**File share**

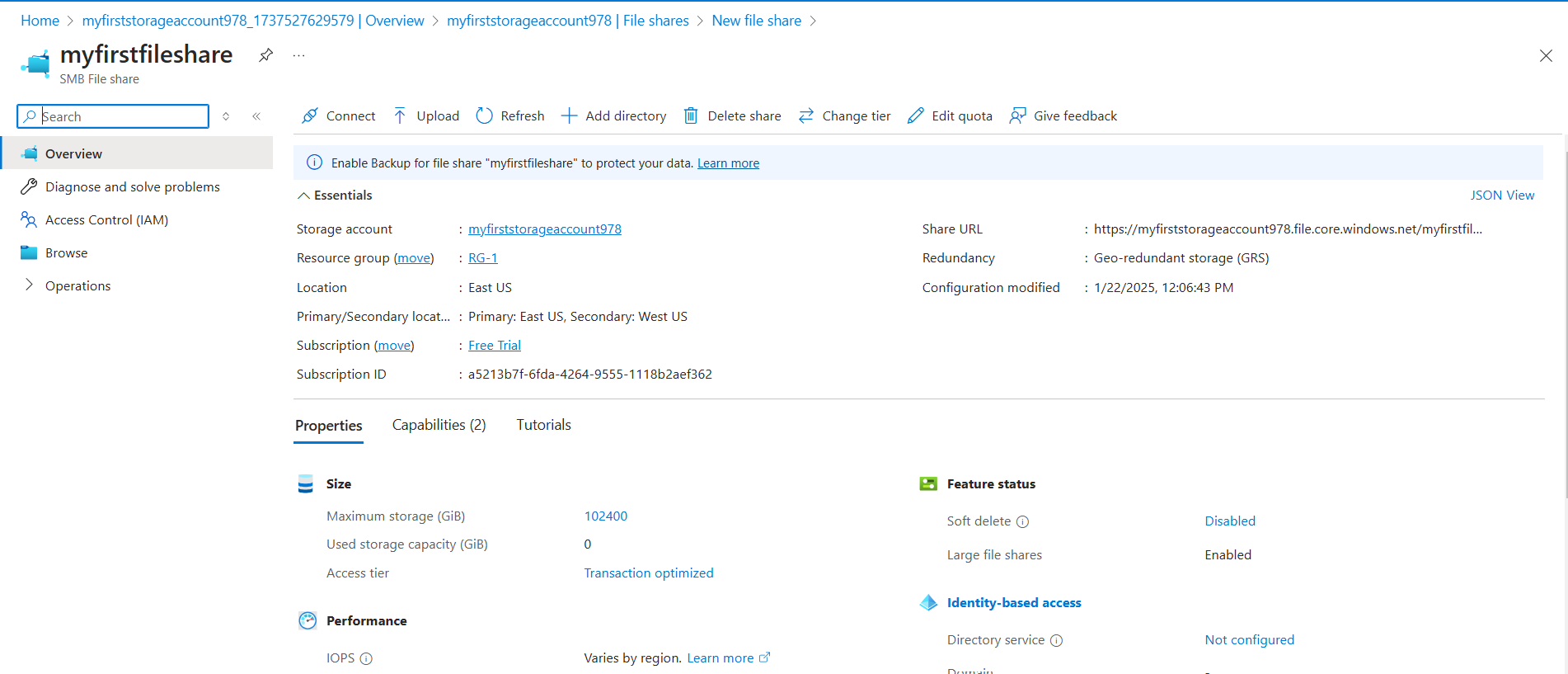
**Azure File Share** is a cloud-based file storage service that provides shared access to files across on-premises, cloud, and edge environments.

