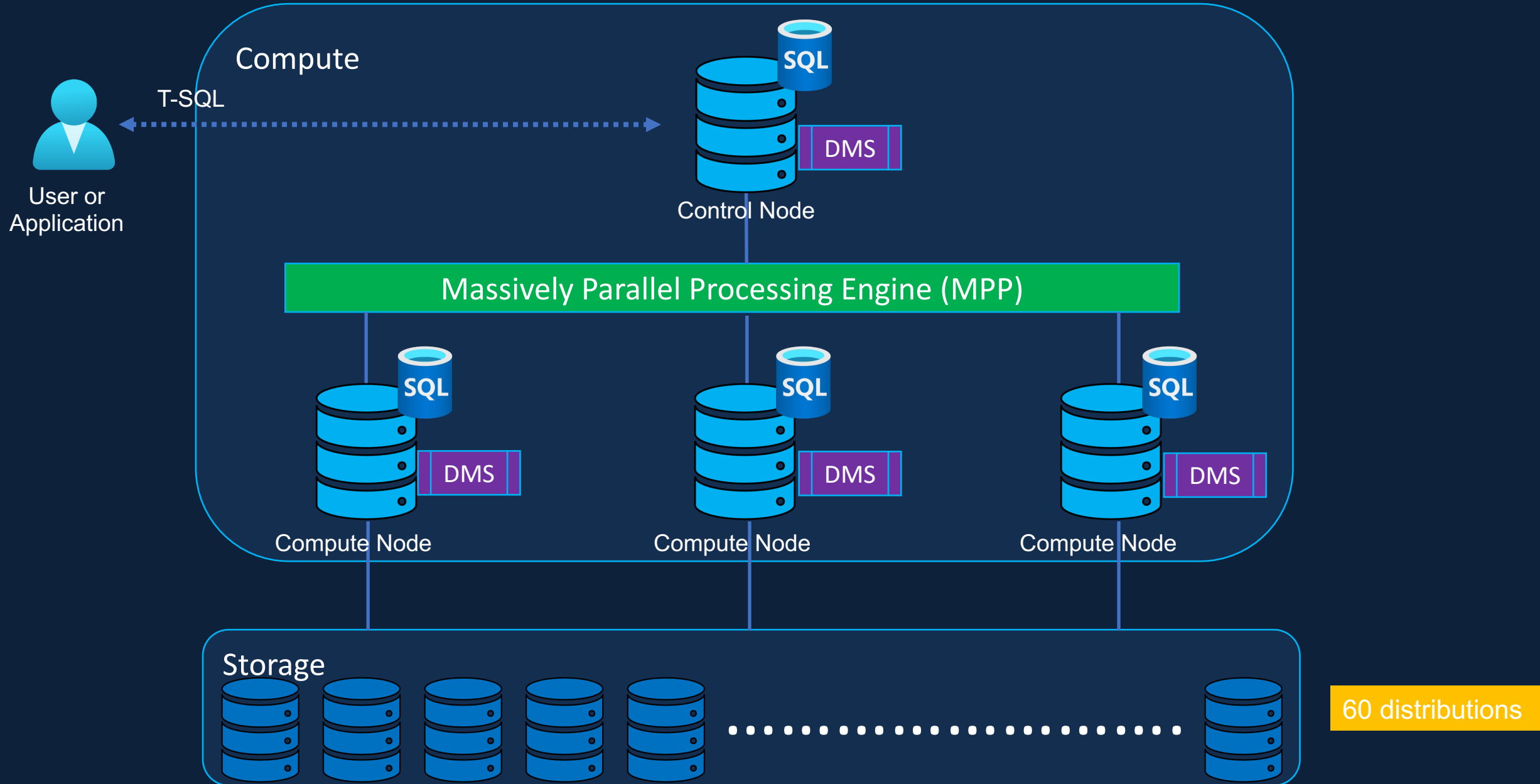


Dedicated SQL Pool

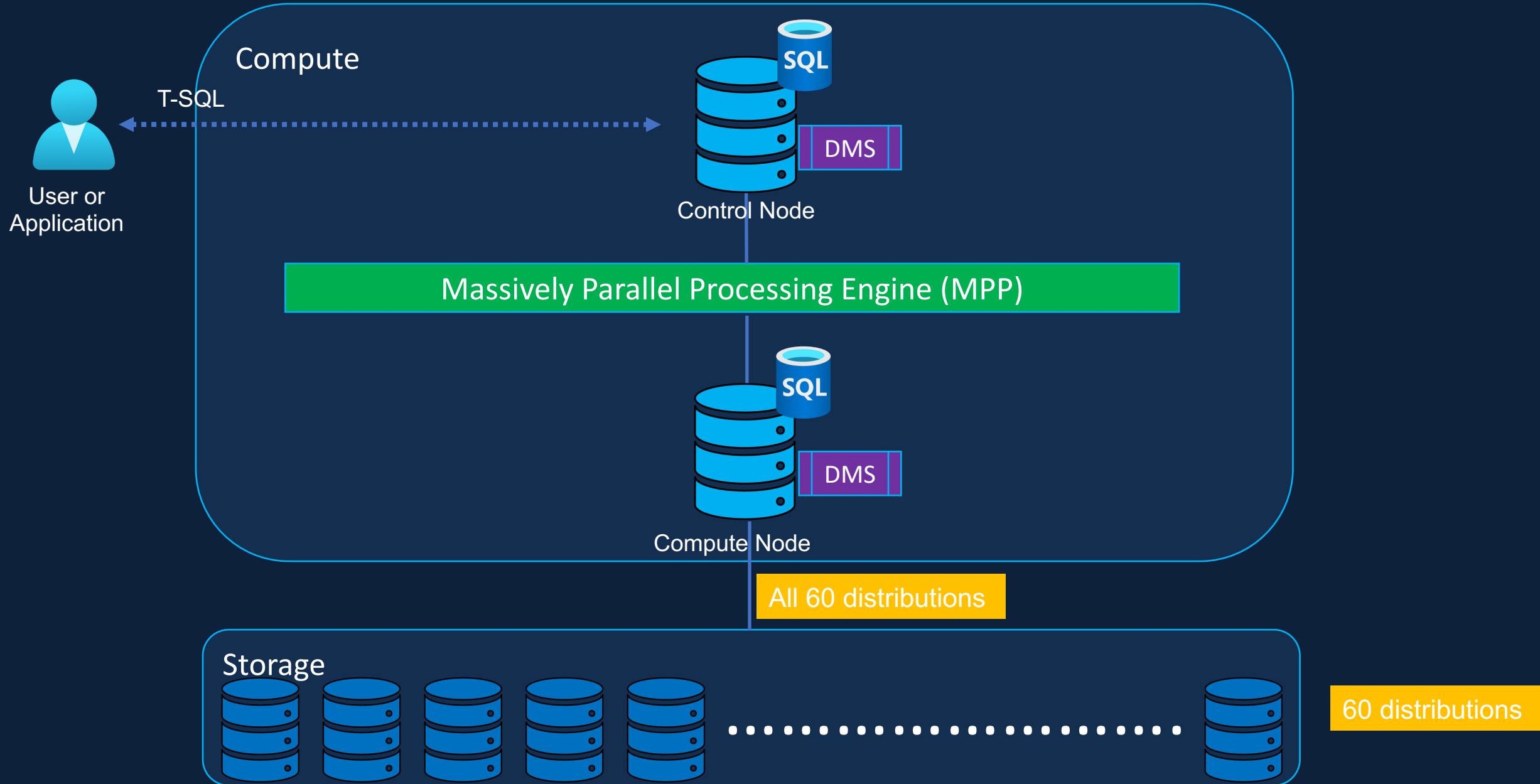


Dedicated SQL pool (formerly SQL DW) is a distributed query engine that you can use to perform high performance big data analytics using T-SQL.

