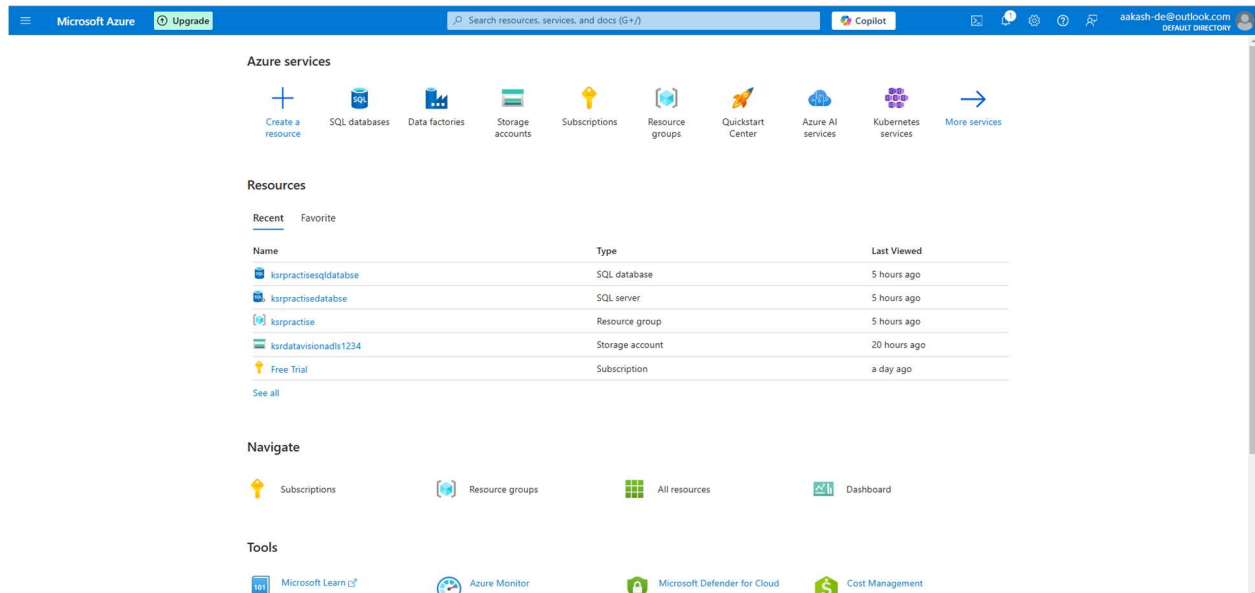


Create Resource Group

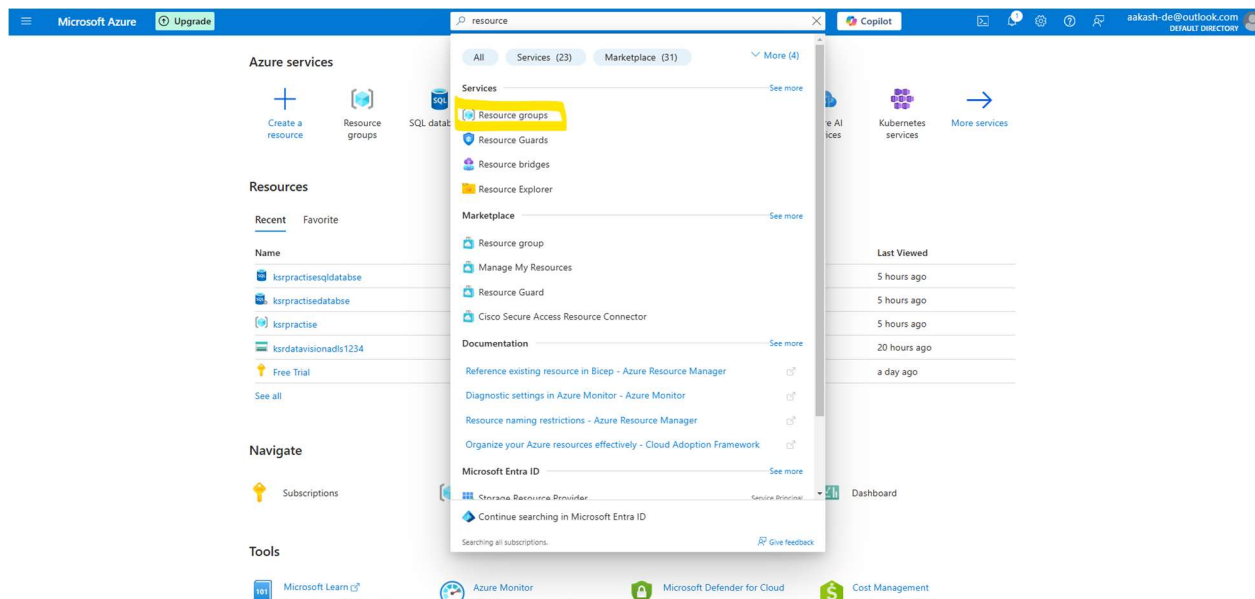
Step 1: Login to Azure Portal

Open your browser and type, <https://portal.azure.com/> , this will take you to the home page of the Azure Portal after authenticating with your user account. The home page of the portal will look like below,



Step 2. Search for Resource Group in the search bar

In the search bar at the top, type the keyword '**resource groups**' and select the correct service as shown in the screenshot below.