**Key Features:**

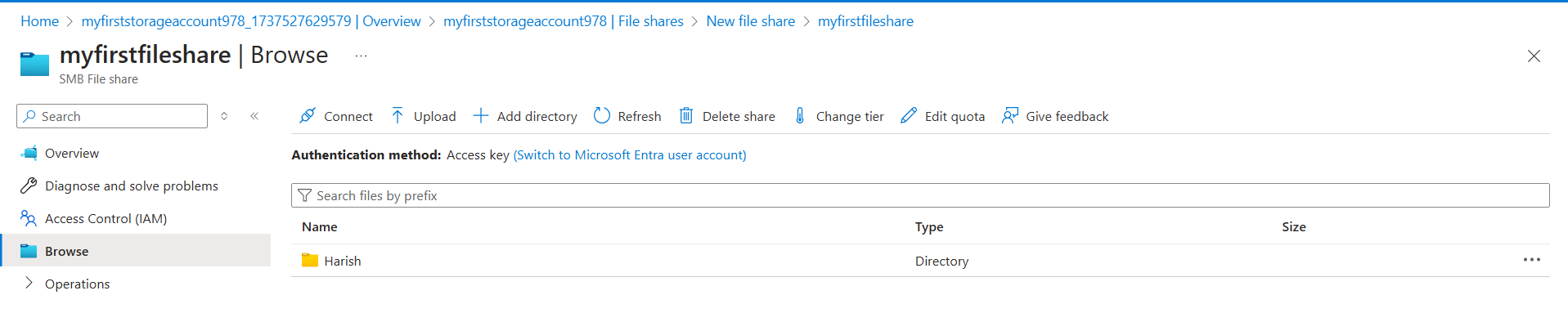
* **Simplified Management:** No need to manage physical servers, operating systems, or storage hardware. Azure handles all the underlying infrastructure.
* **SMB and NFS Protocols:** Supports both SMB and NFS protocols, enabling compatibility with a wide range of operating systems and applications.
* **File Sync:** Synchronizes files between on-premises servers and Azure File Shares, ensuring data consistency across locations.
* **Geo-Replication:** Replicates data across multiple regions for disaster recovery and business continuity.
* **Integration with Azure Ecosystem:** Seamlessly integrates with other Azure services, such as Azure Virtual Machines, Azure Kubernetes Service, and Azure Functions.
* **Security:** Supports encryption at rest and in transit, access controls, and network security groups.
* **Scalability:** Easily scale storage capacity and performance on demand.
* **Global Availability:** Access files from anywhere in the world with low latency.
* Azure file share supports lift and shift scenario it enables us to move or migrate over data from on premise to cloud and vice versa.
* Azure file share provides both classic and hybrid lift and shift scenario’s.
* **Classic lift and shift:** Here both the application and its data are moved to Azure.
* **Hybrid lift and shift:** Here only the application data is moved to Azure Files, and the application continues to run on-premises.
* It is Integration with Azure Active Directory (Azure AD) for security & authentication.
* Maximum capacity of file share is 100TB.
* Maximum capacity of file storage is 4.75TB.
* By default soft delete & default share level permissions are **disabled.**
* It provides centralized storage to all the servers or machines (mainly used in case of migrating on-premises machines to cloud).

**Creating of File Share and connecting it to the Windows VM and Linux VM.**

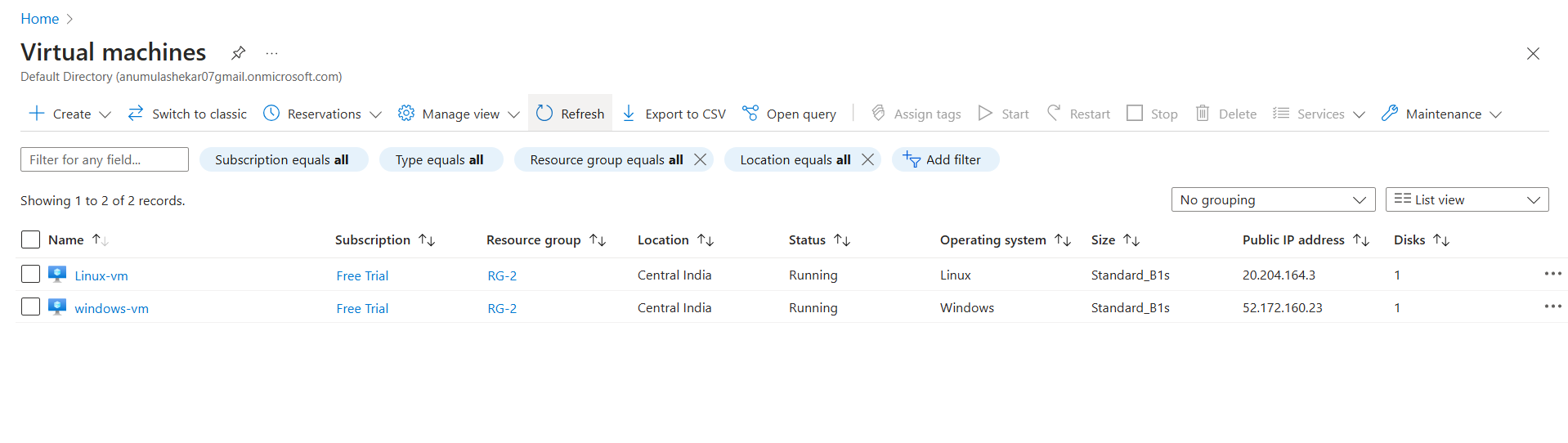
**Step1:** Create the File share by disabling Backup (for demo view).



