

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 ...

Get Started

Service Providers

Management

Private Marketplace

Private Offer Management

My Marketplace

Favorites

Recently created

Private products

Categories

Analytics (36)

 Azure Databricks

Showing 1 to 20 of 44 results for 'Azure



Azure Databricks

Microsoft

Azure Service

Azure Databricks is the fast, easy and collaborative Apache Spark-based analytics platform.

Create ▾



[Home](#) > [MarchMadness](#) > [Marketplace](#) > [Azure Databricks](#) >

Create an Azure Databricks workspace ...

[Basics](#) [Networking](#) [Advanced](#) [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 *	<div>①</div>	<div>david.froslic Student Subscription</div>	▼
Resource group *	<div>①</div>	<div>MarchMadness</div>	▼
Create new			

Instance Details

Workspace name *	<div>MarchMadnessADB</div>	✓	
Region *	<div>East US</div>	▼	
Pricing Tier *	<div>①</div>	<div>Standard (Apache Spark, Secure with Azure AD)</div>	▼

Create an Azure Databricks workspace ...

[Basics](#) [Networking](#) [Advanced](#) [Tags](#) [Review + create](#)

Deploy Azure Databricks workspace with Secure Cluster Connectivity (No Public IP) ① ☐ Yes ☒ No

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

Create an Azure Databricks workspace ...

 Validation Succeeded

- Basics
- Networking
- Advanced
- Tags
- Review + create

Summary

Basics

Workspace name	MarchMadnessADB
Subscription	david.froslic Student Subscription
Resource group	MarchMadness
Region	East US
Pricing Tier	standard

Networking

Deploy Azure Databricks workspace with Secure Cluster Connectivity (No Public IP)	No
Deploy Azure Databricks workspace in your own Virtual Network (VNet)	No

Advanced

Enable Infrastructure Encryption	No
----------------------------------	----

Create

< Previous

[Download a template for automation](#)

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.

Home >

MarchMadnessADB

Azure Databricks Service

Search Delete

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Virtual Network Peerings
- Encryption
- Networking
- Properties
- Locks

Automation

- Tasks (preview)
- Export template

Essentials

Status : Active

Resource group : [MarchMadness](#)

Location : East US

Subscription : [david.frosbie Student Subscription](#)


Subscription ID : 6c124bfa-68d7-4316-a88d-0d0dabdd2f1d

Tags ([edit](#)) : [Add tags](#)

Managed Resource Group : [databricks-rg-MarchMadnessADB-y](#)

URL : [https://adb-1955915938806155.15.a](#)

Pricing Tier : Standard (Apache Spark, Secure with



[Launch Workspace](#)

[Upgrade to Premium](#)

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

Microsoft Azure | databricks | Search data, notebooks, recents, and more... | CTRL + P | MarchMadnessADB

New

- Workspace
- Recents
- Data
- Workflows
- Compute
- SQL >
- Data Engineering
- Job Runs
- Data Ingestion
- Delta Live Tables
- Machine Learning
- Experiments

Compute

All-purpose compute | Job compute | Pools

Filter compute you have access to | Created by

State	Name	Runtime	Active mem...	Active cores	Active DBU ...	Source	Creator
-------	------	---------	---------------	--------------	----------------	--------	---------

No compute

Create compute to run workloads from your notebooks and jobs. [Learn more about best practices for compute configuration](#)

Create compute

[Compute](#) > [New compute](#) > [UI preview](#) [Send feedback](#)

Froslie, David's Cluster [✎](#)

☐ Multi node ☒ Single node

Access mode [?](#) Single user access [?](#)

Single user [▼](#)

Froslie, David [▼](#)

Performance

Databricks runtime version [?](#)

Runtime: 12.2 LTS (Scala 2.12, Spark 3.3.2) [▼](#)

☒ Use Photon Acceleration [?](#)

Node type [?](#)

