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**BATCH: DATA ENGINEERING**

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**TOPIC: AZURE SYNAPSE**

## **What is Azure Synapse Analytics?**

Azure Synapse Analytics is an enterprise analytics service that accelerates time to insight across data warehouses and big data systems. It brings together the best of SQL technologies used in enterprise data warehousing, Apache Spark technologies for big data, and Azure Data Explorer for log and time series analytics.

# Azure Synapse - SQL Analytics

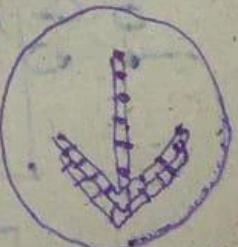
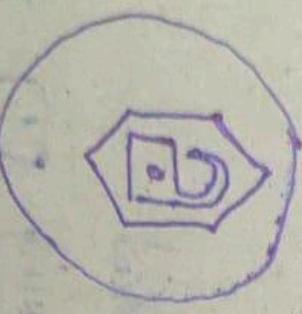
Best in class  
Price performance

Industry leading  
Security

Workload aware query  
execution

Data  
Flexibility

Developed  
Productivity



upto 94% less  
expensive than  
competitors

Defense in depth  
Security 99.9%

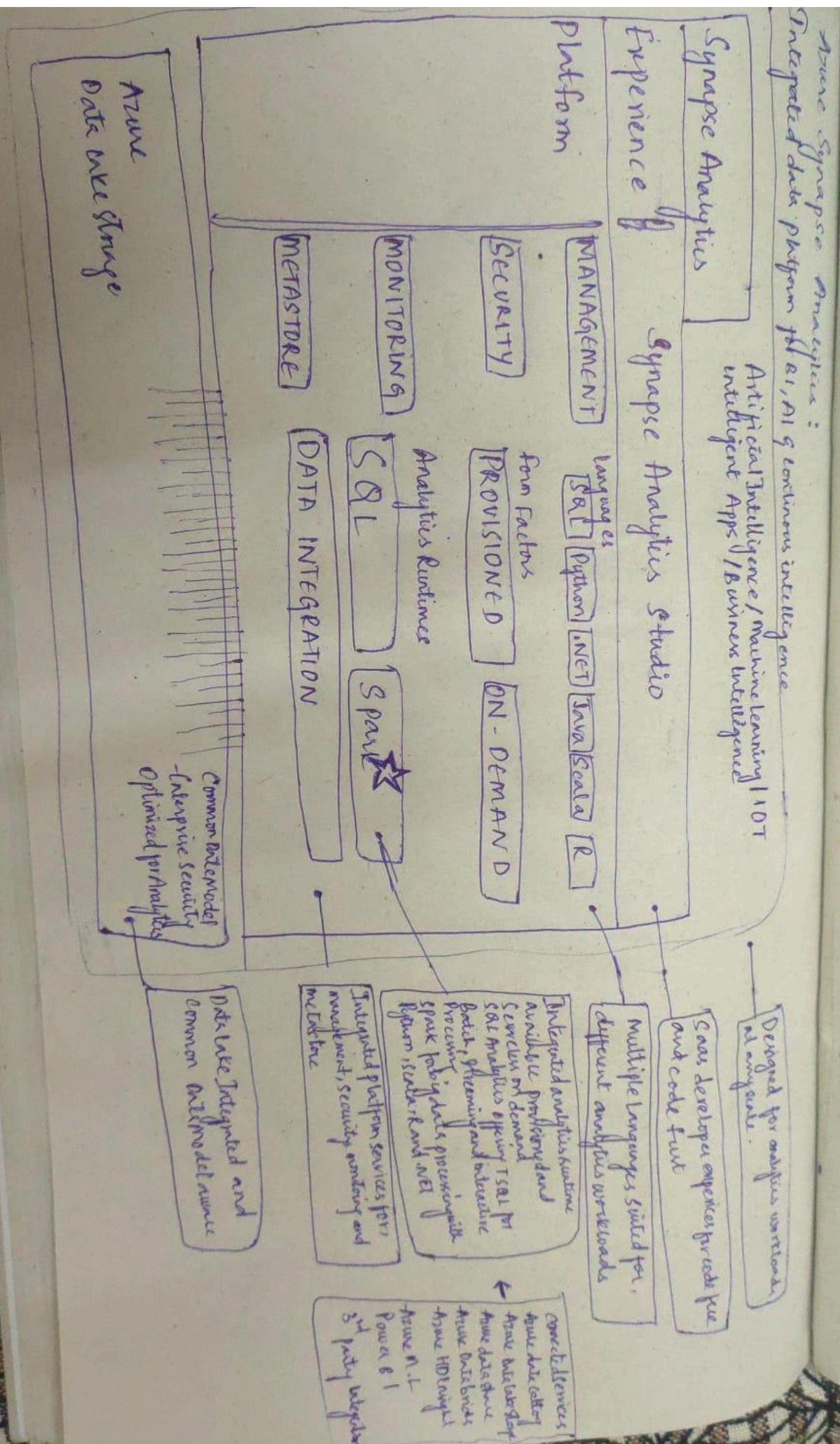
Manage heterogenous  
workloads through  
workload prioritizers

