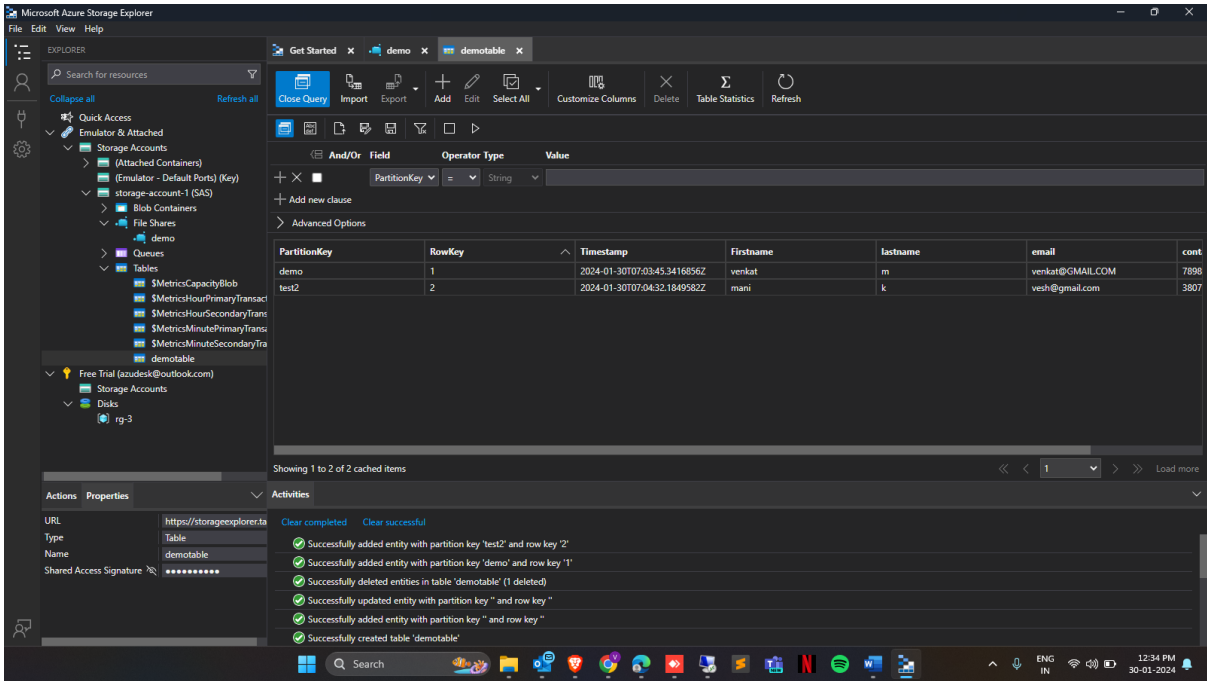
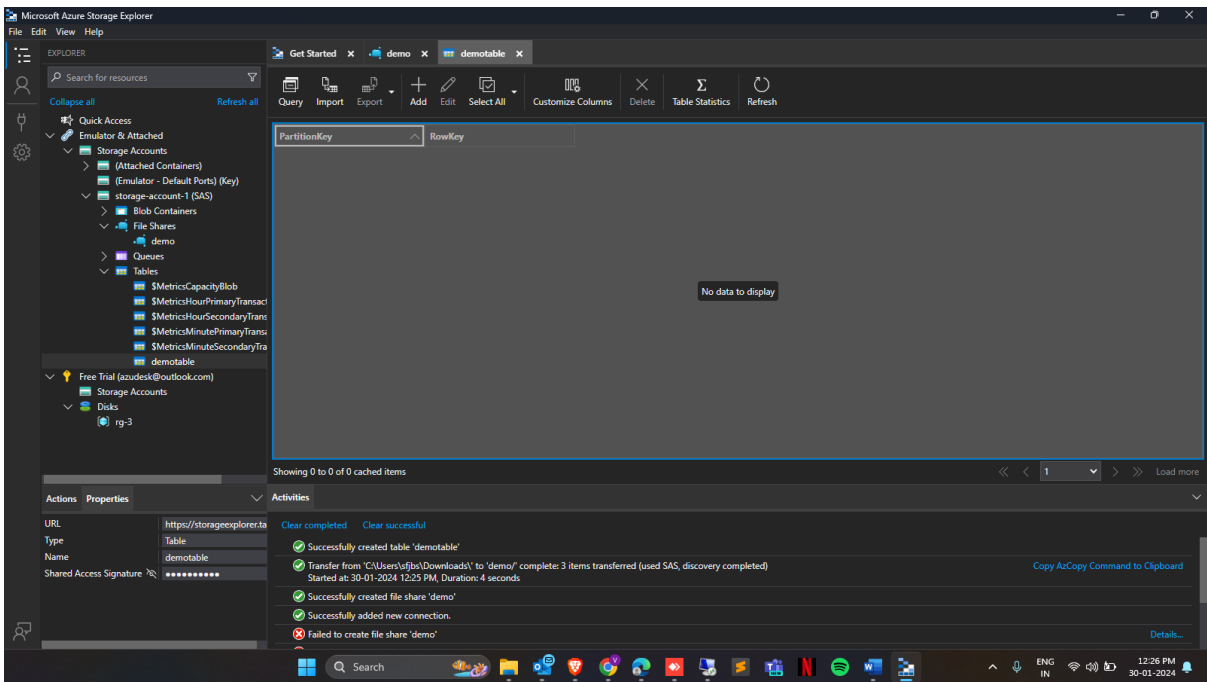
Name	Size	File ID	Creation Time	Last Modified	Last Write Time
WhatsApp Image 2024-01-29 at 3.54.26 PM.jpeg	153.88 KiB	13835093239654252544	29-01-2024 03:55 PM	30-01-2024 12:25 PM	29-01-2024 03:55 PM
WhatsApp Image 2024-01-29 at 3.54.30 PM.jpeg	150.57 KiB	11529285414812647424	29-01-2024 03:55 PM	30-01-2024 12:25 PM	29-01-2024 03:55 PM
demo.mp4	1.01 MiB	13835128424026341376	30-01-2024 10:29 AM	30-01-2024 12:25 PM	30-01-2024 10:29 AM

