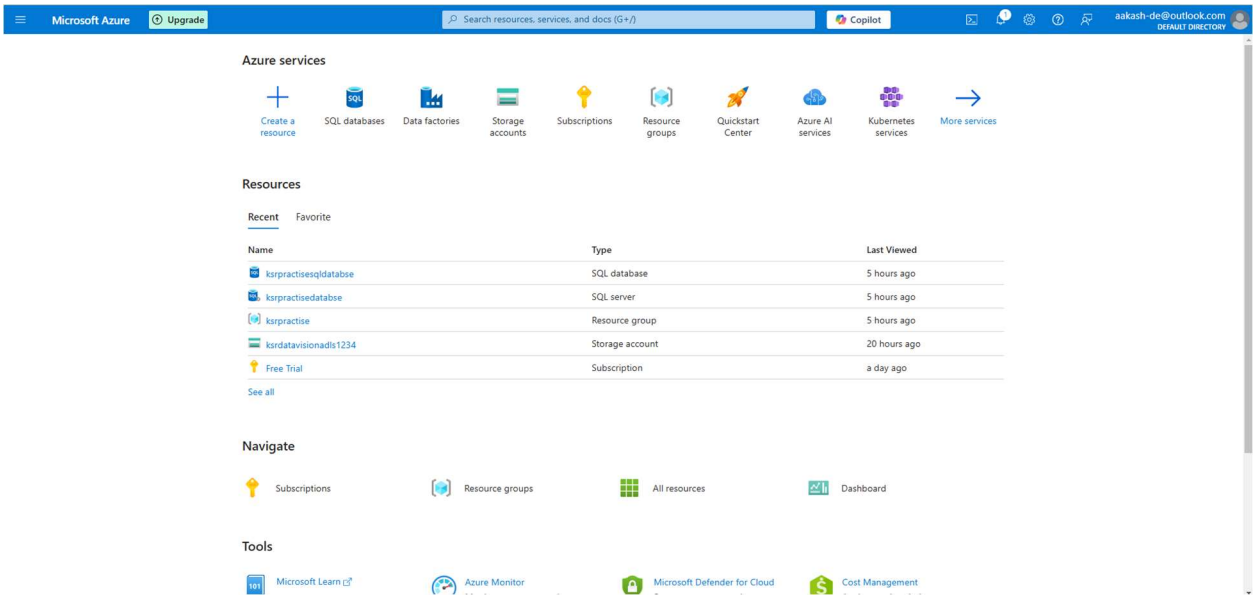
Create Resource Group

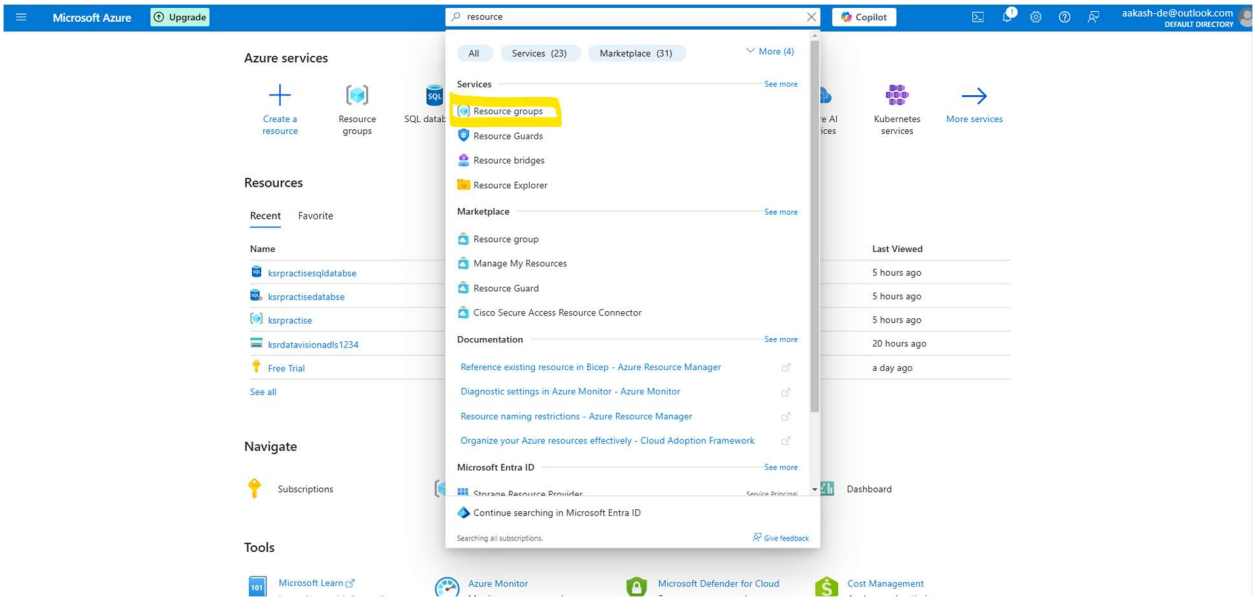
Step 1: Login to Azure Portal

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,

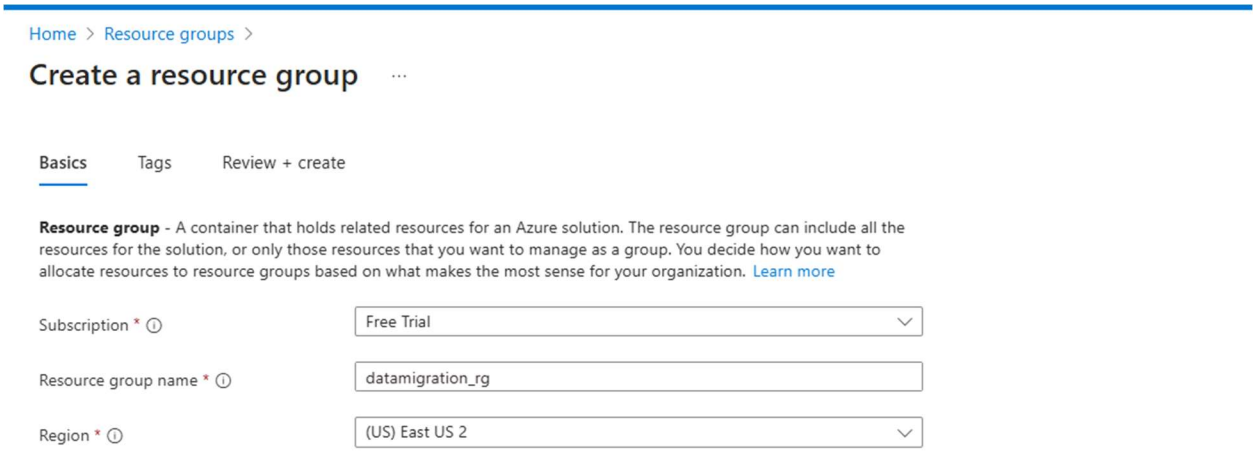


Step 2. Search for Resource Group in the search bar

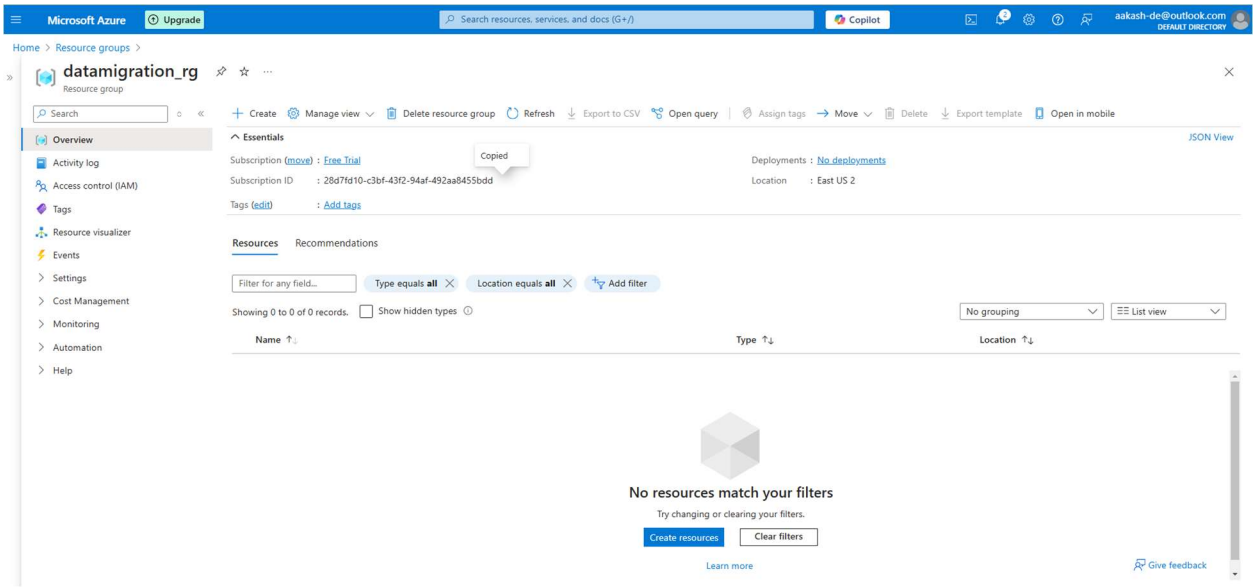
In the search bar at the top, type the keyword **'resource groups'** and select the correct service as shown in the screenshot below.