Ingest variety of  
data sources to  
derive the max.  
development  
benefit

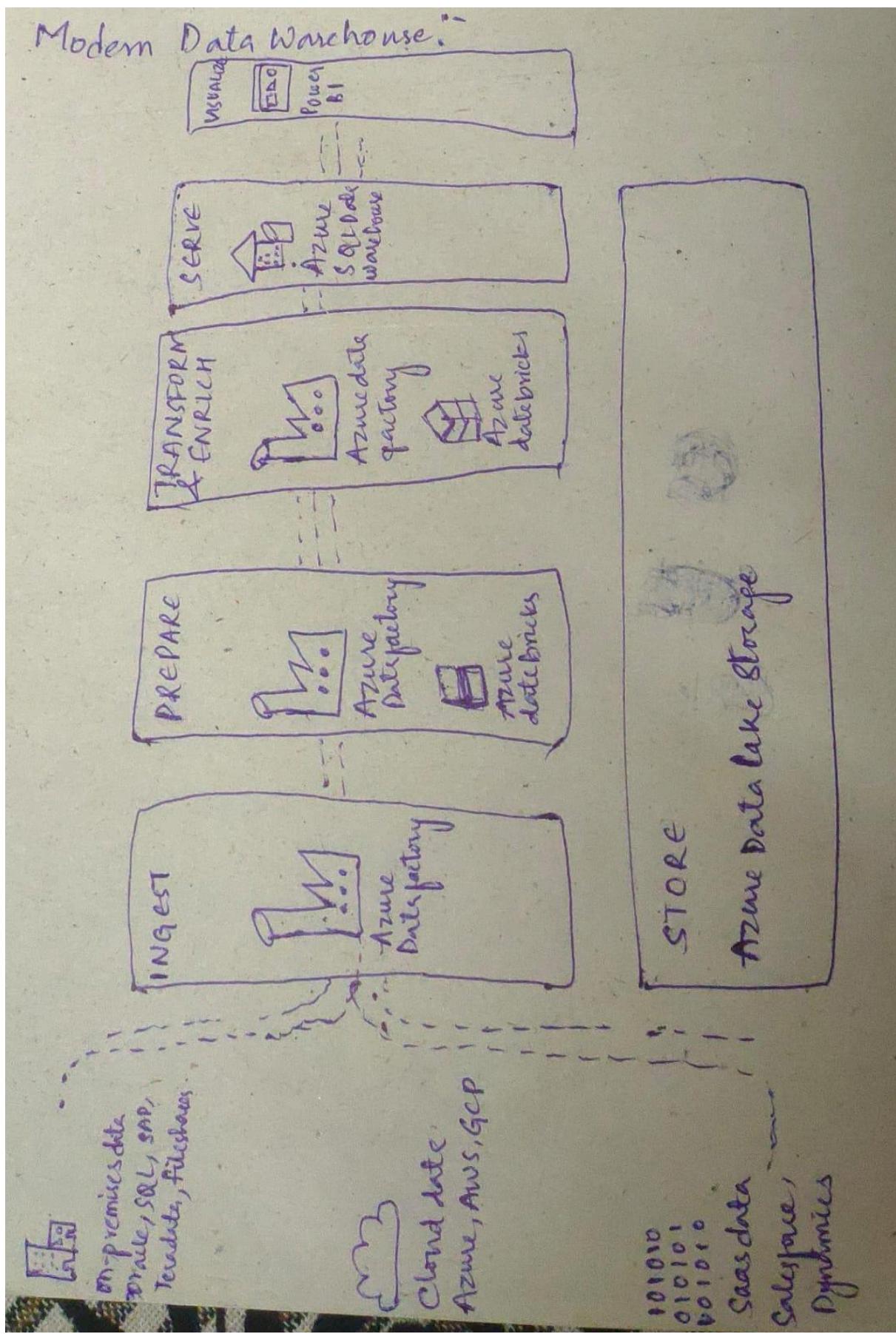
Query all data

## **Features of Azure Synapse:**

- 1) Limitless scale to rapidly deliver insights from all your data across data warehouses and big data analytics systems .
- 2) Powerful insights uncovered from all your data transformed with machine learning models to enhance your intelligent apps.
- 3) Unified experience for developing end-to-end analytics solutions to significantly reduce project development time.
