

# Exercise - Create an Azure Storage account for Azure Data Lake Storage

10 minutes

Before you can upload or transfer data into a data lake, you need to create one. Using the Azure portal, you can provision an Azure Data Lake Storage Gen2 store within minutes.

## ⓘ Note

If you don't have an Azure account or prefer not to do this exercise in your account, just read through the exercise to understand how to create a Data Lake Storage Gen2 store.

## Create a resource group

Create a new resource group to hold the data lake storage. You'll use the resource group to administer related services and applications together. A resource group will also make resource cleanup easier when you finish this module.

To create a resource group in the Azure portal, follow these steps:

1. Sign in to the [Azure portal](#) .
2. On the **Home** page, under **Azure services**, select **Create a resource**.
3. In the search box, enter **Resource group** and press . The **Resource group** pane appears.
4. Select **Create** to add a new resource group.
5. On the **Basics** tab, enter the following values for each setting.

Setting	Value
Project details	
Subscription	Subscription you choose to work in.

Setting	Value
Resource group	Enter <i>mslearn-datalake-test</i>
Resource details	
Region	Select a location for the resource group. Typically, you'll want a location that's close to you or to the data you'll work with.

[Home](#) > [Create a resource](#) > [Resource group](#) >

## Create a resource group ... ×

**Basics** Tags Review + create

**Resource group** - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#) ↗

**Project details**

Subscription \* ⓘ Learn Content Maintenance and Testing (AIRS) ▼

Resource group \* ⓘ mslearn-datalake-test-1 ✓

**Resource details**

Region \* ⓘ (US) East US ▼

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[Review + create](#) [< Previous](#) [Next : Tags >](#)

6. Select **Review + create**.
7. After validation passes, select **Create**.
8. After the resource group is created, select **Go to resource group**. Optionally, from the *Notifications* icon in the portal menu (title bar), select **Pin to dashboard** to make it easy to find later.

## Create a Data Lake Storage Gen2 account

You'll create a Data Lake Storage Gen2 account the same way you create an Azure Blob store, but with one different setting.

1. On the **Resource Group** page, select **Create resources**. The **Create a resource** page appears.
2. In the resource menu, select **Storage**, and then search for **Storage account**, and press . The **Storage account** pane appears.
3. Select **Create**. The **Create a storage account** pane appears.
4. On the **Basics** tab, enter the following values for each setting.

Setting	Value
<b>Project details</b>	
Subscription	Same subscription as the <i>Data Lake Storage Gen2 account</i> you just created.
Resource group	From the dropdown list, select <i>mslearn-datalake-test</i>
<b>Instance details</b>	
Storage account name	Enter a unique name for your storage account. The name must be unique across all of Azure. You might have to try a few variations to find a unique name. Try using the prefix <i>dlakedata</i> with some numbers. A green check mark indicates you've entered a valid name.
Region	From the dropdown list, select <i>(US) Central US</i> .

5. Accept the defaults for the reminder of the settings.

## Create a storage account ...

Basics Advanced Networking Data protection Tags Review + create

Enable infrastructure encryption ⓘ

☐

Enable blob public access ⓘ

☒

Enable storage account key access ⓘ

☒

Default to Azure Active Directory authorization in the Azure portal ⓘ

☐

Minimum TLS version ⓘ

Version 1.2



### Data Lake Storage Gen2

The Data Lake Storage Gen2 hierarchical namespace accelerates big data analytics workloads and enables file-level access control lists (ACLs). [Learn more](#)

Enable hierarchical namespace

☒

### Blob storage

Enable network file system v3 ⓘ

☐

Allow cross-tenant replication ⓘ

☐

**i** Cross-tenant replication and hierarchical namespace cannot be enabled simultaneously.

Access tier ⓘ

☒

Hot: Frequently accessed data and day-to-day usage scenarios

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< Previous

Next : Networking >

6. Select **Next : Advanced**.

7. On the **Advanced** tab, select the following value for the setting. Accept default values for all other settings.

Setting	Value
Data Lake Storage Gen2	
Enable hierarchical namespace	<i>check</i> (Enabled)

## Create a storage account

Basics **Advanced** Networking Data protection Tags Review + create

ⓘ Certain options have been disabled by default due to the combination of storage account performance, redundancy, and region.

### Security

Configure security settings that impact your storage account.

Require secure transfer for REST API operations ⓘ ☒

Enable infrastructure encryption ⓘ ☐

Enable blob public access ⓘ ☒

Enable storage account key access ⓘ ☒

Default to Azure Active Directory authorization in the Azure portal ⓘ ☐

Minimum TLS version ⓘ

### Data Lake Storage Gen2

The Data Lake Storage Gen2 hierarchical namespace accelerates big data analytics workloads and enables file-level access control lists (ACLs). [Learn more](#)

Enable hierarchical namespace ☒

### Blob storage

Enable network file system v3 ⓘ ☐

**Review + create**

< Previous

Next : Networking >

8. Select **Review + create** to create the storage account.

9. After the creation details pass validation, select **Create** to start the deployment.

After you receive a message that your deployment is complete, select **Go to resource** to confirm the storage account deployed correctly.