**Step2:** Now add a directory (folder) to the file share.

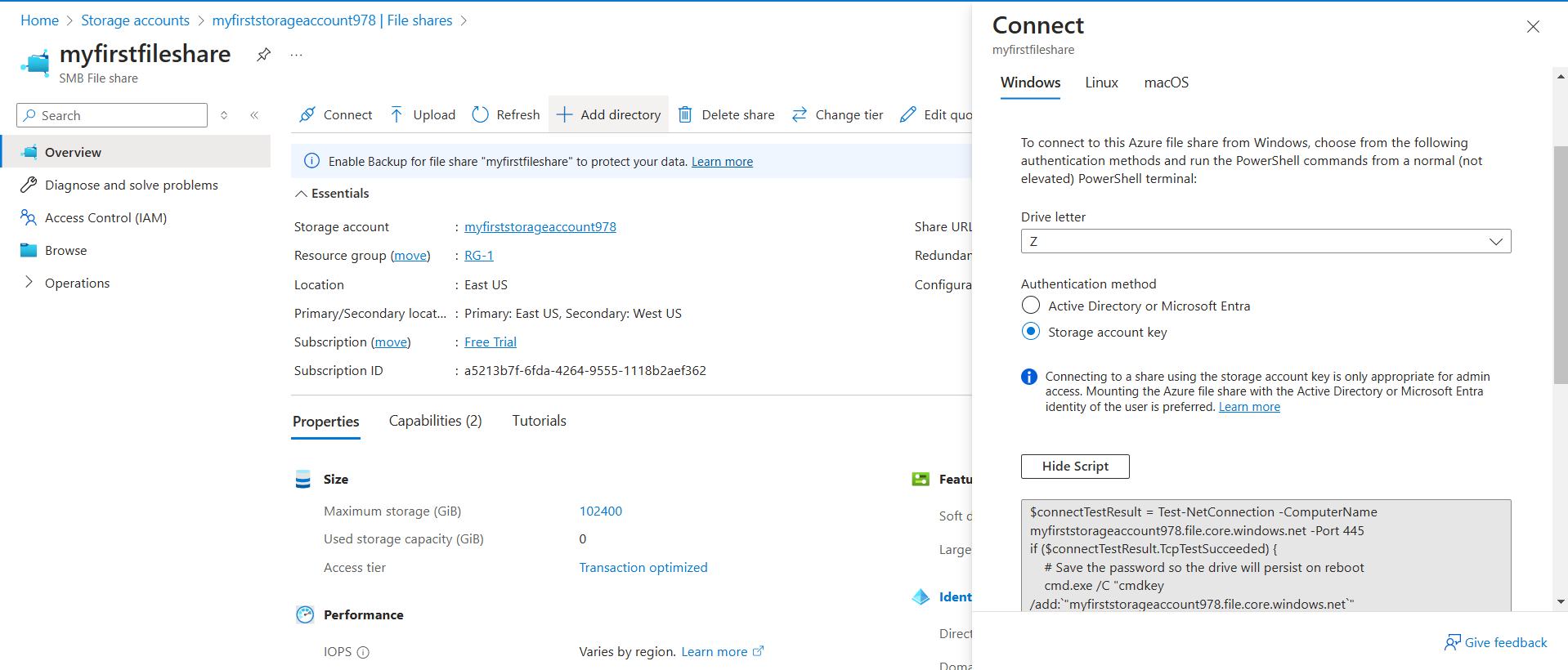


**Step3:** Create both Windows and Linux VM in same resource group.



**Step4:** Connecting of File share with the Windows VM.

Go to🡪File Share🡪connect🡪windows🡪copy the Hide Script and past it in the cmd of Windows VM🡪press Enter.



