Apache Spark 3 Fundamentals

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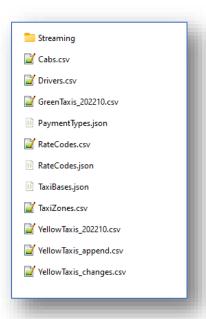
A. GitHub Repo

All code and data files are available in Exercise Files. Refer to following GitHub repo for additional instructions and information.

https://github.com/Crystal-Talks/ApacheSpark3Fundamentals

B. Included Files

- 1. Code folder
 - a. Contains following:
 - i. Shell commands
 - ii. Jupyter Notebooks
 - iii. PyCharm Project
 - iv. Cloud Notebooks
- 2. DataFiles folder



C. Install Spark on macOS

Refer to installation instructions at following GitHub repo:

https://github.com/Crystal-Talks/ApacheSpark3Fundamentals

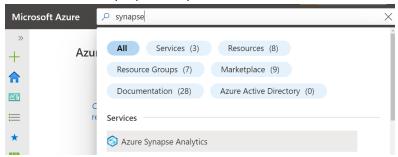
D. Prerequisites for Cloud Setup

1. Azure subscription

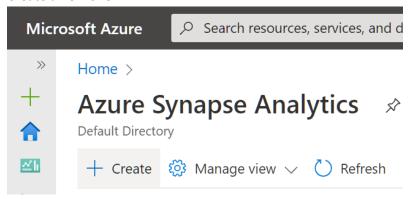
https://azure.microsoft.com/en-in/free/

E. Azure Synapse Analytics: Steps to create workspace

- 1. Go to Azure portal (portal.azure.com)
- 2. Search for Azure Synapse Analytics. Select it.

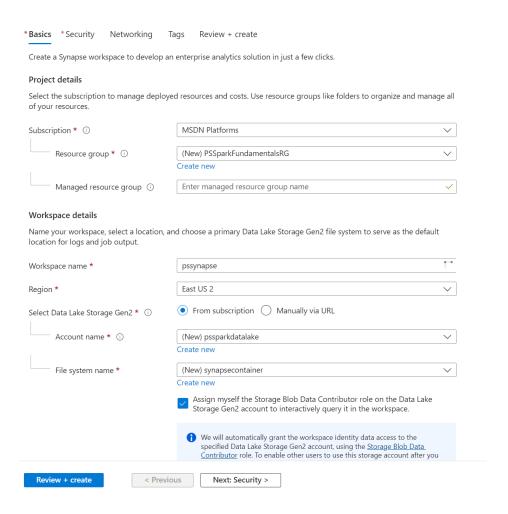


3. Create a new one.

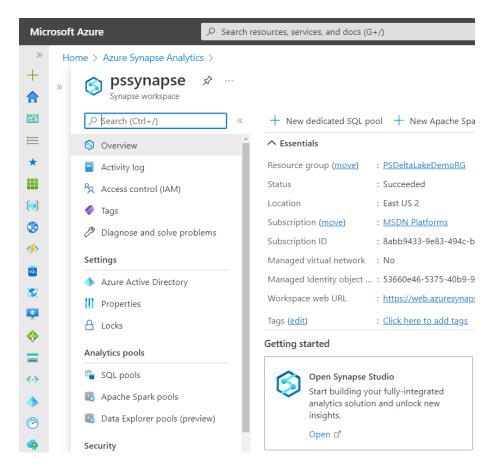


- 4. In **Basics** tab, provide property values:
 - a. Select subscription and resource group (or create new)
 - b. Workspace name: Any unique value
 - c. **Region:** Choose any
 - d. Data Lake Gen2 account: Create a new one by providing a unique name
 - e. File system name: Create a new one "synapsecontainer"

Create Synapse workspace



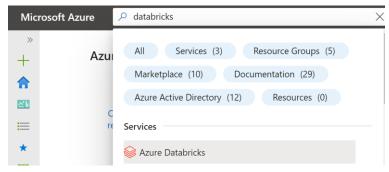
- 5. Click Review + Create.
- 6. Click Create.
- 7. Once Synapse instance is created, open the instance.



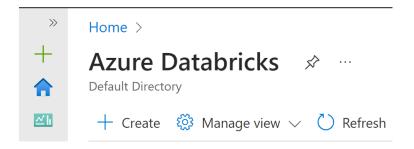
- 8. Click **Open** to launch Synapse studio.
- 9. Follow instructions in video to work with Synapse.

F. Azure Databricks: Steps to create workspace

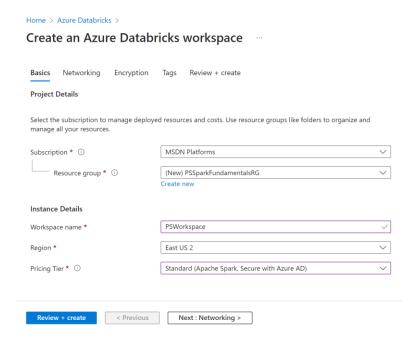
- 1. Go to Azure portal (portal.azure.com)
- 2. Search for Databricks. Select it.



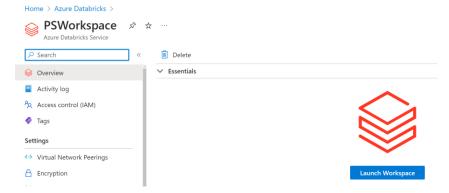
3. Create a new one.



- 4. In **Basics** tab, provide property values:
 - a. Select subscription and resource group (or create new)
 - b. Workspace name: Any unique value
 - c. Region: Choose anyd. Pricing Tier: Standard



- 5. Click Review + Create.
- 6. Click Create.
- 7. Once Databricks instance is created, open the instance.



- 8. Click **Open** to launch Databricks workspace.
- 9. Follow instructions in video to work with Databricks.