Create a resource group

[Home](#) > [Resource groups](#) >

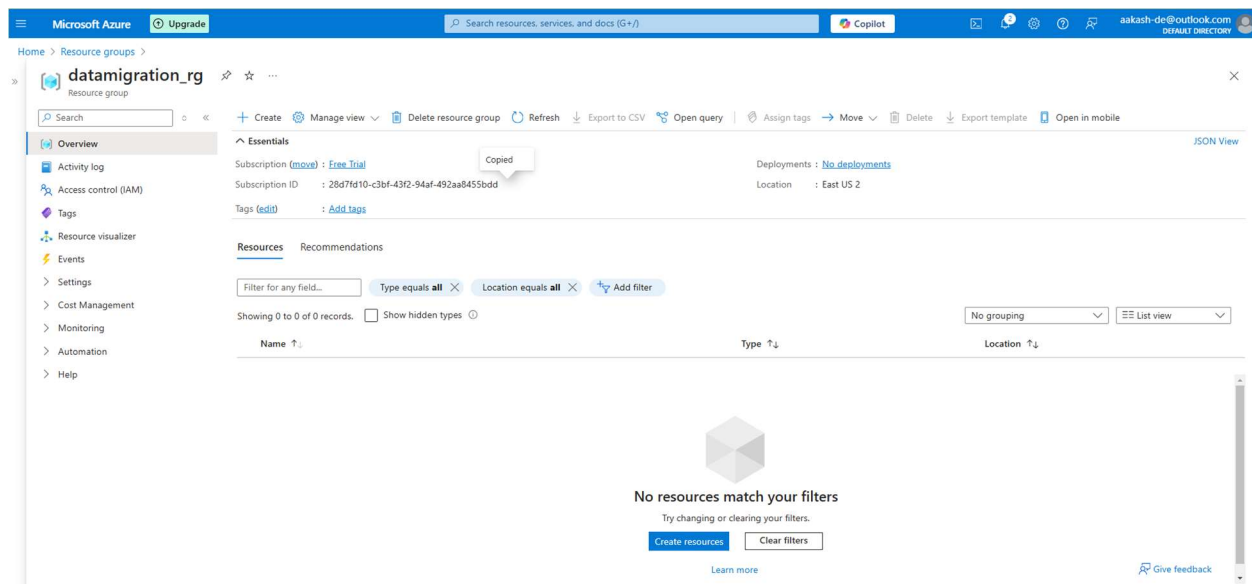
Create a resource group ...

[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](#)

Subscription * ⓘ	<input type="text" value="Free Trial"/>
Resource group name * ⓘ	<input type="text" value="datamigration_rg"/>
Region * ⓘ	<input type="text" value="(US) East US 2"/>

Review and create. After completion open the resource group.