Create a resource group



Review and create. After completion open the resource group.



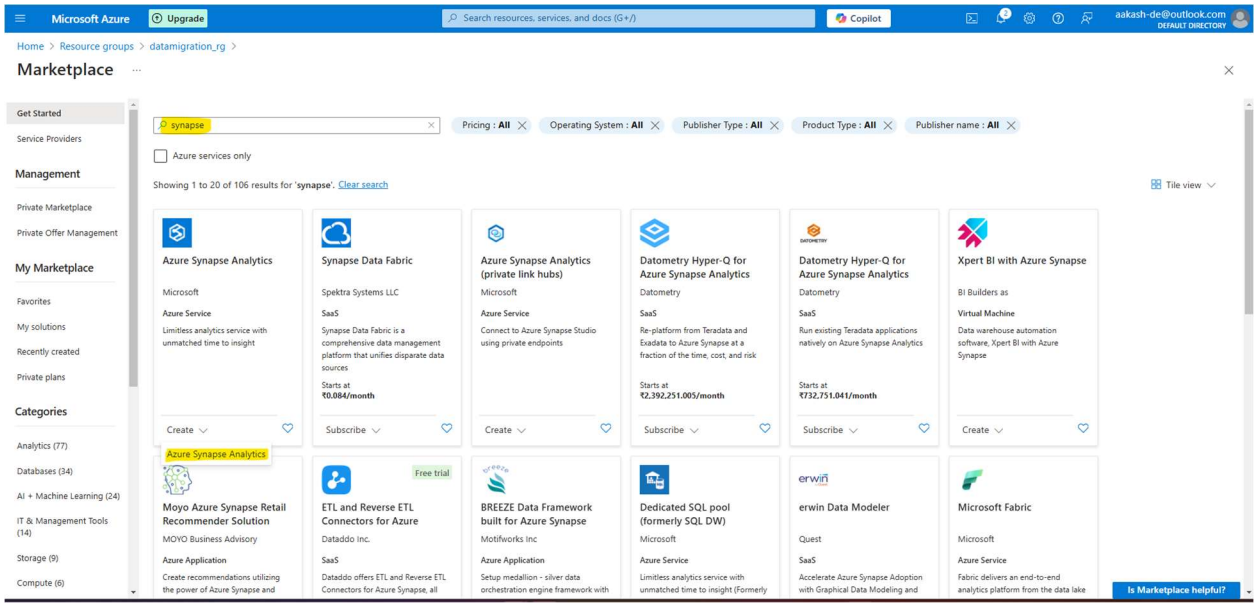
This is the resource group that you will be using in building this complete end to end project. Inside this resource group, we will be creating all the required tools used in this project. Let's see how we can create these in the next section.

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:

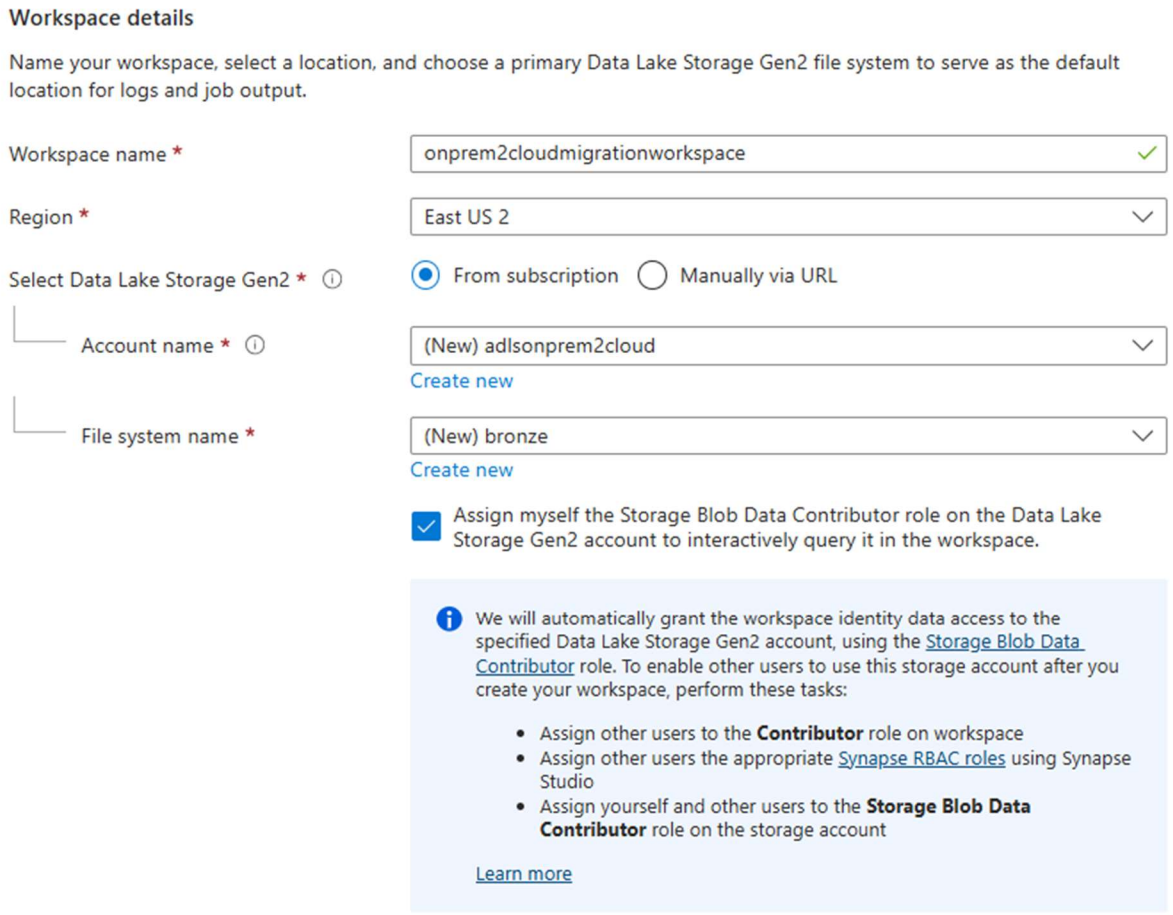
Workspoace Name: onprem2cloudmigrationworkspace

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,

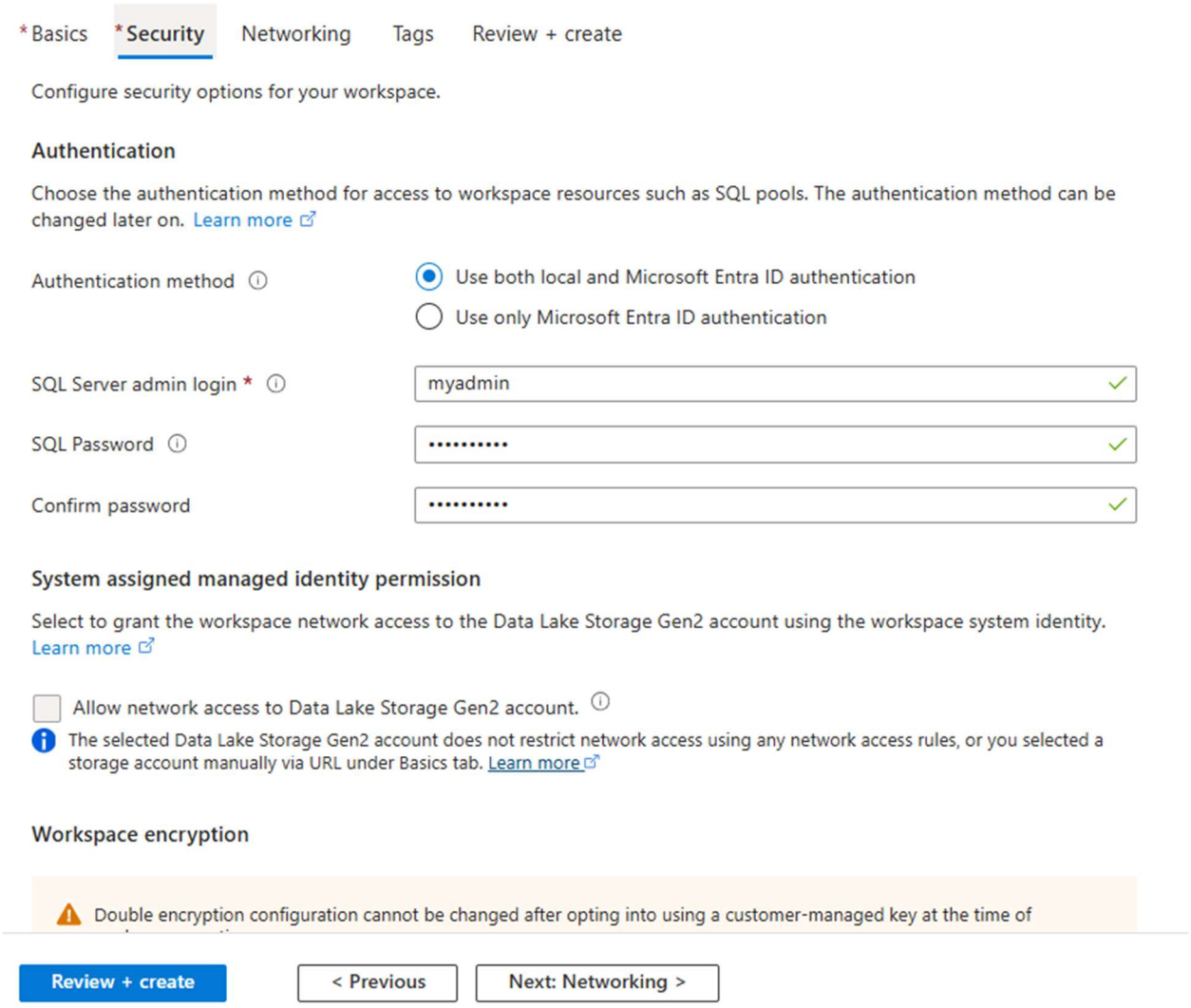
1. Account Name (This is the Storage Account Name)- Click on the "**Create new**" link and give it a name.