The Activities pane shows the following actions:

- Clear completed
- Clear successful
- Transfer from 'C:\Users\ufjbs\Downloads\' to 'demo': complete: 3 items transferred (used SAS, discovery completed) Started at: 30-01-2024 12:25 PM, Duration: 4 seconds
- Successfully created file share 'demo'
- Successfully added new connection.
- Failed to create file share 'demo'
- Failed to create file share 'demo'

The bottom screenshot also shows the 'Tables' section in the Explorer pane, with a context menu open for the 'demo' table, displaying options like 'Create Table', 'Open Table by Name...', 'Paste Table', 'Configure CORS Settings...', 'Search From Here', and 'Refresh'.

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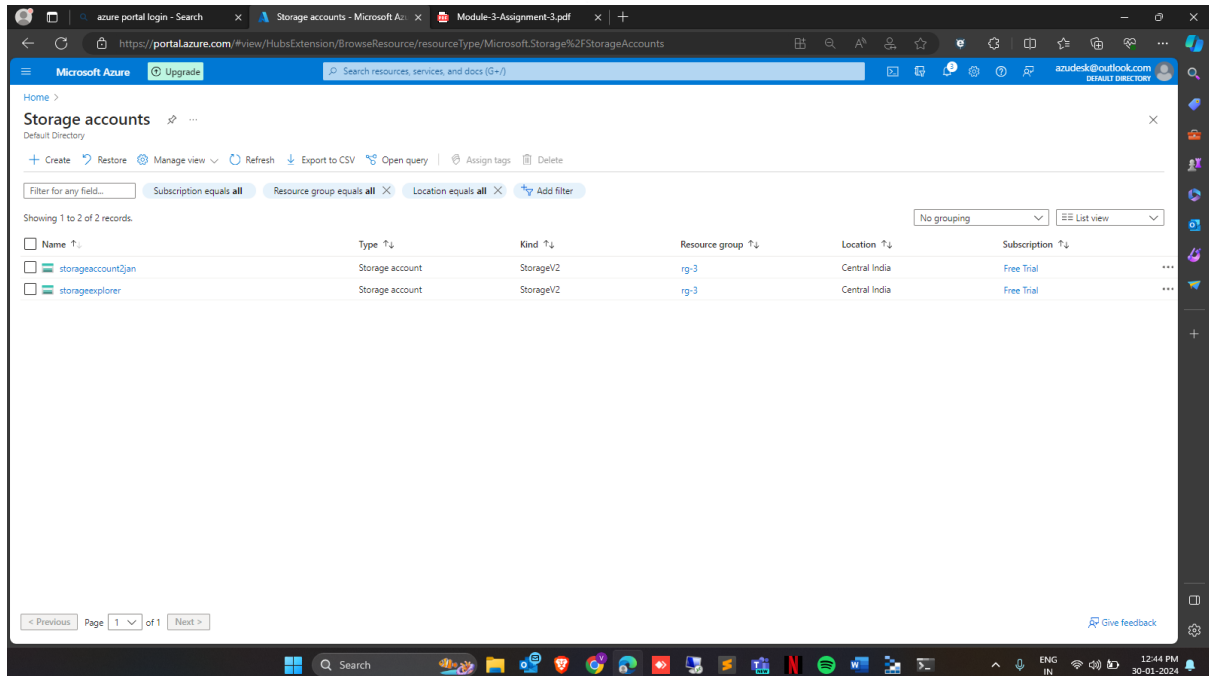