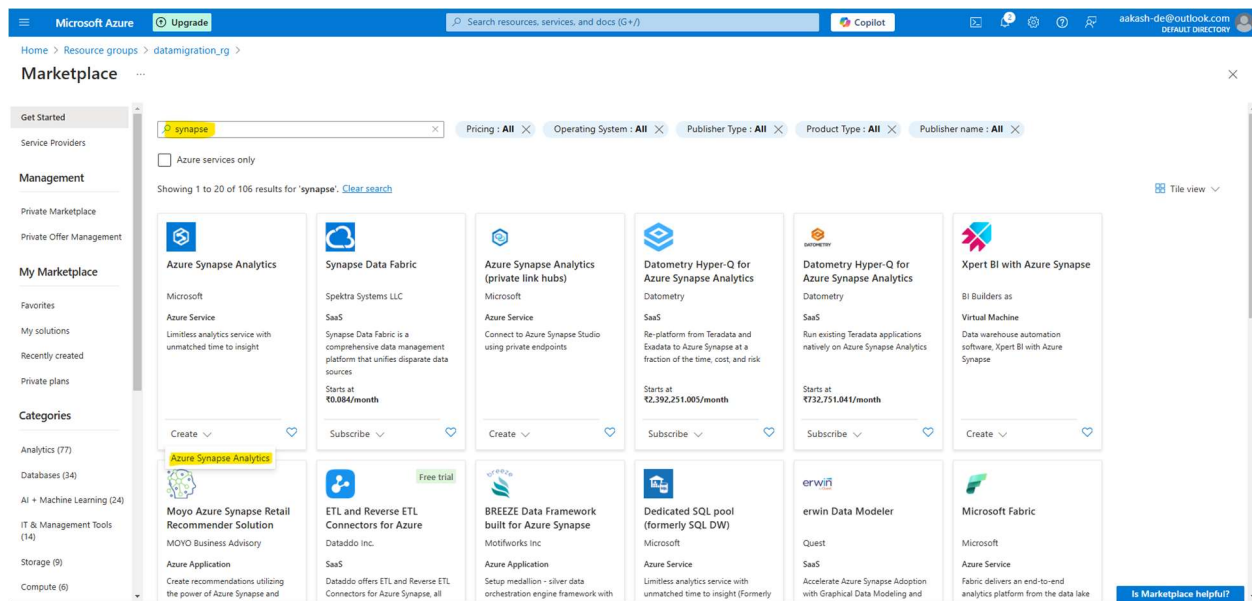
This is the resource group that you will be using in building this complete end to end project. Inside this resource group, we will be creating all the required tools used in this project. Let's see how we can create these in the next section.

Create Azure Synapse Analytics and Storage Account (DatalakeGen2)

Step 1: Choose the Create option from the Resource Group

From your resource group page, click on the create button as below, (This will open the Azure Market place, where we can create all the resources).

In the market place search box, search for "synapse" and click on the Create -> Azure Synapse Analytics option as below,



Choose your subscription and resource group (This will be automatically selected)

Ignore the Managed resource group drop down. (This will be automatically created if not specified)

In Basic Tab:

Workspoce Name: onprem2cloudmigrationworkspace

Region: East US 2

The remaining options in the Basics tab is for creating the Storage Account (DatalakeGen2)- This will be created along with the Synapse Analytics. We can either select already existing storage account or create a new one from scratch. Since we are creating everything from scratch, let's create a new storage account as below,

1. Account Name (This is the Storage Account Name)- Click on the "**Create new**" link and give it a name.

2. File System Name (This is the container name)- Click on the "**Create new**" link and give it a name as "bronze".

Workspace details

Name your workspace, select a location, and choose a primary Data Lake Storage Gen2 file system to serve as the default location for logs and job output.