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

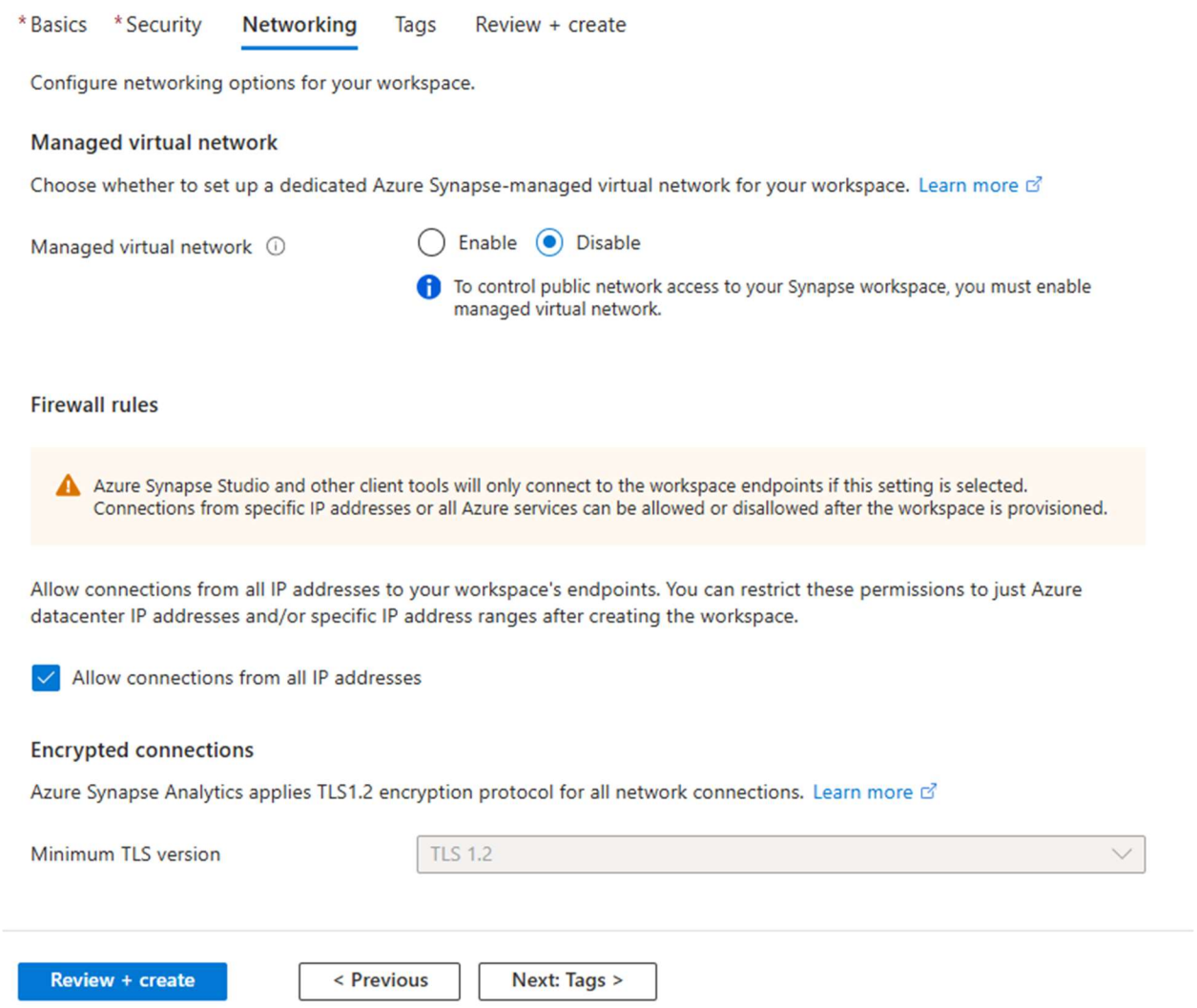


Note: Make sure the **"Assign myself the Storage Blob Data Contributor role on the Data Lake Storage Gen2 account to interactively query it in the workspace."** check box is **enabled**. This will make sure the Synapse Analytics have required access to the Storage account.

Security Tab:

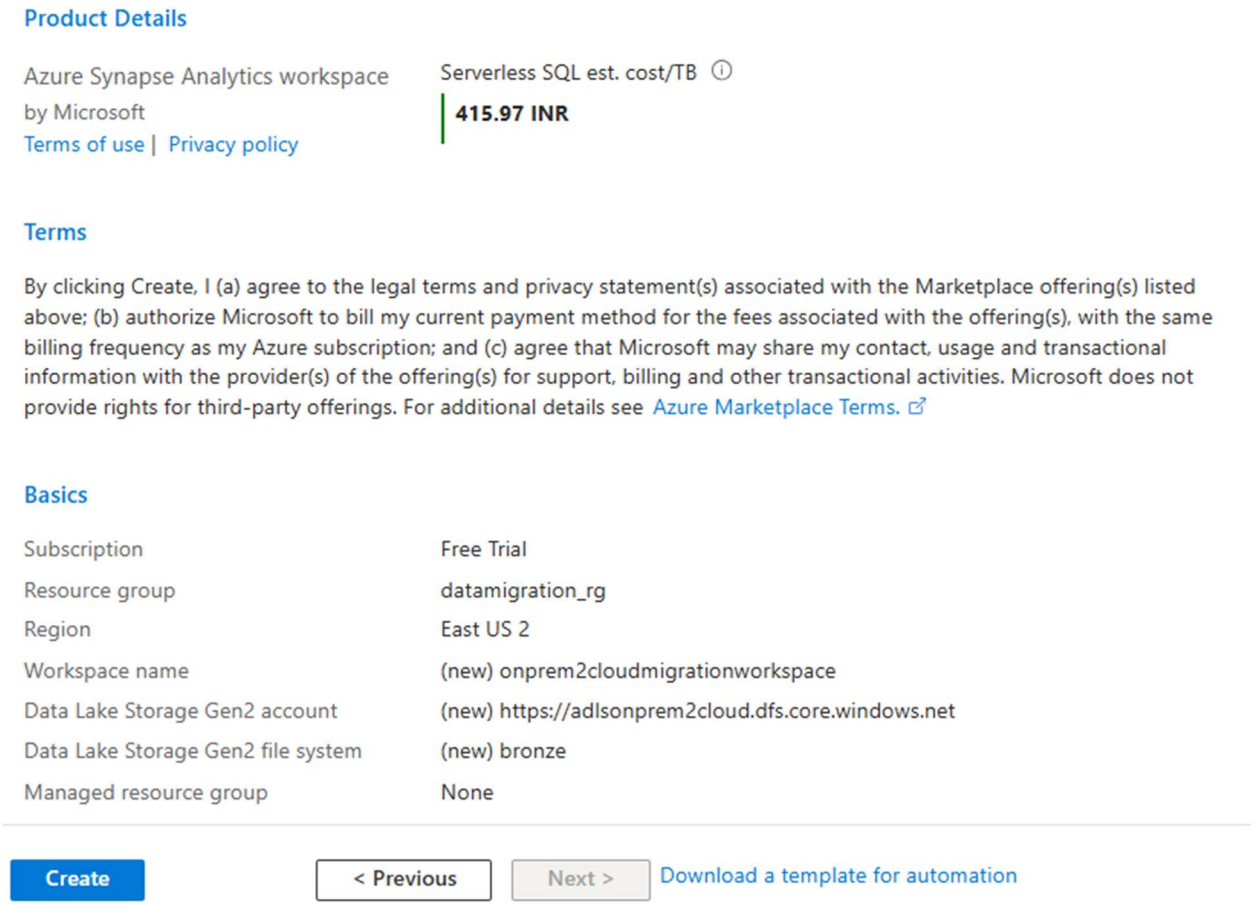


Networking Tab



No Changes to tags.