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Module 3: Assignment – 3

Tasks To Be Performed:

1. Create two storage accounts and create a container inside it
2. Upload some data to the first Blob service
3. Using Data Factory copy data to the second storage service's container



The screenshot displays the Microsoft Azure portal interface. The top navigation bar includes the 'Microsoft Azure' logo, an 'Upgrade' button, and a search bar. The main content area is titled 'Storage accounts' and shows a list of two storage accounts. The table below details the accounts:

Name	Type	Kind	Resource group	Location	Subscription
storageaccount2jan	Storage account	StorageV2	rg-3	Central India	Free Trial
storageexplorer	Storage account	StorageV2	rg-3	Central India	Free Trial

The interface also includes filters for 'Subscription equals all', 'Resource group equals all', and 'Location equals all'. The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 12:44 PM on 30-01-2024.

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The image displays two screenshots of the Microsoft Azure portal interface. The top screenshot shows the 'azcontainer' storage account overview, and the bottom screenshot shows the 'datafactory76542' Data Factory overview.

Top Screenshot: azcontainer Storage Account Overview

The top screenshot shows the 'azcontainer' storage account overview in the Microsoft Azure portal. The page displays the authentication method (Access key), location (azcontainer), and a table of blobs. The table includes columns for Name, Modified, Access tier, Archive status, Blob type, Size, and Lease state.

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
demo.mp4	1/30/2024, 12:44:25 PM	Hot (Inferred)		Block blob	1.01 MiB	Available
TCS_Customized AWS DevOps Training Attendance_29th January 24.xlsx	1/30/2024, 12:44:25 PM	Hot (Inferred)		Block blob	14.44 KB	Available
WhatsApp Image 2024-01-29 at 3.54.30 PM.jpeg	1/30/2024, 12:44:25 PM	Hot (Inferred)		Block blob	150.57 KiB	Available

Bottom Screenshot: datafactory76542 Data Factory Overview

The bottom screenshot shows the 'datafactory76542' Data Factory overview in the Microsoft Azure portal. The page displays the 'Ingest' section, which includes a 'Copy data at scale once or on a schedule' option. The 'Orchestrate' section includes a 'Code-free data pipelines' option. The 'Transform data' section includes a 'Transform your data using data flows' option. The 'Configure SSIS' section includes a 'Manage & run your SSIS packages in the cloud' option. The 'Recent resources' section shows 'No items to show'.

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The screenshot displays the Microsoft Azure Data Factory portal interface. The top navigation bar shows the user is logged in as 'azudek@outlook.com'. The main content area is divided into two sections: 'Linked services' and 'Copy Data tool'.