- 4) The most advanced security and privacy features on the market, including column- and row-level security and dynamic data masking.



# Modern Data Warehouse:

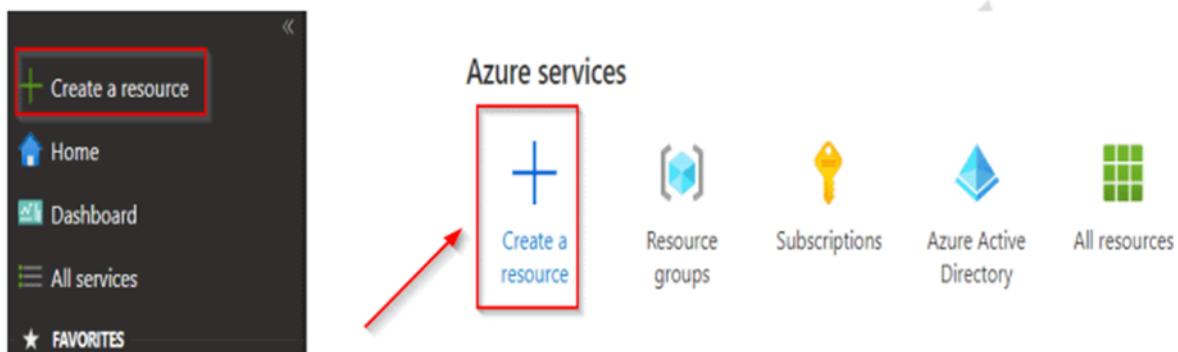


# Steps To Create An Azure Synapse Analytics Instance Using Azure Portal

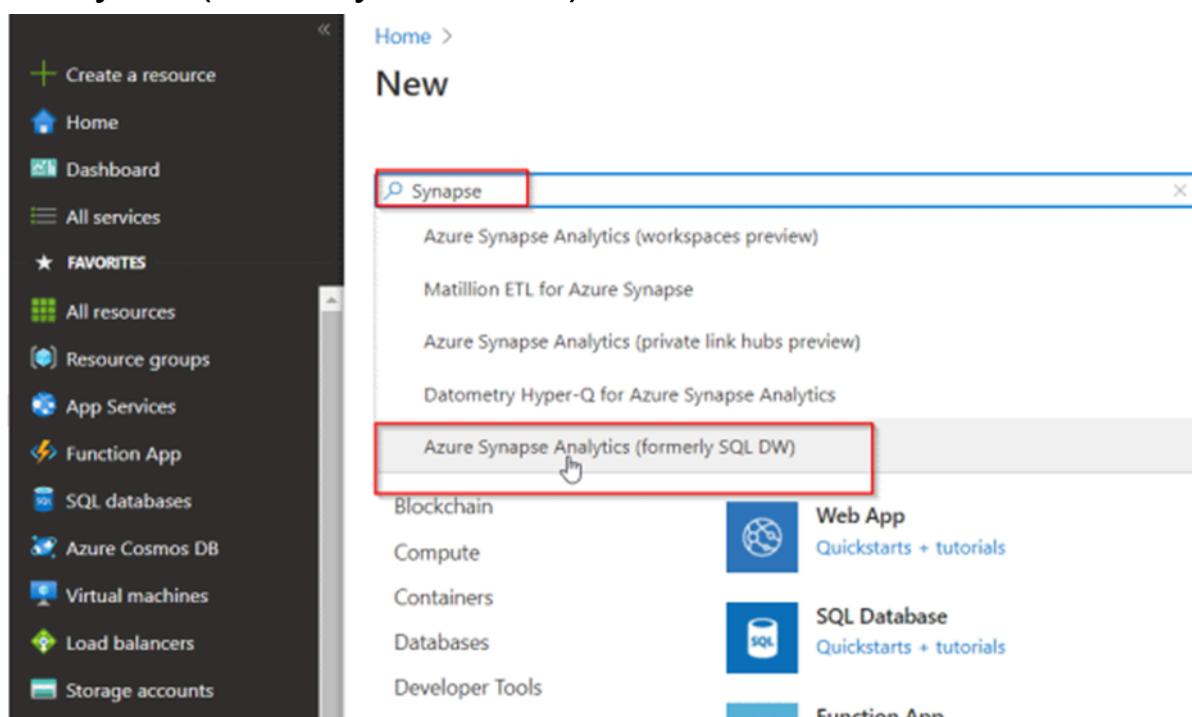
**Prerequisites:** Create an Azure Free Trial Account. You can also refer to our blog on how to create an Azure Free Trial account.