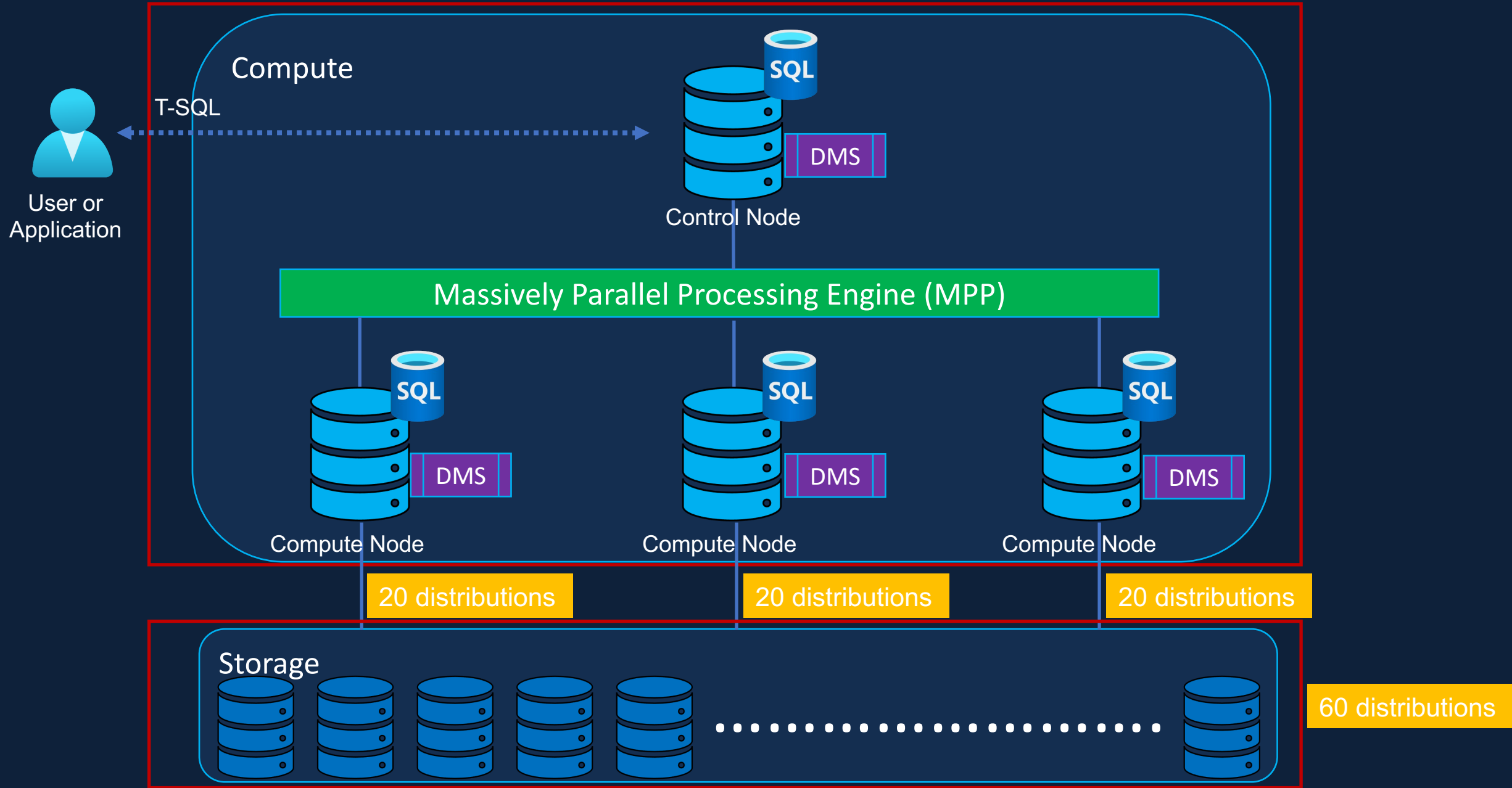
Dedicated SQL Pool - Architecture



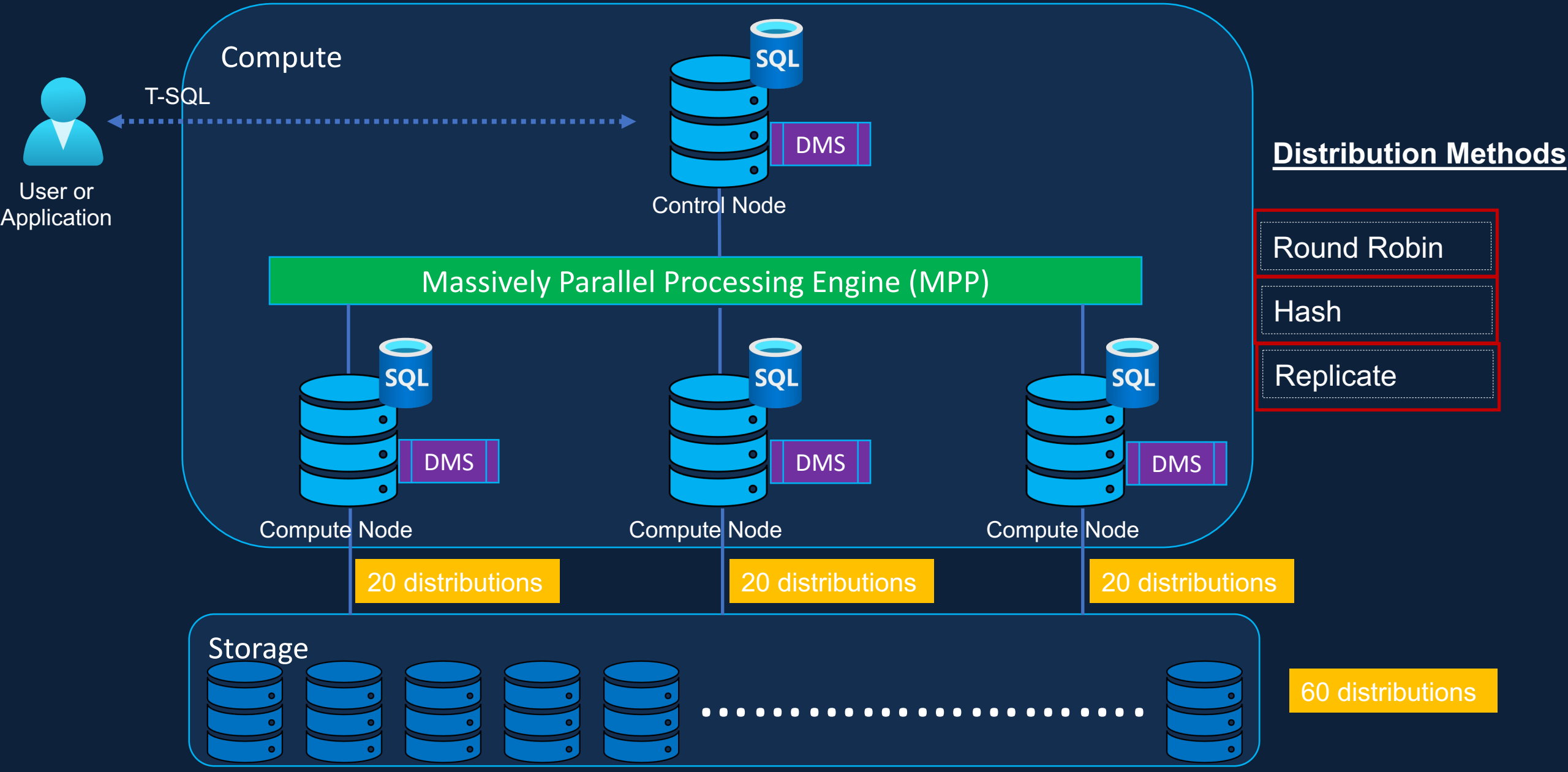
Dedicated SQL Pool - Architecture



Dedicated SQL Pool - Architecture



Dedicated SQL Pool - Architecture



Dedicated SQL Pool – Use Cases



Traditional Data Warehouses (Facts/ Dims)

Larger Data Warehouses (Greater than 1TB)

Instant response times

Predictable Performance

Dedicated SQL Pool – Price & Performance



Based on Data Warehouse Units (DWUs)