Workspace name *	<input type="text" value="onprem2cloudmigrationworkspace"/>	✓
Region *	<input type="text" value="East US 2"/>	▼
Select Data Lake Storage Gen2 *	<input checked="" type="radio"/> From subscription <input type="radio"/> Manually via URL	
Account name * ⓘ	<input type="text" value="(New) adlsonprem2cloud"/>	▼
	Create new	
File system name *	<input type="text" value="(New) bronze"/>	▼
	Create new	
<input checked="" type="checkbox"/> Assign myself the Storage Blob Data Contributor role on the Data Lake Storage Gen2 account to interactively query it in the workspace.		

i We will automatically grant the workspace identity data access to the specified Data Lake Storage Gen2 account, using the [Storage Blob Data Contributor](#) role. To enable other users to use this storage account after you create your workspace, perform these tasks:

- Assign other users to the **Contributor** role on workspace
- Assign other users the appropriate [Synapse RBAC roles](#) using Synapse Studio
- Assign yourself and other users to the **Storage Blob Data Contributor** role on the storage account

[Learn more](#)

Note: Make sure the "Assign myself the Storage Blob Data Contributor role on the Data Lake Storage Gen2 account to interactively query it in the workspace." check box is **enabled**. This will make sure the Synapse Analytics have required access to the Storage account.

Security Tab:

* Basics * **Security** Networking Tags Review + create

Configure security options for your workspace.

Authentication

Choose the authentication method for access to workspace resources such as SQL pools. The authentication method can be changed later on. [Learn more](#)

Authentication method ⓘ

- ☒ Use both local and Microsoft Entra ID authentication
☐ Use only Microsoft Entra ID authentication

SQL Server admin login * ⓘ

myadmin ✓

SQL Password ⓘ

..... ✓

Confirm password

..... ✓

System assigned managed identity permission

Select to grant the workspace network access to the Data Lake Storage Gen2 account using the workspace system identity. [Learn more](#)

☐ Allow network access to Data Lake Storage Gen2 account. ⓘ

i The selected Data Lake Storage Gen2 account does not restrict network access using any network access rules, or you selected a storage account manually via URL under Basics tab. [Learn more](#)

Workspace encryption

⚠ Double encryption configuration cannot be changed after opting into using a customer-managed key at the time of

Review + create

< Previous

Next: Networking >


Networking Tab

[* Basics](#) [* Security](#) **[Networking](#)** [Tags](#) [Review + create](#)


Configure networking options for your workspace.

Managed virtual network


Choose whether to set up a dedicated Azure Synapse-managed virtual network for your workspace. [Learn more](#) 

Managed virtual network 

☐ Enable ☒ Disable

 To control public network access to your Synapse workspace, you must enable managed virtual network.


Firewall rules

 Azure Synapse Studio and other client tools will only connect to the workspace endpoints if this setting is selected. Connections from specific IP addresses or all Azure services can be allowed or disallowed after the workspace is provisioned.

Allow connections from all IP addresses to your workspace's endpoints. You can restrict these permissions to just Azure datacenter IP addresses and/or specific IP address ranges after creating the workspace.

☒ Allow connections from all IP addresses

Encrypted connections

Azure Synapse Analytics applies TLS1.2 encryption protocol for all network connections. [Learn more](#) 

Minimum TLS version

TLS 1.2 

[Review + create](#)

[< Previous](#)

[Next: Tags >](#)

No Changes to tags.

Review + Create Tab:

Product Details

Azure Synapse Analytics workspace
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Serverless SQL est. cost/TB ⓘ
415.97 INR

Terms

By clicking Create, I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see [Azure Marketplace Terms](#). ⓘ

Basics

Subscription	Free Trial
Resource group	datamigration_rg
Region	East US 2
Workspace name	(new) onprem2cloudmigrationworkspace
Data Lake Storage Gen2 account	(new) https://adlsonprem2cloud.dfs.core.windows.net
Data Lake Storage Gen2 file system	(new) bronze
Managed resource group	None

Create

< Previous

Next >

[Download a template for automation](#)

Click on create. Once deployment is completed, validate it on resource group.

