

Explore Azure Synapse Data Explorer


SUBMITTED BY:
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LEARNING OUTCOMES:

- ☐ **Set Up Synapse Analytics & Data Explorer** – Provision a Synapse workspace, create a Data Explorer pool, and configure storage.
- ☐ **Ingest and Manage Data** – Load structured data (CSV) into a Data Explorer database and verify ingestion.
- ☐ **Query Data with KQL** – Use Kusto Query Language (KQL) to filter, aggregate, and analyze time-series data.
- ☐ **Manage and Clean Up Resources** – Navigate the Azure portal to monitor usage and delete resources to avoid costs.

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 **Microsoft.Azure.SynapseAnalytics-20250208111345** | Overview ⌵ ...

Deployment

🔍 s

Overview

Inputs

Outputs

Templates

sss

sharnfs

🗑️ Delete

🛑 Cancel

🔄 Redeploy

⬇️ Download

🔄 Refresh

⋮ Deployment is in progress



Deployment name : Microsoft.Azure.SynapseAnalytics-202502081...
Subscription : [X Labs-111](#)
Resource group : [synapse-rg](#)

Start time : 8/2/2025, 11:15:13 am
Correlation ID : 447e3433-6ee0-44cd-a707-a2e5cdcd4523

Deployment details

Resource	Type	Status	Operation details
 datalakesharn	 Storage account	Accepted	Operation details

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web.azuresynapse.net/en/home?workspace=%2Fsubscriptions%2F17272b1d-1ab1-49f6-84e7-f53be61e2ccd%2FresourceGroups%2Fsynapse-rg%2Fprov...

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Microsoft Azure | Synapse Analytics ▶ synapse-wsharn

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Synapse Analytics workspace


synapse-wsharn

New ▾




Ingest

Perform a one-time or scheduled data load.



Explore and analyze


Learn how to get insights from your data.




Visualize


Build interactive reports with Power BI capabilities.

Discover more

 Knowledge center

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🔍 Search



ENG US

11:20 AM 2025-02-08

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Synapse live Validate all Publish all

Home

Data

Develop

Integrate

Monitor

Manage

Analytics pools

- SQL pools
- Apache Spark pools
- Data Explorer pools (pre...

External connections

- Linked services
- Microsoft Purview

Integration

- Triggers
- Integration runtimes

Security

- Access control
- Credentials
- Managed private endpoi...

Configurations + libraries

- Workspace packages
- Data flow libraries
- Apache Spark configurat...

Data Explorer pools (preview)

Data Explorer pools can be used to run near real-time analytics on large volumes of logs and time series data streaming from applications, websites, IoT devices, and more. [Learn more](#)

+ New Refresh

Filter by name

Showing 1-1 of 1 item

Name	Type	Status	Size
sharnpool	Data Explorer pool	Online	Extra small (2 Cores / 80 ...)

Successfully deployed

Successfully deployed the sharnpool (Data Explorer pool) to the workspace.

dataexplorer.azure.com/oneclick/createtable

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Azure Data Explorer

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XLab-htp-111

X

Home

Query

Dashboards

My cluster

Create table

sharnpool > iot-data > devices

✓ Destination

② Schema

③ Create table

Create table

Select your cluster and database, and then a table to store your data. [Learn more](#)

Cluster *

sharnpool

Add connection

Database *

iot-data

Table name * ⓘ

devices

Previous

Next: Schema

Cancel

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Windows Start

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Taskbar Icons

System Tray

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INGESTION OF DATA:

dataexplorer.azure.com/oneclick/ingest?sourceType=file

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Azure Data Explorer | ? | XLab-tml-443

