**Overall:**

This script help to create EXTERNAL TABLEs and VIEWs on Synapse that linked to parquet FHIR data files in Storage.

It will do 3 things:

1. Upload some hidden readme files to Storage,
2. Create a new database on Synapse serverless SQL pool, and initialize its environment (Create data sources, create storage credential, create data format, e.t)
3. Create EXTERNAL TABLEs and VIEWs by executing SQL scripts in “resources” directory.

For cleaning up, the script will try to drop the database (if created successfully) if fail to create EXTERNAL TABLEs and VIEWs.

**Requirements:**

1. An Azure Storage instance.
2. An Azure Synapse Analytics instance.
3. In **Synapse Studio** -> **Manage** -> **Access Control**, add your Azure account as the “**Synapse Administrator**” role.

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

1. In storage **Access Control (IAM),** in “Members” select “**User, group, or service principal**”, add your Azure account as the “**Storage Blob Data Contributor**” role.

Graphical user interface, text, application

Description automatically generated

1. In storage **Access Control (IAM),** in “Members” select “**Managed identity**”, then select “Synapse workspace” in “Managed identity”, add your Synapse workspace as the “**Storage Blob Data Contributor**” role.

Graphical user interface, text, application, chat or text message

Description automatically generated

Graphical user interface, text, application

Description automatically generated

**Run:**

1. Open powershell terminal and go to the scripts directory.
2. login your account by command:

Connect-AzAccount

1. Run script by command like:

./Set-SynapseEnvironment.ps1 -SqlServerEndpoint "{Your Synapse serverless SQL pool endpoint}" -Storage "{Your storage name where parquet FHIR data be exported to}"

Then you can directly analysis your FHIR data in Synapse.

**Syntax:**

Set-SynapseEnvironment

[-SqlServerEndpoint] <string>

[-Storage] <string>

[[-Database] <string>, default: “fhirdb”]

[[-Container] <string>, default: “testsynapselink”]

[[-ResultPath] <string>, default: “result”]

[[-MasterKey] <string>, default: ”FhirSynapseLink0!”]

[[-Concurrent] <int>, default: 25]

**Parameters:**

-SqlServerEndpoint

Synapse serverless SQL pool endpoint. E.g. “example-ondemand.sql.azuresynapse.net“

-Storage

Name of storage where parquet FHIR data be exported to.

-Database

Naem of database to be created on Synapse serverless SQL pool

-Container

Name of container on storage where parquet FHIR data be exported to.

-ResultPath

Path to the parquet FHIR data.

-MasterKey

Master key that will be set in created database. Database need to have master key then we can create EXTERNAL TABLEs and VIEWs on it.

-Concurrent

Max concurrent tasks number that will be used to upload place holder files and execute SQL scripts.