Create Azure Data Factory:

Step 1: Choose the Create option from the Resource Group

From your resource group page, click on the create button as below, In the market place search box, search for "data factory" and click on the Create -> Data Factory option as below,

← → ↻ portal.azure.com/#view/Microsoft_Azure_Marketplace/MarketplaceOffersBlade/selectedMenuItemId/home/dc

Microsoft Azure Search resources, services, and docs (G+)

Home > rg-data-engineering-projects >

Marketplace

Get Started

Service Providers

Management

Private Marketplace

Private Offer Management

My Marketplace

Favorites

My solutions

Recently created

Private plans

Categories

Analytics (44)


AI + Machine Learning (23)

data factory

☐ Azure services only

Pricing : All × Operating System :

Showing 1 to 20 of 88 results for 'data factory'. [Clear search](#)



Data Factory

Microsoft


Azure Service

Hybrid data integration service that simplifies ETL at scale

Create ▾

Data Factory

♥



Free trial

USB4SAP add-on to Azure Data Factory for SAP


Ecoservity Inc

SaaS

With USB4SAP+Azure Data Factory access SAP raw data eg tables with CDC and modeled info

Subscribe ▾

♥



Modern Data Mart


Ceteris AG

Azure Application


Small Data-Warehouse Architecture integrating a single source using Azure Data Factory

Create ▾


♥



Cluedin



Data3



Data3

Choose your subscription and resource group (This will be automatically selected)

Fill in the Name, region and version as below.

[Home](#) > [Data factories](#) >

Create Data Factory ...

Basics

[Git configuration](#)

[Networking](#)

[Advanced](#)

[Tags](#)

[Review + create](#)

One-click to create data factory with sample pipeline and datasets. [Try it](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Free Trial



Resource group * ⓘ

datamigration_rg

[Create new](#)

Instance details

Name * ⓘ

onprem2cloudadf

Region * ⓘ

East US 2

Version * ⓘ

V2

Review and create.

[Home](#) >

Microsoft.DataFactory-20250204173152 | Overview [✕](#) [...](#)

Deployment

Search [Delete](#) [Cancel](#) [Redeploy](#) [Download](#) [Refresh](#)

Overview

[Inputs](#)

[Outputs](#)

[Template](#)

Your deployment is complete

Deployment name : Microsoft.DataFactory-20250204173152
Subscription : [Free Trial](#)
Resource group : [datamigration_rg](#)

Start time : 2/4/2025, 5:32:56 PM
Correlation ID : c53088ef-c6d8-43d4-9e82-2833a87dd61f

[Deployment details](#)

[Next steps](#)

[Go to resource](#)

Give feedback

[Tell us about your experience with deployment](#)

Create Azure Databricks:

Step 1: Choose the Create option from the Resource Group

From your resource group page, click on the create button as below,

In the market place search box, search for "databricks" and click on the Create
-> Azure Databricks option as below,

Step 2: Fill in the details for creating Azure Databricks

Create an Azure Databricks workspace ...

Basics Networking Encryption Security & compliance Tags Review + create

Project Details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *	Free Trial
Resource group *	datamigration_rg
	Create new

Instance Details

Workspace name *	onprem2clouddatabricks
Region *	East US 2
Pricing Tier *	Premium (+ Role-based access controls)
<div><p>i We selected the recommended pricing tier for your workspace. You can change the tier based on your needs.</p></div>	
Managed Resource Group name	Enter name for managed resource group

Review + create

< Previous

Next : Networking >

Basics **Networking** Encryption Security & compliance Tags Review + create

Deploy Azure Databricks workspace with Secure Cluster Connectivity (No Public IP)
☐ Yes ☒ No

Deploy Azure Databricks workspace in your own Virtual Network (VNet)
☐ Yes ☒ No

Leave other option to default and click on Review and Create.

Create Azure Key Vault:

Step 1: Choose the Create option from the Resource Group

From your resource group page, click on the create button as below,

In the market place search box, search for "key vault" and click on the Create -
> Key Vault option

Create a key vault ...

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *	Free Trial
Resource group *	datamigration_rg

[Create new](#)

Instance details

Key vault name * ⓘ	onprem2cloudkeyvault
Region *	East US 2
Pricing tier * ⓘ	Standard

Recovery options

Soft delete protection will automatically be enabled on this key vault. This feature allows you to recover or permanently delete a key vault and secrets for the duration of the retention period. This protection applies to the key vault and the secrets stored within the key vault.

To enforce a mandatory retention period and prevent the permanent deletion of key vaults or secrets prior to the retention period elapsing, you can turn on purge protection. When purge protection is enabled, secrets cannot be purged by users or by Microsoft.