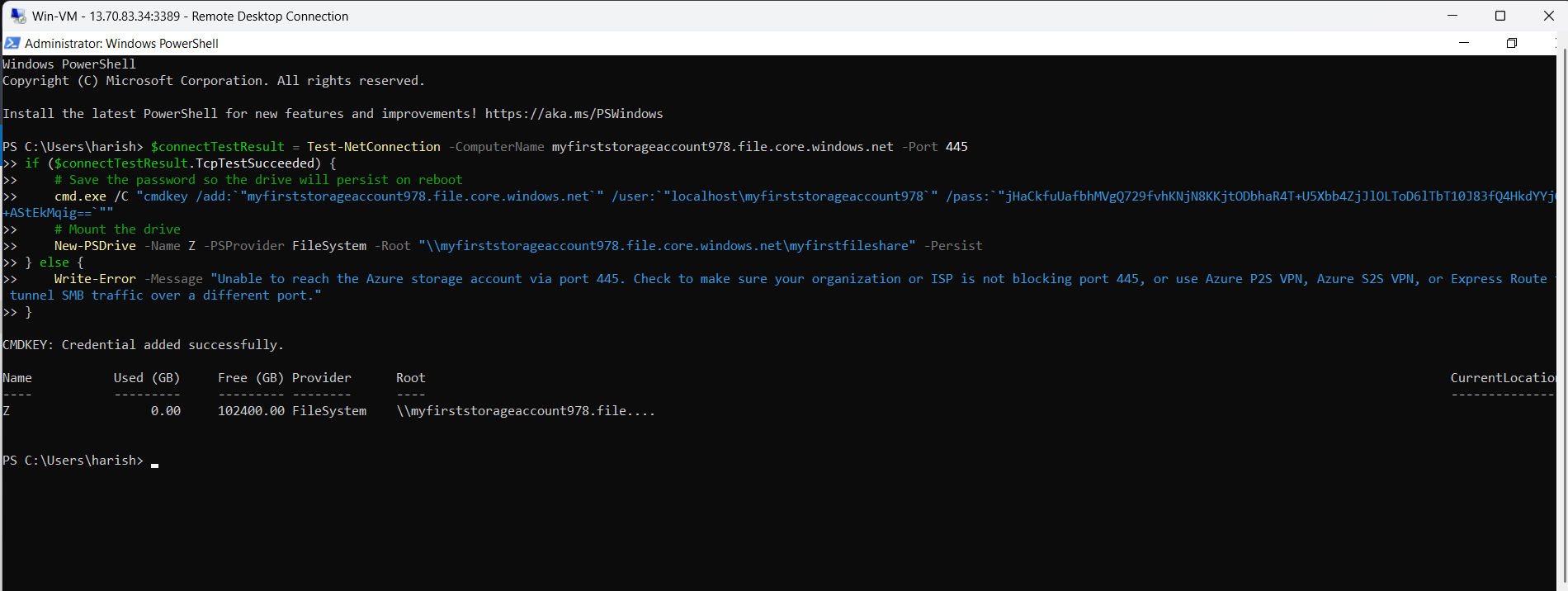
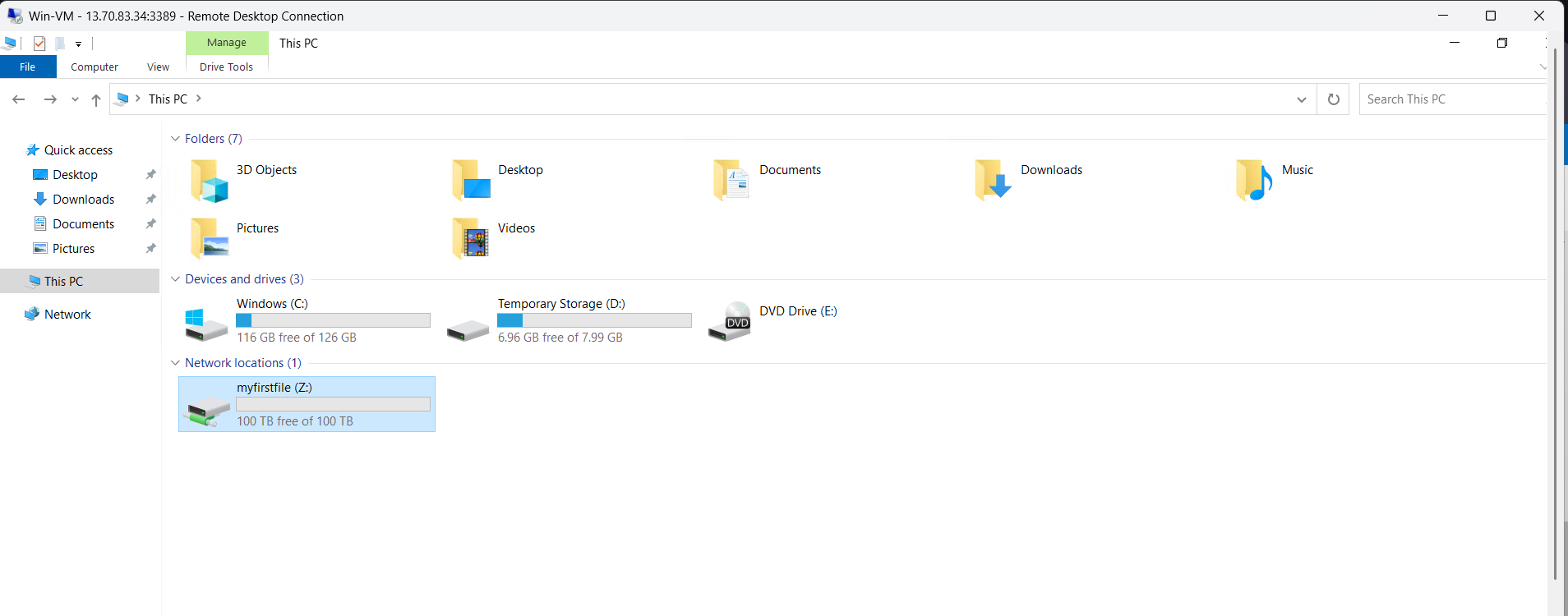