Review + Create Tab:

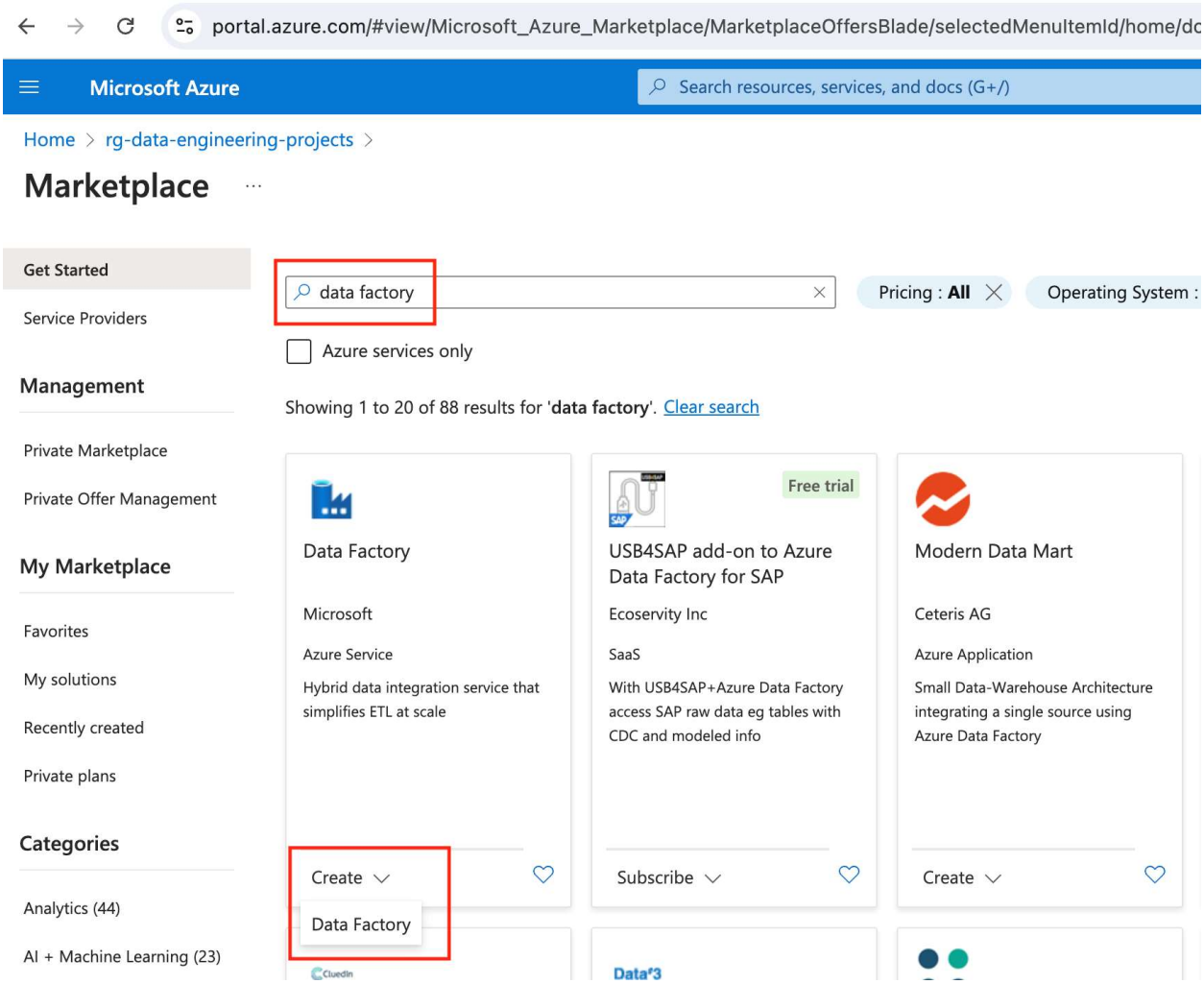


Click on create. Once deployment is completed, validate it on resource group.

Create Azure Data Factory:

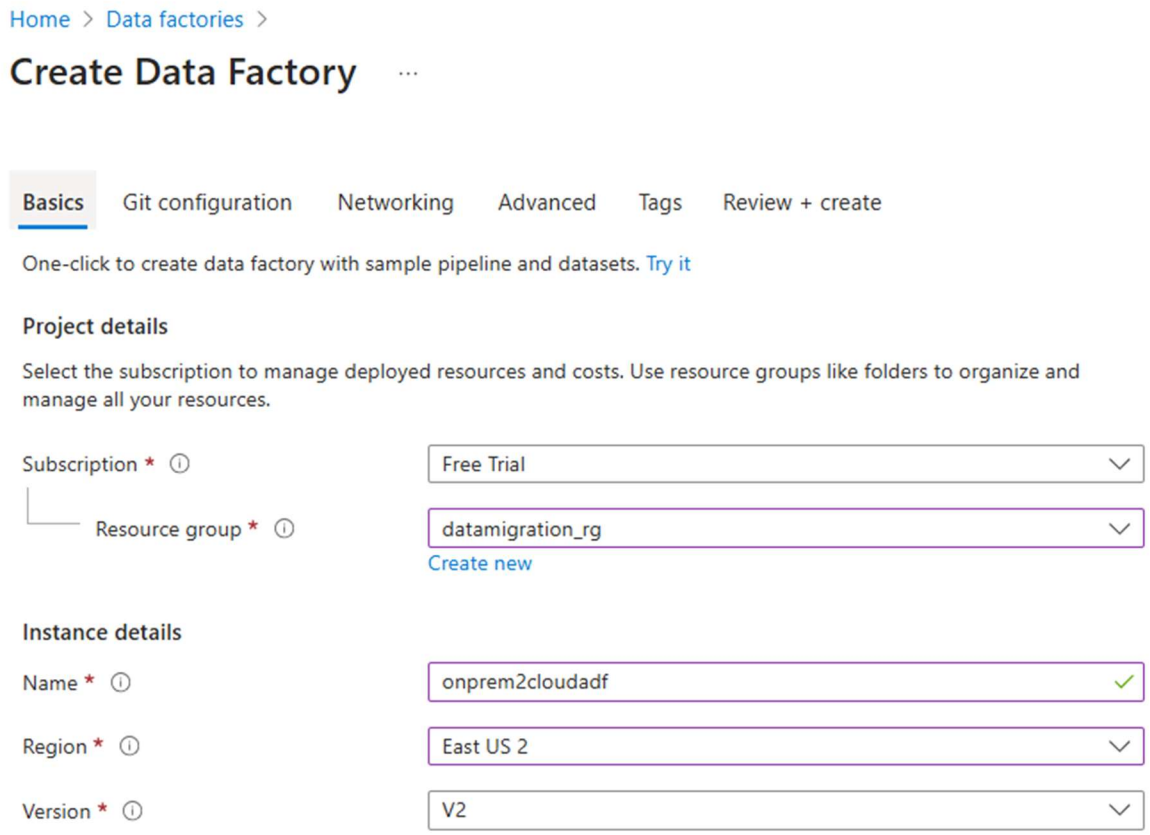
Step 1: Choose the Create option from the Resource Group