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Query

Dashboards

My cluster

✔ Data ingestion completed

sharnpool.synapse-wsharn > iot-data > devices

> ✔ Ingestion preparation

> ✔ Ingestion 1 total blobs, 1 succeeded • 0 failed

∨ ✔ Data preview

	Column1	Column2	Column3
>	2022-01-04 00:00:04.0000	Dev5	6
>	2022-01-05 00:00:00.0000	Dev1	7
>	2022-01-05 00:00:01.0000	Dev2	5
>	2022-01-05 00:00:02.0000	Dev3	6
>	2022-01-05 00:00:03.0000	Dev4	8
>	2022-01-05 00:00:04.0000	Dev5	4
>	2022-01-06 00:00:00.0000	Dev1	5
>	2022-01-06 00:00:01.0000	Dev2	2
>	2022-01-06 00:00:02.0000	Dev3	6
>	2022-01-06 00:00:03.0000	Dev4	6
>	2022-01-06 00:00:04.0000	Dev5	1

Close

Cancel

KQL SCRIPT QUERIES:

← → ↻

web.azuresynapse.net/en/authoring/explore/workspace/kqlscripts/KQL%20script%201?workspace=%2Fsubscriptions%2F8b127a8f-4348-4b51-bcd7-5d545f04...

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Validate all

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Data

Workspace

Linked

Filter resources by name

Data Explorer Databases (Previous) 1

sharnpool (sharnpool)

iot-data

External tables

Functions

Materialized Views

Tables

devices

KQL script 1

Other users in your workspace may have access to modify this item. Do not use this item unless you trust all users who may have access to the workspace.

Run Undo Publish

Connect to sharnpool

Use database iot-data

1 devices

2 | take 1000s

Results

Messages

View Table Chart

Export results

Search

Column1	Column2	Column3
	Device	
2022-01-01T00:00:00Z	Dev1	7

00:00:00 Query executed successfully.

Properties

General Related (0)

Name * KQL script 1

Description

Type .kql script

Size 0 bytes

1

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Filter resources by name

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External tables

Functions External tables

Materialized Views

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devices

KQL script 1

Other users in your workspace may have access to modify this item. Do not use this item unless you trust all users who may have access to the workspace.

Run Undo Publish Connect to sharnpool Use database iot-data

1 devices

2 | where Column2 == 'Dev1'

3 | where Column1 > datetime(2022-01-07)

Results Messages

View Table Chart Export results

Search

Column1	Column2	Column3
2022-01-08T00:00:00Z	Dev1	2
2022-01-09T00:00:00Z	Dev1	4

00:00:00 Query executed successfully.

Properties

General Related (0)

Name * KQL script 1

Description

Type .kql script

Size 0 bytes

DELETION OF THE RESOURCE GROUP:

portal.azure.com/?azure-portal=true#@xtremelabs.onmicrosoft.com/resource/subscriptions/8b127a8f-4348-4b51-bcd7-5d545f04f060/resourceGroups/s...

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Search resources, services, and docs (G+)

Copilot

Home >

sharnpool (synapse-wsharn/sharnpool)

Data Explorer pool (preview)

Search

+ Add Database

Stop

Refresh

Delete

Feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

> Data

> Settings

> Security + networking

> Monitoring

> Automation

> Help

Essentials

JSON View

Resource group (move) : [synapse-rg](#)

Location : South Central US

Subscription (move) : [X Labs-443](#)

Subscription ID : 8b127a8f-4348-4b51-bcd7-5d545f04f060

workspace : [synapse-wsharn](#)

See more

State : Running

URI : <https://sharnpool.synapse-wsharn.kusto.azure-synapse.net>

Data Ingestion URI : <https://ingest-sharnpool.synapse-wsharn.kusto.azure-synapse.net>

Workload : Compute optimized

Size : Extra Small

Databases from A-Z

See all

Database	Size	Retention period	Cache period	Database kind	Shared with others
iot-data	1.93 KB	365 days	31 days	Read-Write	No

Show data for the past:

1 hour

6 hours

12 hours

1 day

7 days

30 days

Learn more about Azure Data Explorer metrics

CPU

40%

Cache utilization factor

100%

1

Search

File Explorer

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Deleting cluster in progress
Deleting cluster 'synapse-wsharn/sharnpool'...