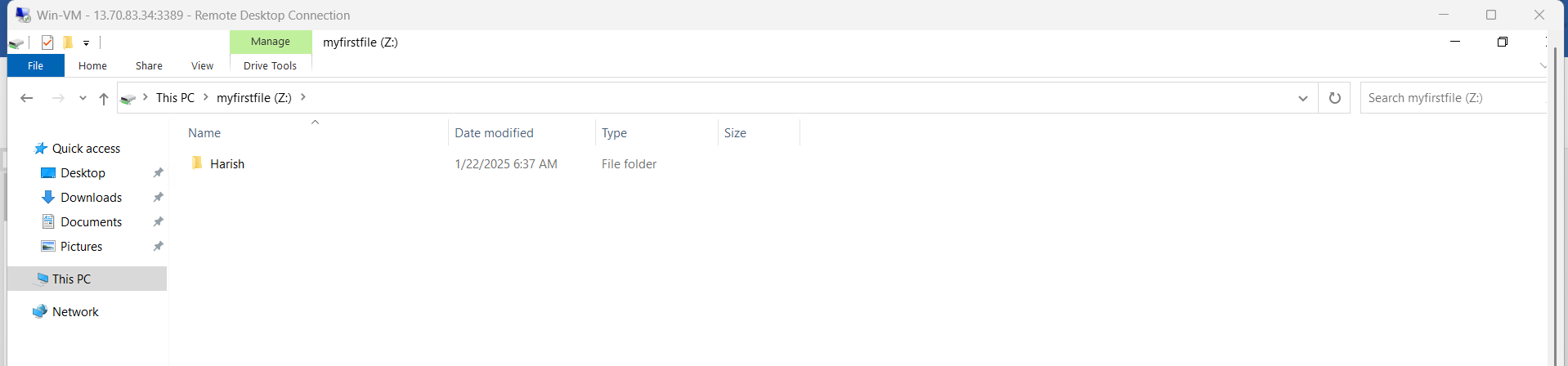
Fig: pasting of Hide Script in the CMD of windows VM.