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,

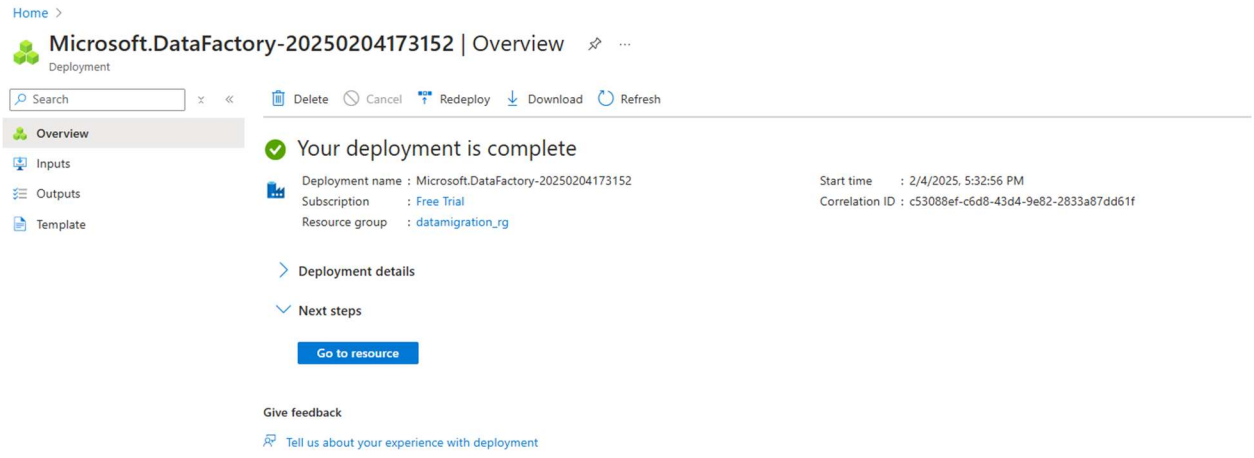


Choose your subscription and resource group (This will be automatically selected)

Fill in the Name, region and version as below.



Review and create.



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

Home > datamigration_rg > Marketplace >

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)

We selected the recommended pricing tier for your workspace. You can change the tier based on your needs.

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

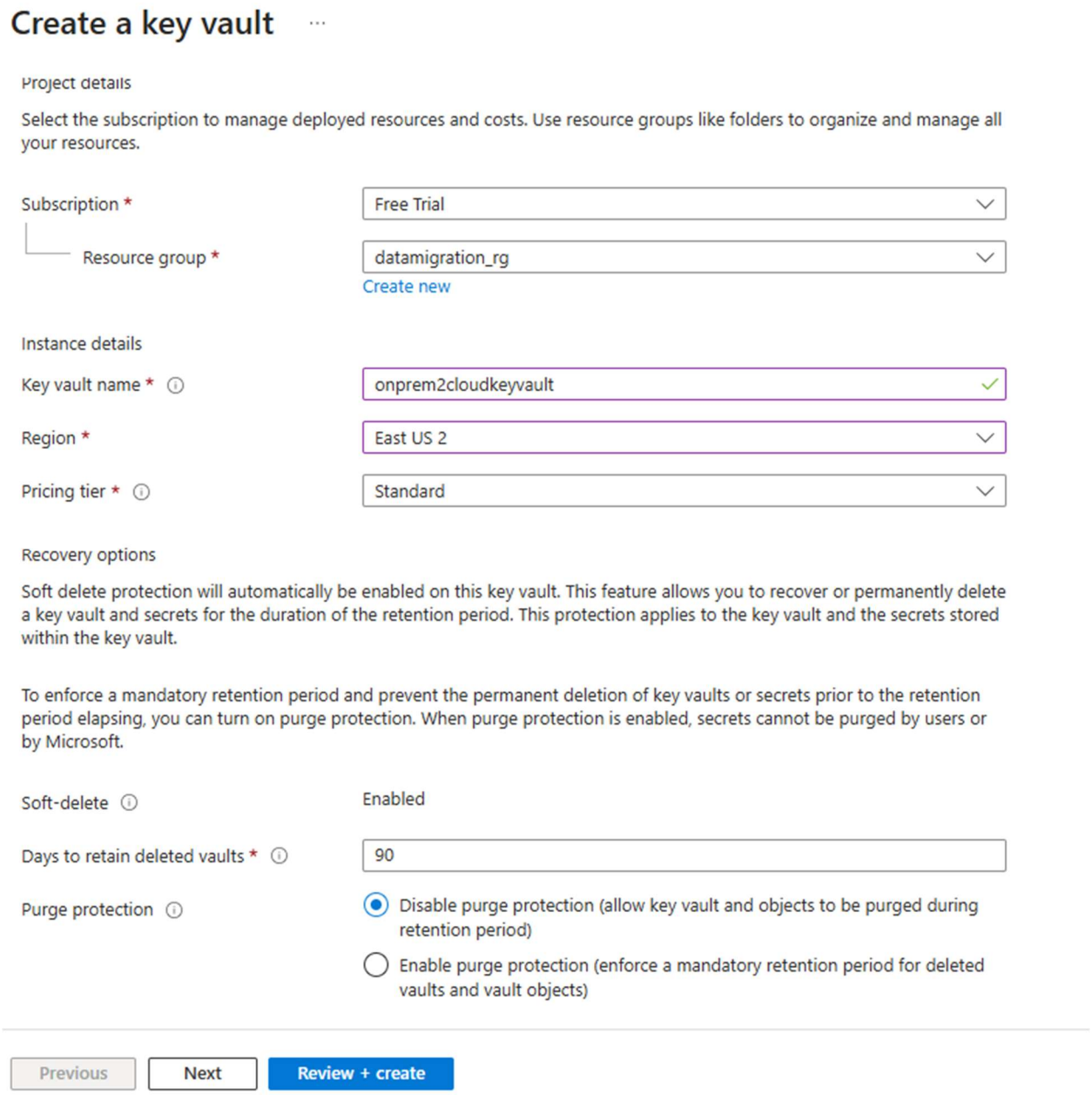
Leave other option to default and click on Review and Create.

