Azure Databricks Setup

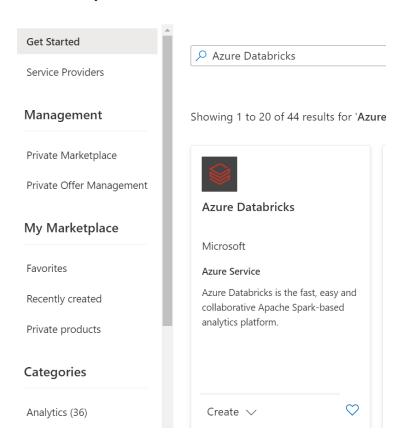
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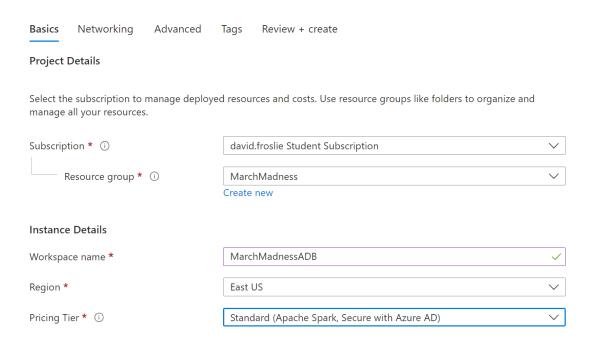
This walkthrough provides the steps required to set up a Databricks workspace in Azure, create a compute capability in that workspace, and then connect the workspace to the storage account created in assignment 1.

