# Hands-on demo Azure Data Lake Storage Gen2

## Create a standard Storage Account

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| Navigate to the home screen on the Azure Portal (<https://portal.azure.com>) |  |
| Click on **Create a resource**. |  |
| On the New Azure Resource screen search for **Storage account**. |  |
| Click on the **Storage account** option. |  |
| Click **Create**. |  |
| Select the proper subscription and resource group.  Think of a good name for your storage account. And fill it in.  Select the proper location.  For this demo, **standard** performance is perfect and cheapest.  For Account Kind, make sure **StorageV2 (general purpose v2)** is selected.  For replication select **Locally-redundant (LRS)**  Access tier (default) = **Hot** |  |
| Click **Review + Create** and then **Create**. |  |
| After the Storage Account is created, click on **Go to resource**. |  |

## Create an Azure Files file share and upload a demo file

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| On the **Overview** tab of the storage account click on the **Files** option. |  |
| Click on **+ File share** |  |
| In the File share window, provide a name for the file share. Leave the Quota empty.  Click on **Create**. |  |
| Navigate to the **Settings – Access Keys** tab. |  |
| Copy your Storage account name and key1 to Notepad or some other plain text editor. |  |
| Open a Windows Explorer instance. Select **This PC** in the left menu. |  |
| And click on **Computer - Map network drive** in the ribbon. |  |
| Select the a nice drive letter.  In the folder box enter the following:  \\{yourStorageAccountName}.file.core.windows.net\{yourUploadFolder}  Check **Connect using different credentials.** |  |
| In the Enter network credentials dialog select **More choices** and then **Use a different account**. |  |
| For log in name use the storage account name and for the password use the account key you copied to Notepad earlier.  Click **Ok**. |  |
| Your newly create file share will open in a new Windows Explorer window.  Try to copy the file Day1\03 Hands-on Demo Azure Data Lake Storage Gen2\master.txt to the fileshare.  And then check in the Azure Portal if the file is also available there. |  |

## Create a blobcontainer

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| Navigate back to the overview tab of your Storage account. |  |
| Select the **Blobs** service. |  |
| Click on **+ Container**.  Provide a name for your container and leave the **Public access level** at **Private**.  Click **Ok**. |  |
| Click on the Container you just created and then click on **Upload**. |  |
| In the **Upload blob** dialog select the master.txt file from the course resources and click **Upload**. |  |
| Other options for uploading or downloading data to and from azure storage are:   * Azure Storage Explorer * AzCopy * Azure Storage REST APIs * PowerShell |  |

## Create an Azure Data Lake Storage Gen2 Storage Account

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| Navigate back to your Azure Portal home page. |  |
| Click on **Create a resource**. |  |
| Search for **Storage Account**. |  |
| Select the **Storage Account** option from the search results. |  |
| Click on **Create**. |  |
| On the **Basics** tab provide the following information:  Subscription  Resource Group  Storage account name  Location  Performance (standard suffices)  Account kind (StorageV2)  Replication (LRS)  Access tier (Hot)  Then click on **Next : Advanced**. |  |
| On the **Advanced** tab enable the **Hierarchical namespace** option. |  |
| Click **Review + Create**. |  |
| Click **Create**. |  |
| When your deployment is complete, click on **Go to resource**. |  |
| Click on the **Data Lake Gen2 file systems** service. |  |
| Click on  **+ File system**. |  |
| Provide a name for you File system and click **Ok**. |  |