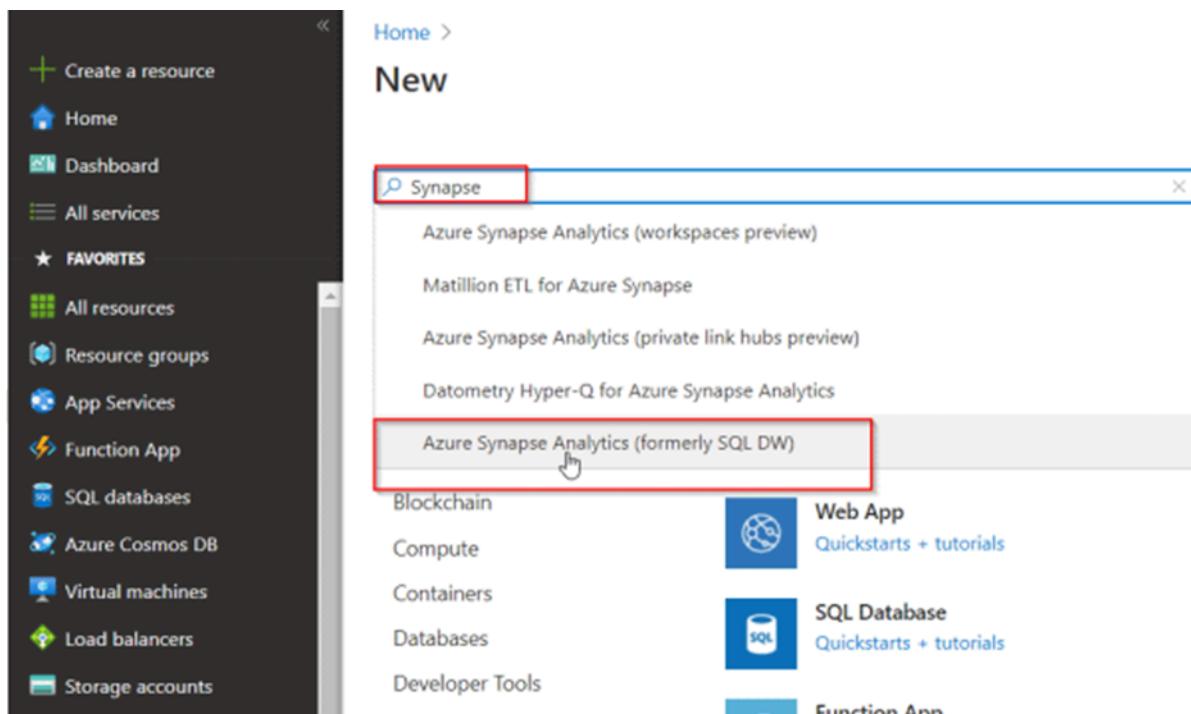
**Step 1:** Sign in to the Azure Portal.

**Step 2:** Click on the Create a Resource option to add a new resource.



**Step 3:** In the search bar type Synapse or Azure Synapse Analytics (formerly SQL DW) and click on Create.





**Step 4:** In the New Synapse Analytics screen (if you do not have an existing resource group, then you can create a new one), fill out the details, and then click on Create: After the account is deployed, you can click on Go to resource and start uploading data and performing queries on it. You can configure the server firewall by selecting the server from the resource group tab and clicking on the Firewalls and Virtual Network tab.