Linked services section:

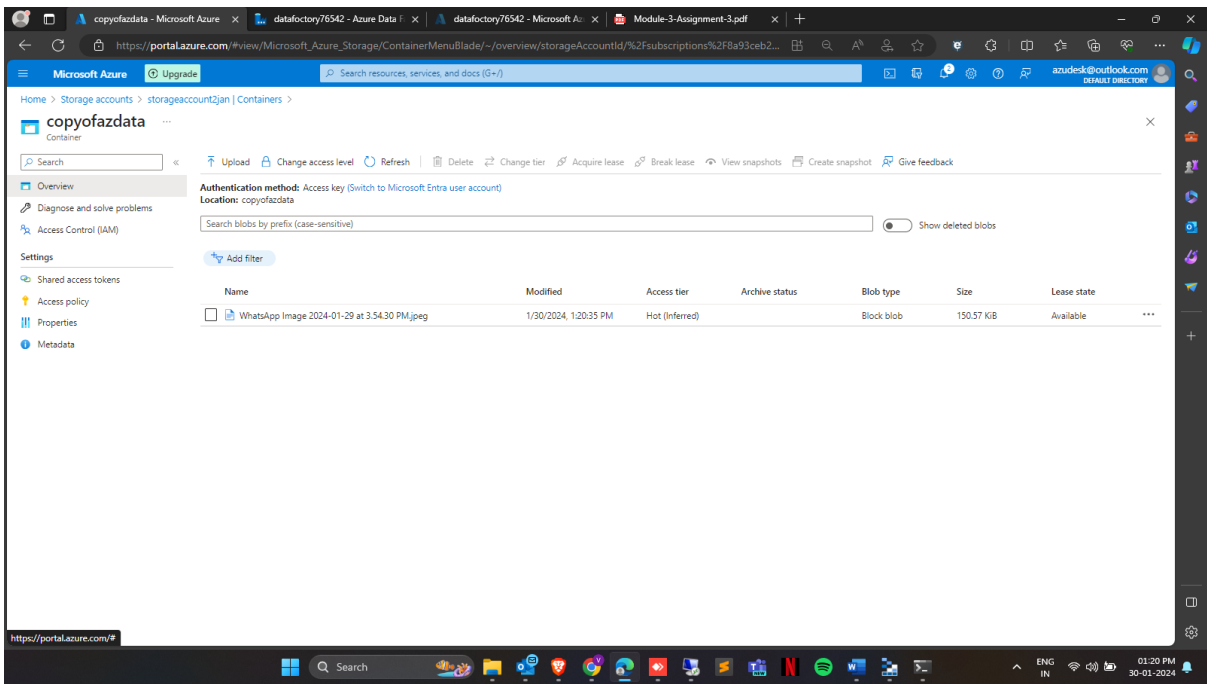
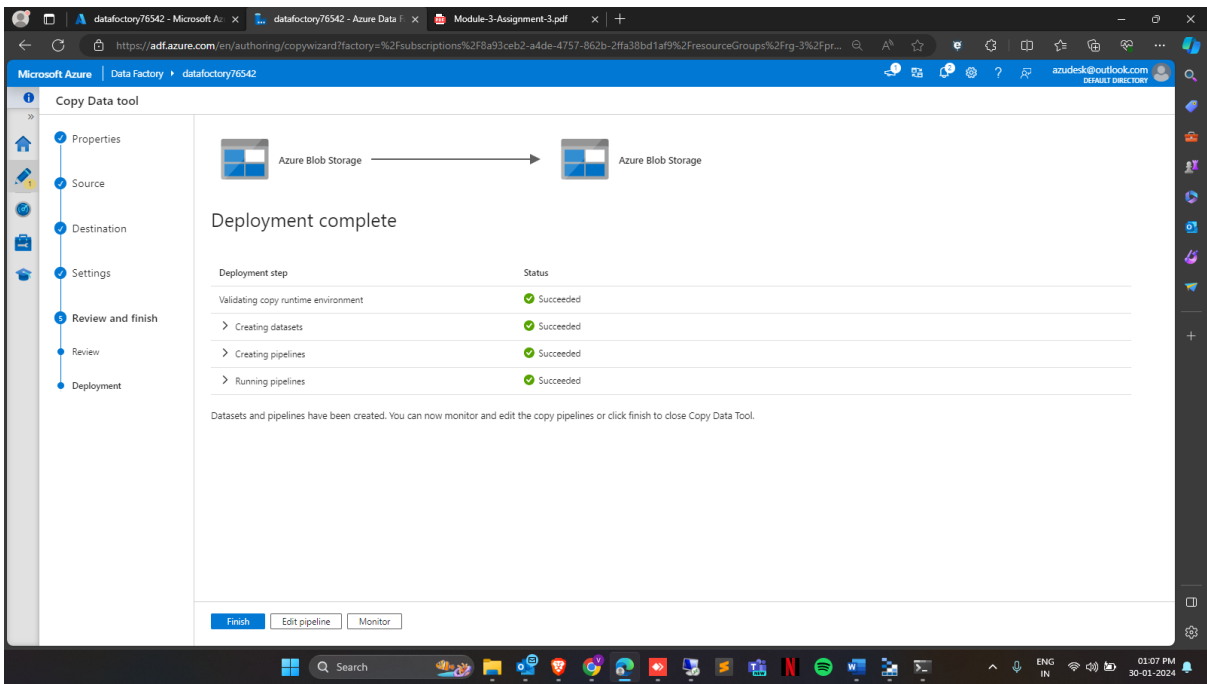
- A notification banner at the top states: "Successfully created. Successfully created AzureBlobStorage2 (Linked service)."
- The 'Linked services' tab is selected in the left sidebar.
- The main area shows a table of linked services:

Name	Type	Related	Annotations
AzureBlobStorage1	Azure Blob Storage	0	
AzureBlobStorage2	Azure Blob Storage	0	

Copy Data tool section:

- The 'Copy Data tool' tab is selected in the left sidebar.
- The main area shows the configuration for a pipeline to copy data from Azure Blob Storage to Azure Blob Storage.
- The 'Summary' section provides an overview of the pipeline.
- The 'Properties' section shows the task name 'CopyPipeline_snj' and the task description.
- The 'Source' section shows the connection name 'AzureBlobStorage1', dataset name 'SourceDataset_snj', file name 'WhatsApp Image 2024-01-29 at 3:54:30 PM.jpeg', and container 'azcontainer'.
- The 'Destination' section shows the connection name 'AzureBlobStorage2', dataset name 'DestinationDataset_snj', and container 'azcontainer'.
- The 'Copy settings' section shows the timeout '0:12:00:00', retry '0', retry interval '30', secure output 'false', and secure input 'false'.

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Module 3: Assignment – 4

Tasks To Be Performed:

1. Use the same storage accounts from previous assignment
2. Use AzCopy utility to copy data from one storage container to another

Used the previous assignment storage accounts.

```
PowerShell
Elapsed Time (Minutes): 0.0334
Number of File Transfers: 1
Number of Folder Property Transfers: 0
Total Number of Transfers: 1
Number of Transfers Completed: 0
Number of Transfers Failed: 1
Number of Transfers Skipped: 0
TotalBytesTransferred: 0
Final Job Status: Cancelled

PS /home/mani>
PS /home/mani>
PS /home/mani>
PS /home/mani> azcopy copy "https://storageexplorer.blob.core.windows.net/azcontainer/demo.mp4?sv=2022-11-02&ss=b&srt=co&sp=wdl&ac=lytf&se=2024-01-30T17:02:02Z&st=2024-01-30T09:02:02Z&sp=ht&sig=4kQF4kQZB13WgYmfnzrnT5S110D75.f4d2BkVcc9G9493D" "https://storageaccount2jan.blob.core.windows.net/copyofazdata/demo.mp4?sv=2022-11-02&ss=b&srt=co&sp=wdl&ac=lytf&se=2024-01-30T17:04:59Z&st=2024-01-30T09:04:59Z&sp=ht&sig=Vuu2d70Vt554Kf9452F512Cw089Aucb6L6rkdz11fB5x3D"
INFO: Scanning...
INFO: Any empty folders will not be processed, because source and/or destination doesn't have full folder support

Job ed6c6ae4-781e-bb4a-6cb2-3092ef684444 has started
Log file is located at: /home/mani/.azcopy/ed6c6ae4-781e-bb4a-6cb2-3092ef684444.log

INFO: azcopy: A newer version 10.23.0 is available to download

100.0 %, 1 Done, 0 Failed, 0 Pending, 0 Skipped, 1 Total, 2-sec Throughput (Mb/s): 4.1961

Job ed6c6ae4-781e-bb4a-6cb2-3092ef684444 summary
Elapsed Time (Minutes): 0.0335
Number of File Transfers: 1
Number of Folder Property Transfers: 0
Total Number of Transfers: 1
Number of Transfers Completed: 1
Number of Transfers Failed: 0
Number of Transfers Skipped: 0
TotalBytesTransferred: 1055736
Final Job Status: Completed

PS /home/mani>
```