**Note:** The file share can be connected to the windows VM using “port-445”

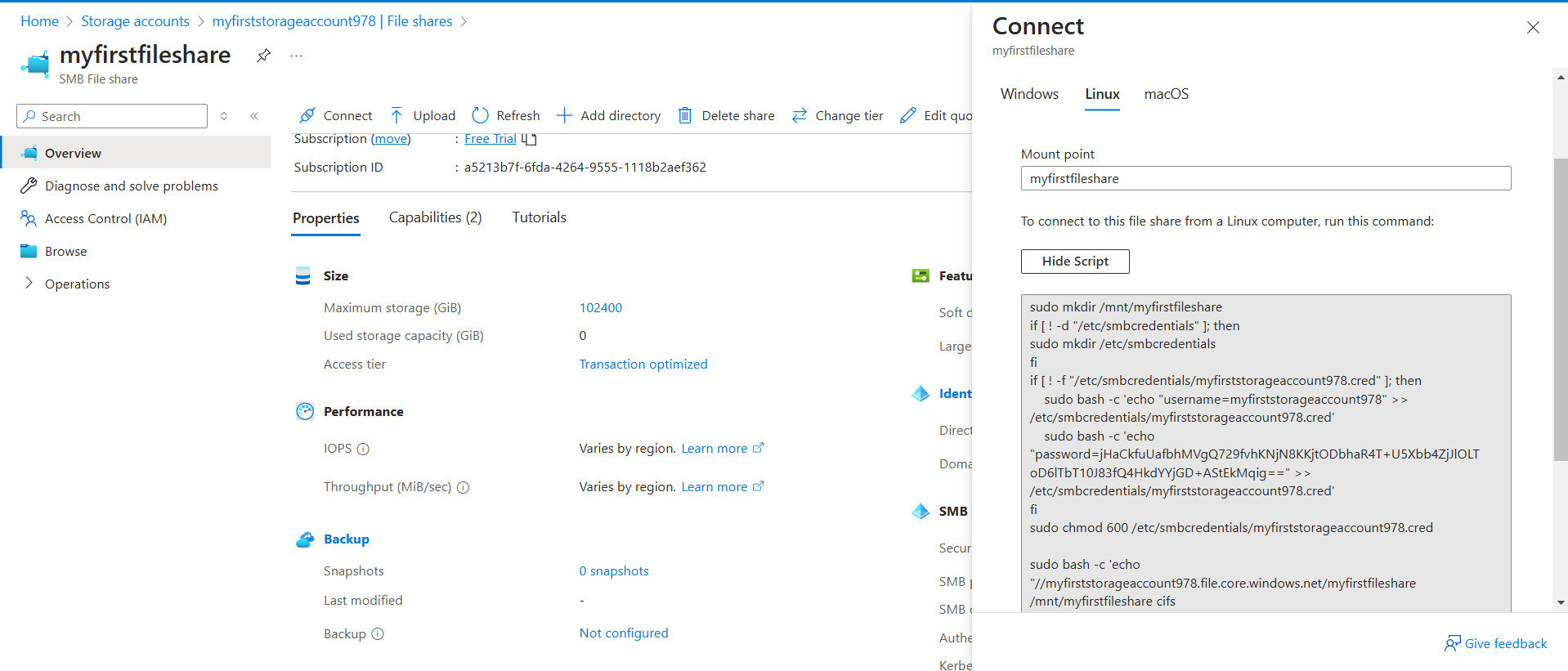
Then the File Share is added to Windows VM as a Z-drive as shown in below figure.