Standard_DS3_v2

14 GB Memory, 4 Cores [▼](#)



☒ Terminate after minutes of inactivity [?](#)

Tags [?](#)

Add tags

Key

Value

Add

> Automatically added tags

► Advanced options

Create compute

Cancel

Summary

1 Driver

14 GB Memory, 4 Cores

Runtime

12.2.x-scala2.12

Photon

Standard_DS3_v2

1.5 DBU/h

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](#) >



MarchMadnessADB

Azure Databricks Service



Delete



Overview



Activity log



Access control (IAM)



Tags

Settings



Virtual Network Peerings

^ Essentials

Status : Active

Resource group : [MarchMadness](#)

Location : East US

Subscription : [david.froslie Student Subscription](#)

Subscription ID : 6c124bfa-68d7-4316-a88d-0d0dabdd2f1d

Tags (edit) : [Click here to add tags](#)

Manag

URL

Pricing

Substitute the URL shown in previous screenshot for <databricks-instance> in the following to navigate to the Create Secret Scope page: <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 Vault URI for the DNS Name).

Create Secret Scope

Cancel

Create

A store for secrets that is identified by a name and backed by a specific store type. [Learn more](#)

Scope Name ?

MarchMadnessScope

Manage Principal ?

All Users

Azure Key Vault ?

DNS Name

https://marchmadnesskv.vault.azure.net/

Resource ID

/subscriptions/65134bfe-68d7-4216-a89d-0d0d4b4d2f1d/resourceGroups/MarchM

The secret scope named MarchMadness

Manage secrets in this scope in Azure

Home > MarchMadness > MarchMadnessKV

MarchMadnessKV | Properties

Key vault

Search << Save Discard changes Refresh

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Access policies
- Events

Objects

- Keys
- Secrets
- Certificates

Settings

- Access configuration
- Networking
- Microsoft Defender for Cloud
- Properties**
- Locks

Name	MarchMadnessKV
Sku (Pricing tier)	Standard
Location	eastus
Vault URI	https://marchmad
Resource ID	/subscriptions/6c1
Subscription ID	6c124bfa-68d7-43
Subscription Name	david.froslie Stude
Directory ID	ec37a091-b9a6-47
Directory Name	North Dakota Univ
Soft-delete	Soft delete has bee
Days to retain deleted vaults	90
Purge protection	<input checked="" type="radio"/> Disable purge p <input type="radio"/> Enable purge p

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.



marchmadstore | Access keys



Storage account



Set rotation reminder



Refresh

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Data storage

Containers

File shares

Queues

Tables

Security + networking

Networking

Access keys

Shared access signature

Encryption

Access keys authenticate your applications' requests to this storage account. Keep your keys in a secure location like Azure Key Vault, and replace them often with new keys. The two keys allow you to replace one while still using the other.

Remember to update the keys with any Azure resources and apps that use this storage account.

[Learn more about managing storage account access keys](#)

Storage account name

marchmadstore



key1 Rotate key

Last rotated: 10/9/2022 (0 days ago)

Key

.....

Show

Connection string

.....

Show

key2 Rotate key

Last rotated: 10/9/2022 (0 days ago)

Key

.....

Show

Connection string

.....

Show

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

[Home](#) > [MarchMadnessKV](#) | [Secrets](#) >

Create a secret

Upload options	Manual
Name * ⓘ	marchmadstore-key ✓
Secret value * ⓘ ✓
Content type (optional)	
Set activation date ⓘ	<input type="checkbox"/>
Set expiration date ⓘ	<input type="checkbox"/>
Enabled	<input checked="" type="radio"/> Yes <input type="radio"/> No
Tags	0 tags

Runtime

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

Endpoints

Locks

Monitoring

Insights

Alerts

Table service

https://assign1storage.table.core.windows.net

Data Lake Storage

Resource ID

/subscriptions/6c124bfa-68d7-4316-a88d-0c

Data Lake Storage

https://assign1storage.dfs.core.windows.net/

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/"
```