**ASSIGNMENT DATE-03-01-2024**

**Creating Data Lake Storage Gen 2:**

Creating an Azure Data Lake Storage Gen2 involves several steps. Below is a step-by-step guide to help you create a Data Lake Storage Gen2 in Azure:

**1. Sign in to the Azure Portal:**

* Open your web browser and navigate to the [Azure Portal](https://portal.azure.com/).
* Sign in with your Azure account.

**2. Create a new Storage Account:**

* In the Azure Portal, click on "Create a resource" in the left-hand menu.
* Search for "Storage account" and select "Storage account - blob, file, table, queue" from the results.
* Click the "Create" button.

**3. Fill in the Storage Account details:**

* Provide a unique name for your Storage Account.
* Choose the deployment model (Resource Manager or Classic).
* Select your preferred performance (Standard or Premium).
* Choose the account kind as "StorageV2 (general purpose v2)".
* Choose the replication option based on your redundancy needs.
* Set the storage account access to "StorageV2 (general purpose v2)".

**4. Configure advanced settings:**

* You can configure additional settings like Virtual Network, Data Lake Storage, etc., based on your requirements. For Data Lake Storage Gen2, you might want to enable Hierarchical Namespace for improved data organization.

**5. Review and create:**

* Review your settings to ensure they are correct.
* Click on the "Review + create" button.

**6. Review and create:**

* After the validation is passed, click on the "Create" button to deploy your Storage Account.

**7. Wait for deployment:**

* The deployment process may take a few minutes. You can monitor the progress on the Azure Portal.

**8. Access your Storage Account:**

* Once deployment is complete, navigate to your Storage Account in the Azure Portal.

**9. Set up Azure Data Lake Storage Gen2:**

* Inside your Storage Account, you'll see different services. Click on "Data + Storage" and then select "Data Lake Storage Gen2."
* Click on the "Containers" tab and create a new container. Containers are used to organize and store data within the Data Lake Storage Gen2.

**10. Access and manage data:**

* Once the container is created, you can upload, download, and manage data within the Data Lake Storage Gen2.