Soft-delete ⓘ	Enabled
Days to retain deleted vaults * ⓘ	90
Purge protection ⓘ	<p><input checked="" type="radio"/> Disable purge protection (allow key vault and objects to be purged during retention period)</p> <p><input type="radio"/> Enable purge protection (enforce a mandatory retention period for deleted vaults and vault objects)</p>

[Previous](#)[Next](#)[Review + create](#)

Access Configuration Tab

:

Configure the options as per the below screenshot.

Create a key vault ...

Basics Access configuration Networking Tags Review + create

Configure data plane access for this key vault

To access a key vault in data plane, all callers (users or applications) must have proper authentication and authorization. Authentication establishes the identity of the caller. Authorization determine

Permission model

Grant data plane access by using a [Azure RBAC](#) or [Key Vault access policy](#)

- ☐ Azure role-based access control (recommended) ⓘ
- ☒ Vault access policy ⓘ

Resource access

- ☐ Azure Virtual Machines for deployment ⓘ
- ☐ Azure Resource Manager for template deployment ⓘ
- ☐ Azure Disk Encryption for volume encryption ⓘ

Access policies

Access policies enable you to have fine grained control over access to vault items. [Learn more](#)

+ Create ✎ Edit 🗑 Delete

<input type="checkbox"/> Name ↑↓	Email ↑↓	Key Permissions
▼ USER		
<input type="checkbox"/> Aakash de	aakash-de_outlook.com#EXT#@aakashdeoutlook.onmicroso...	Get, List, Update, Create, Import, Delete, Recover, Backup, Re...

Previous

Next

Review + create

Networking Tab

Create a key vault ...

Basics Access configuration Networking Tags Review + create

You can connect to this key vault either publicly, via public IP addresses or service endpoints, or privately, using a private endpoint.

Enable public access ☒

Public Access

Allow access from:

☒ All networks

☐ Selected networks

 Traffic from all public networks can access this resource. This is not recommended for private applications or environments. [Learn more](#)

Private endpoint

Create a private endpoint to allow a private connection to this resource. Additional private endpoint connections can be created within the key vault or private link center. [Learn more](#)

[+](#) Create a private endpoint

Name	Subscription	Resource group	Region	Subnet	Private DNS Zone
Click on add button to add private endpoint					

Review + Create Tab

Basics Access configuration Networking Tags Review + create

 [View Automation Template](#)

Basics

Subscription	Free Trial
Resource group	datamigration_rg
Key vault name	onprem2cloudkeyvault
Region	East US 2
Pricing tier	Standard
Soft-delete	Enabled
Purge protection during retention period	Disabled
Days to retain deleted vaults	90 days

Access configuration

Azure Virtual Machines for deployment	Disabled
Azure Resource Manager for template deployment	Disabled
Azure Disk Encryption for volume encryption	Disabled
Permission model	Vault access policy
Access policies	1

Networking

Connectivity method	Public endpoint (all networks)
---------------------	--------------------------------

[Previous](#)

[Next](#)

[Create](#)

Create

onprem2cloudkeyvault | Overview

Deployment

Search

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name : onprem2cloudkeyvault

Subscription : Free Trial

Resource group : datamigration_rg

Start time : 2/4/2025, 5:43:59 PM

Correlation ID : d508b12b-e024-421a-8432-28fb9f4b61eb

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Validate all the resources are created properly in the resource group:

Home >

datamigration_rg

Resource group

Search

Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Delete Export template Open in mobile

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Cost Management

Monitoring

Automation

Help

Essentials

Subscriptions (move) : Free Trial

Subscriptions ID : 28d7f610-c36f-43f2-94af-492aa845b0dd

Deployments : 5 Succeeded

Location : East US 2

Tags (edit) : Add tags

Resources

Recommendations

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 5 of 5 records. Show hidden types

Name	Type	Location
adisonprem2cloud	Storage account	East US 2
onprem2cloudadf	Data factory (V2)	East US 2
onprem2clouddatabricks	Azure Databricks Service	East US 2
onprem2cloudkeyvault	Key vault	East US 2
onprem2cloudmigrationworkspace	Synapse workspace	East US 2

All the required resources are now successfully created.