Create Azure Databricks Resource

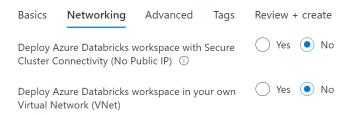
Marketplace



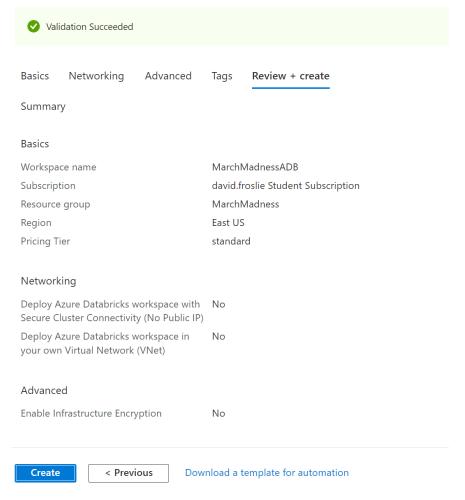
Create an Azure Databricks workspace



Create an Azure Databricks workspace

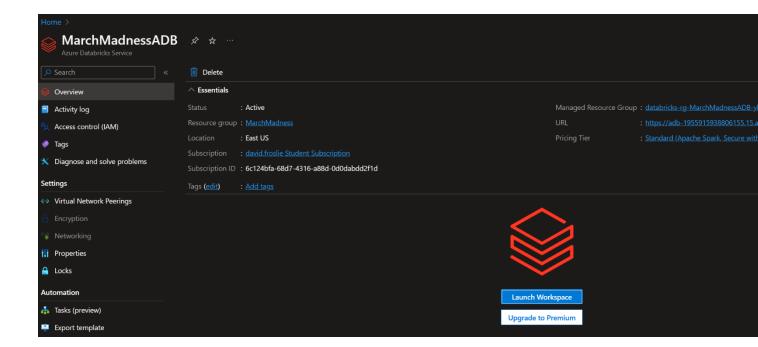


Create an Azure Databricks workspace

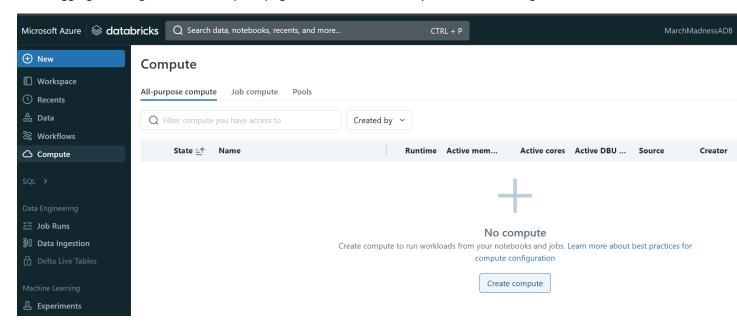


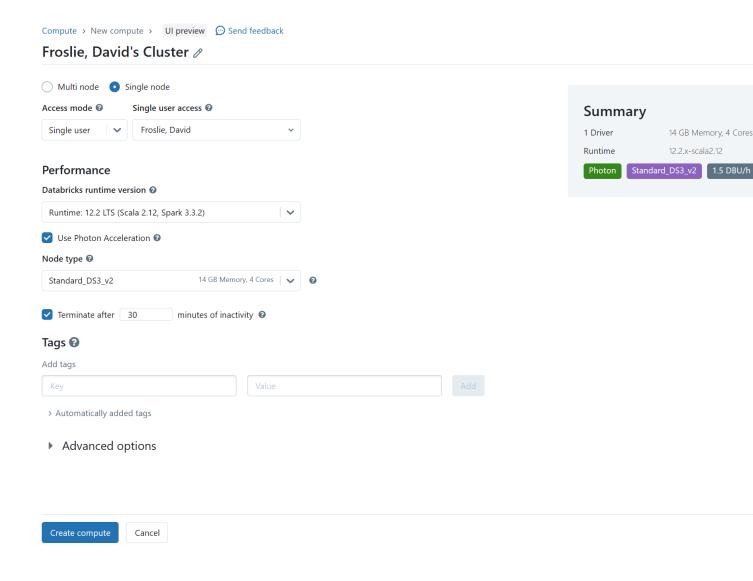
Set up minimalistic compute (0.75 dbu / hour, or \$0.30 / hour)

Navigate to the Azure resource that you just created. Databricks operates in a workspace set that you go to be clicking on Launch Workspace.



After logging in, navigate to the Compute page and click Create Compute. Create a Single node "cluster".





Set up access to storage account

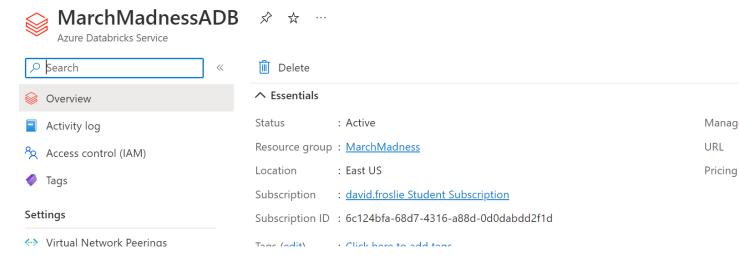
Use the key vault and storage account created in assignment 1 to connect the Databricks instance to the storage account. This is done in multiple steps:

- 1. Create a "secret scope" in Databricks that points to the key vault.
- 2. Create a secret in the key vault that has the access key to the storage account.
- 3. At run-time, specify the secret scope and the secret in the Spark configuration. This will enable access to the storage account.

Create secret scope in ADB

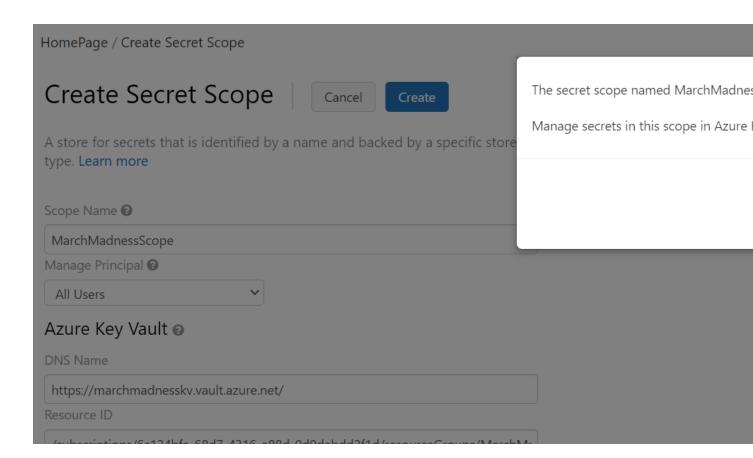
Follow the steps in to create the secret scope in Databricks: https://learn.microsoft.com/en-us/azure/databricks/security/secrets/secret-scopes#--create-an-azure-key-vault-backed-secret-scope