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,

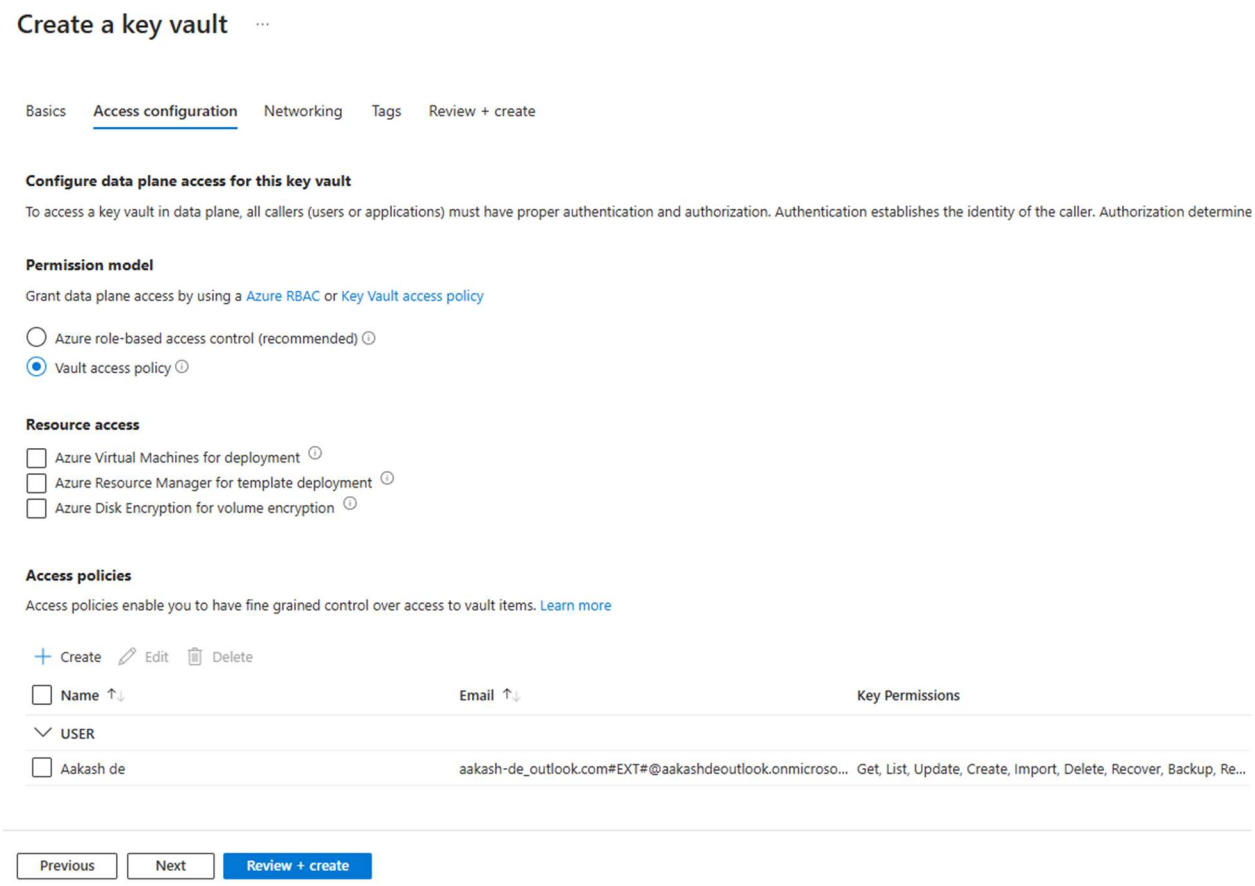
In the market place search box, search for "key vault" and click on the Create -> Key Vault option



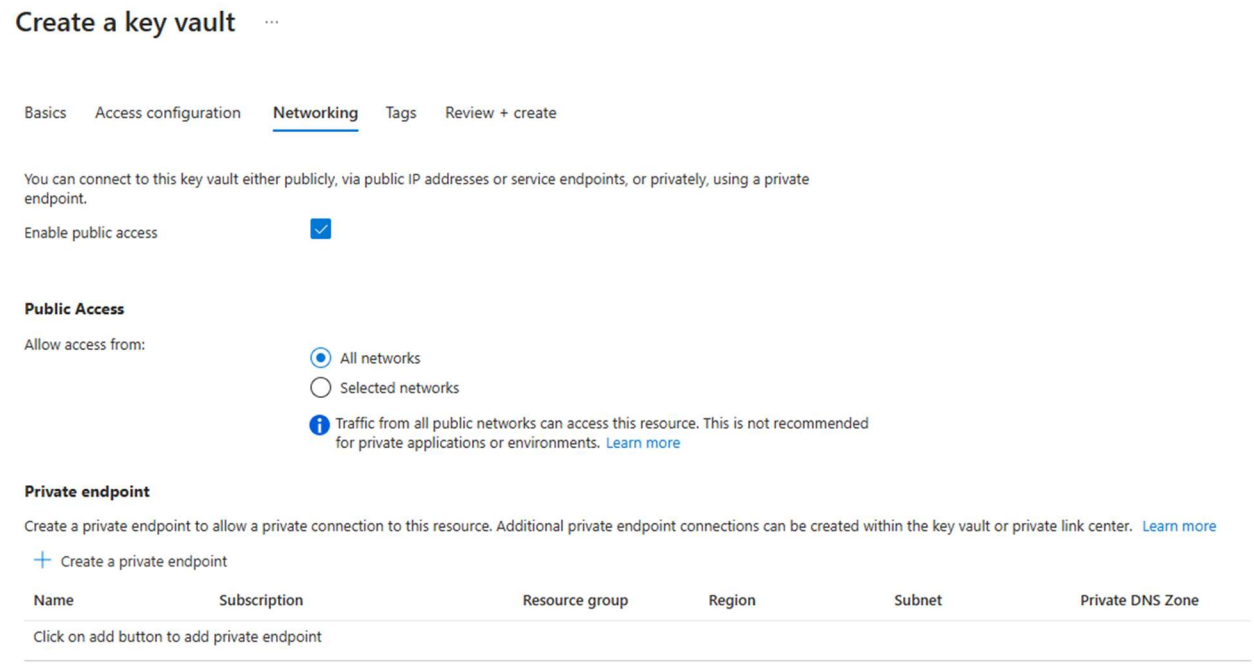
Access Configuration Tab

:

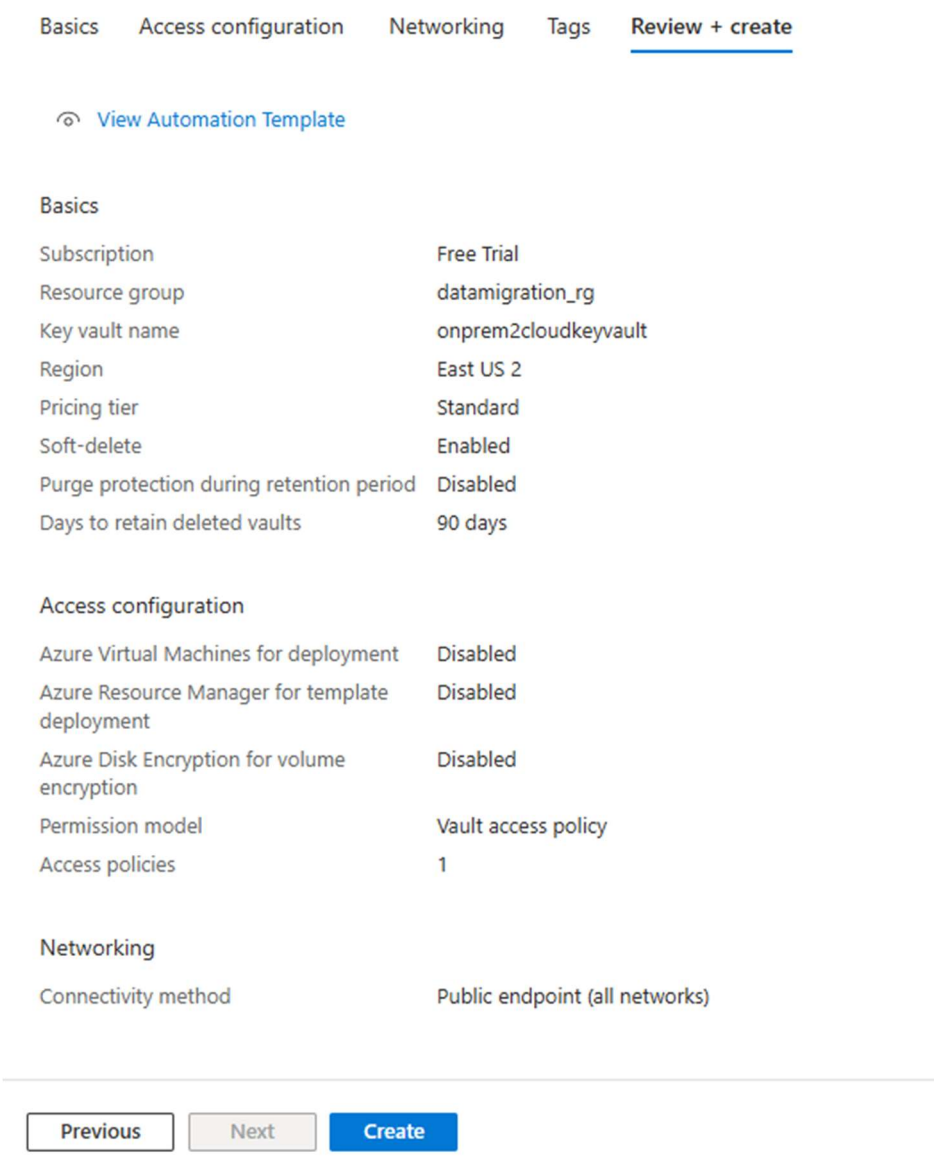
Configure the options as per the below screenshot.



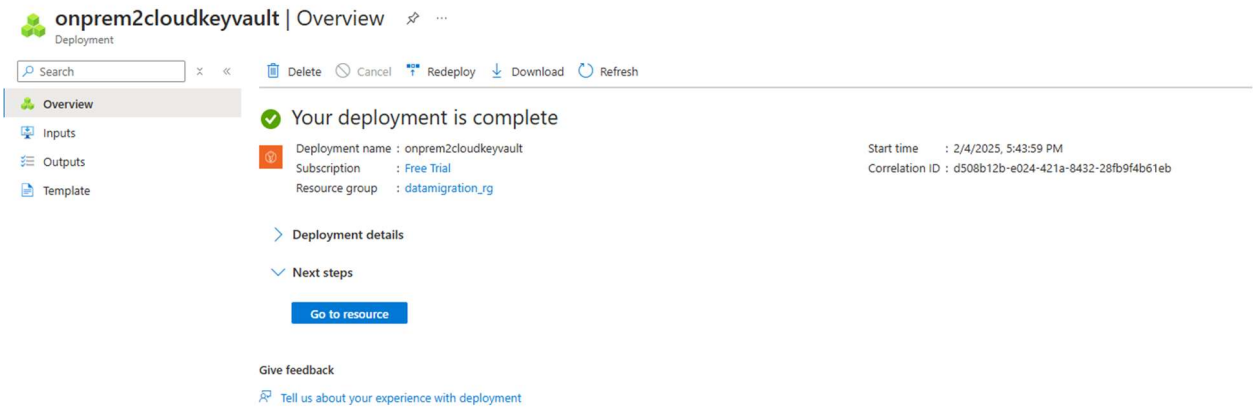
Networking Tab



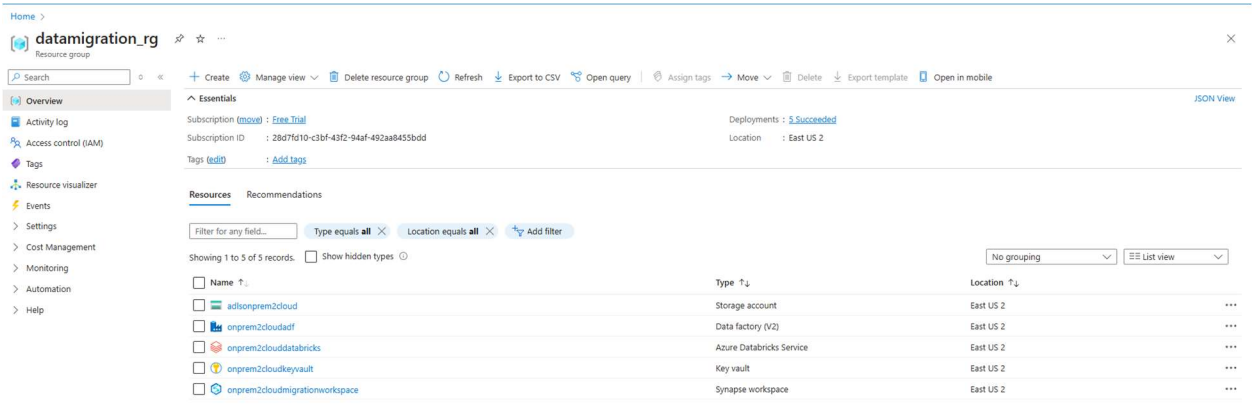
Review + Create Tab


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



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



All the required resources are now successfully created.