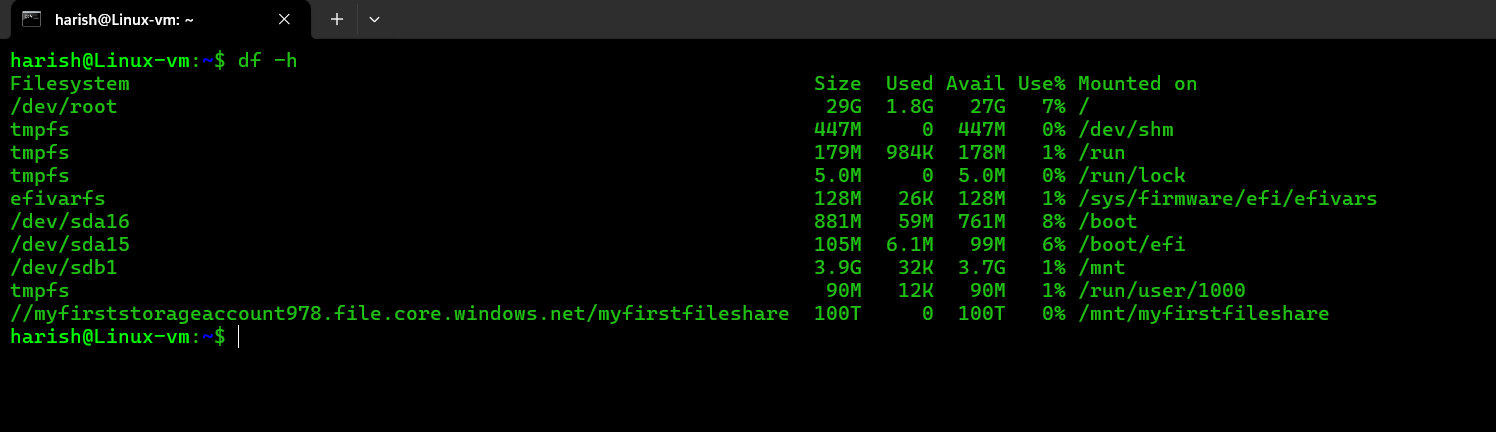


We can create or upload the files, documents from over local machine as well as from cloud.



**Step5:** Now connect the File Share with the Linux VM.

Go to🡪file share🡪connect🡪 select Linux OS🡪 copy the Hide Script and past in the Linux cli and press enter.



The file share (myfirstfileshare) is added to the Linux VM as shown above figure.

**Queue & Table Storage**

We can connect this Queue and Tables by using the URL’s.