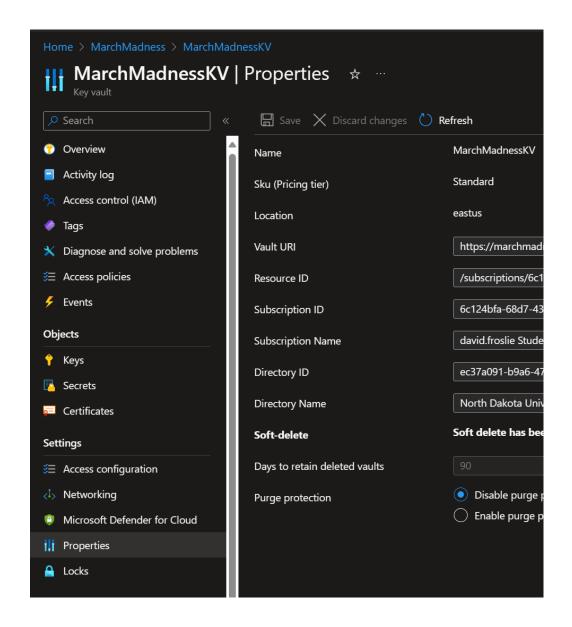
Home >



Substitute the URL shown in previous screenshot for <databricks-instance> in the following to navigate to the Create Secret Scope page: <a href="https://<databricks-instance>#secrets/createScope">https://<databricks-instance>#secrets/createScope

Fill in the values similar to what is shown below. The Azure Key Vault DNS and Resource ID can be found on the Key Vault Properties page as shown in the next screen shot (note - use Vaul URI for the DNS Name).

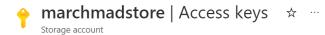


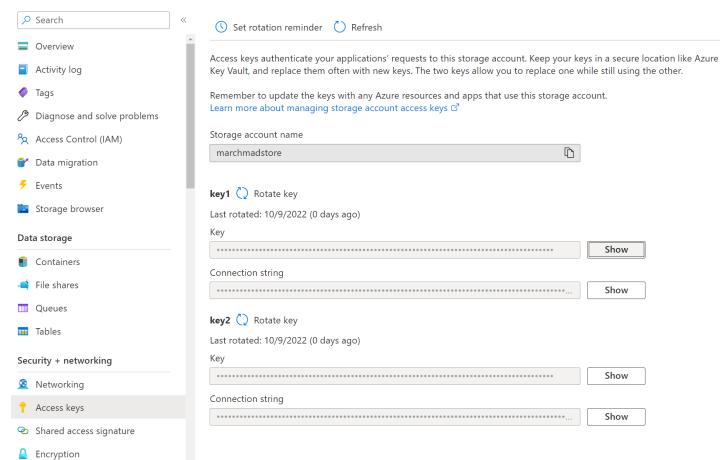


Create a key with the storage account access key

Retrieve the Key from key 1 under Access keys for the storage account or create a Shared access signature (SAS) key and copy the resulting key.

Home > MarchMadness > marchmadstore





Create a secret in your key vault to store the storage account key.

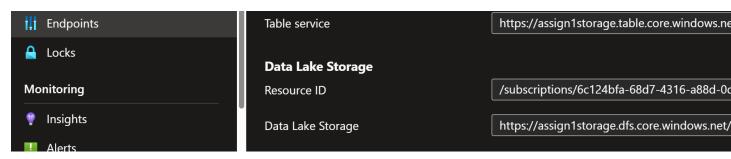
Home > MarchMadnessKV | Secrets >

Create a secret

Upload options	Manual
Name * ①	marchmadstore-key 🗸
Secret value * ①	
Content type (optional)	
Set activation date ①	
Set expiration date ①	
Enabled	Yes No
Tags	0 tags

Runtime

Use the secret in the API call to connect the storage for ADB.



Extract the storage end point from the storage account in the Azure portal as shown above. Use the scope and key that you set up earlier in this process.

```
storage_end_point = "assign1storage.dfs.core.windows.net"
my_scope = "MarchMadnessScope"
my_key = "assign1-key"
spark.conf.set(
    "fs.azure.account.key." + storage_end_point,
```

dbutils.secrets.get(scope=my_scope, key=my_key))

Replace the container name (assign-1-blob) and storage account name (assign1storage) in the uri.

uri = "abfss://assign-1-blob@assign1storage.dfs.core.windows.net/"