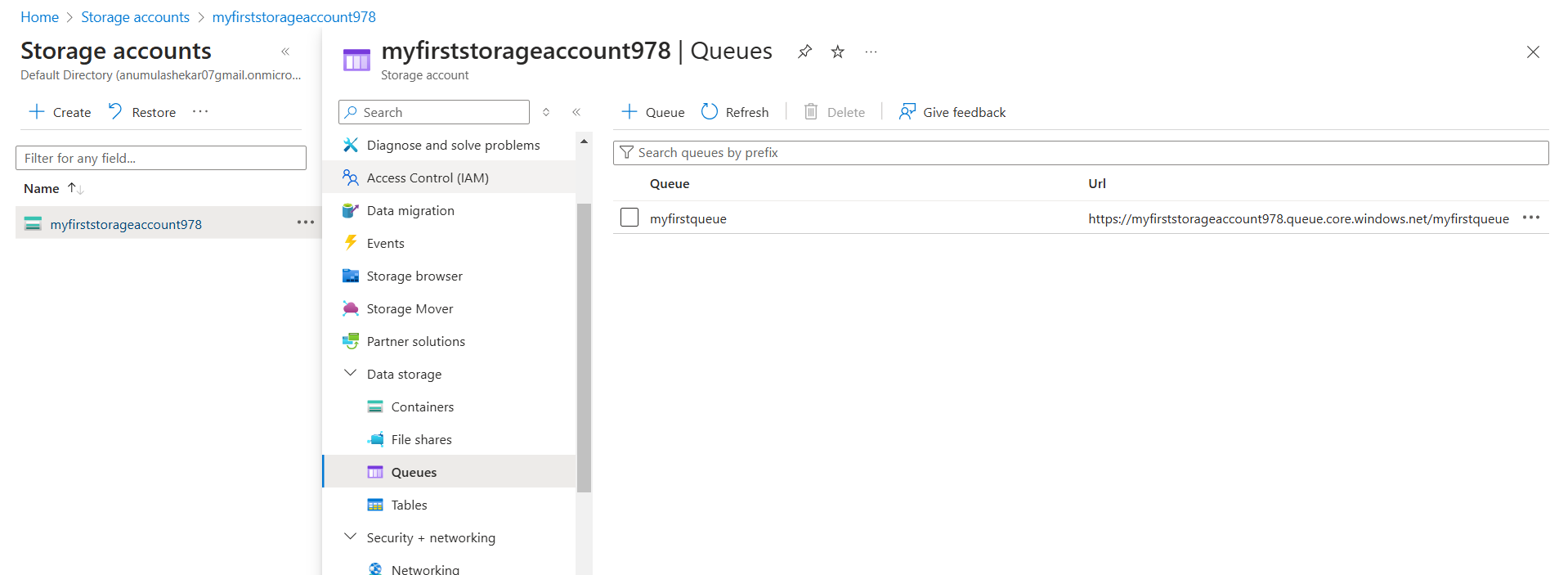


Fig: Queue storage with URL

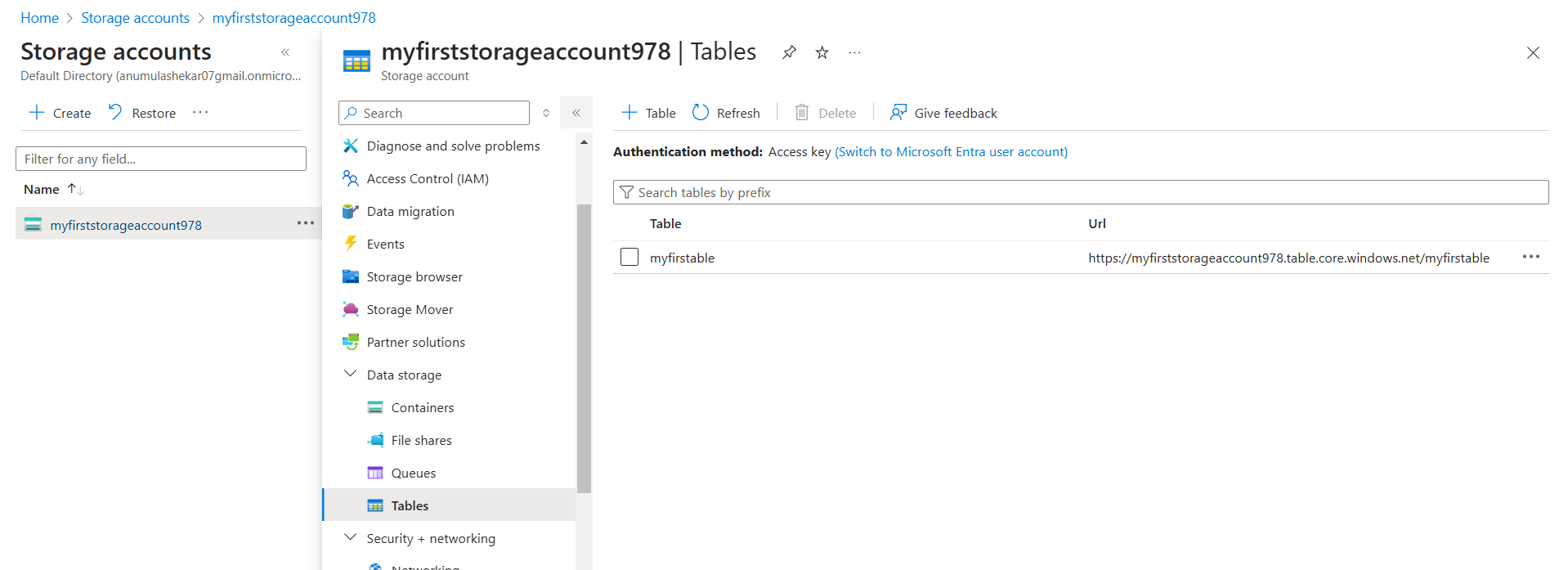


Fig: Table storage with URL.