DWU relates to CPU, memory, and IO

Dedicated SQL Pool - DWU

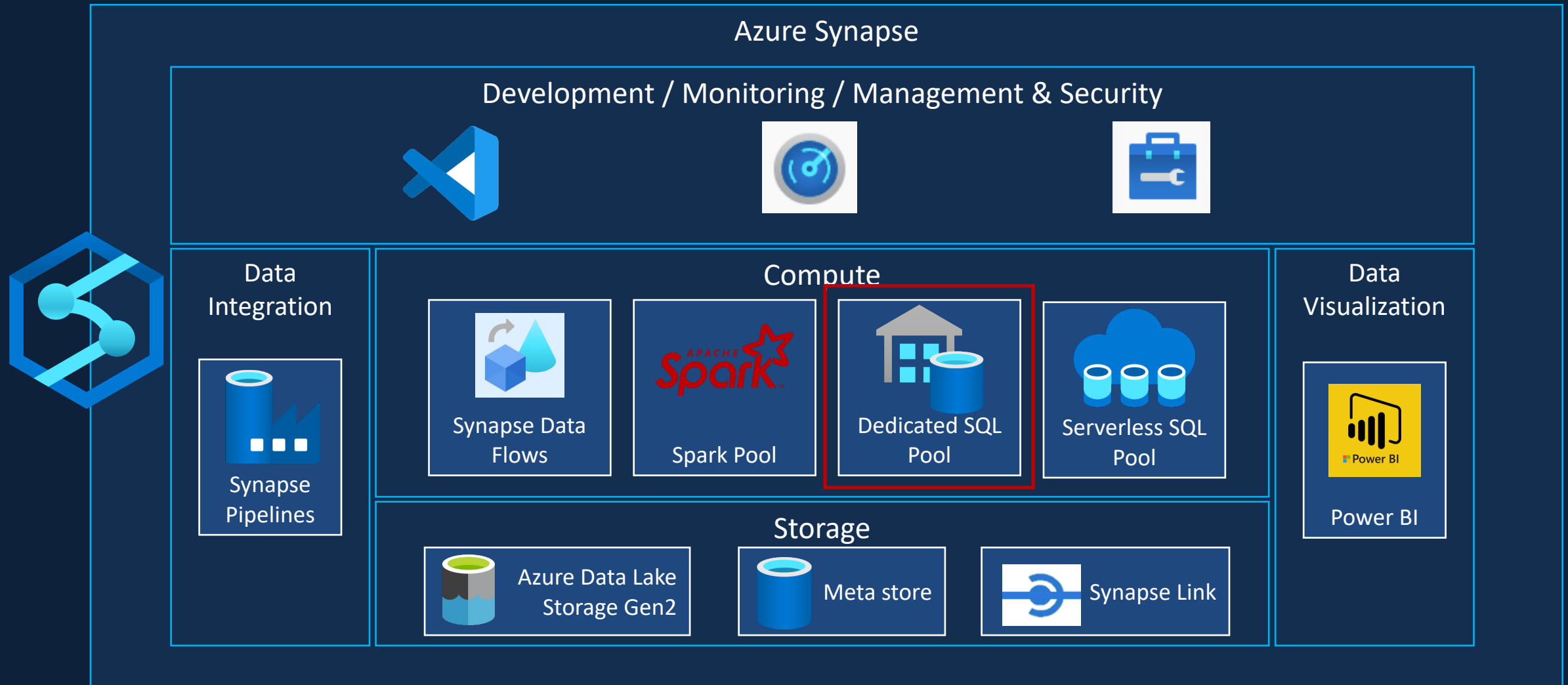


Performance level (DWU)	Compute nodes	Distributions per Compute node	Memory per data warehouse (GB)
DW100c	1	60	60
DW200c	1	60	120
DW300c	1	60	180
DW400c	1	60	240
DW500c	1	60	300
DW1000c	2	30	600
DW1500c	3	20	900
DW2000c	4	15	1200
DW2500c	5	12	1500
DW3000c	6	10	1800
DW5000c	10	6	3000
DW6000c	12	5	3600
DW7500c	15	4	4500
DW10000c	20	3	6000
DW15000c	30	2	9000
DW30000c	60	1	18000

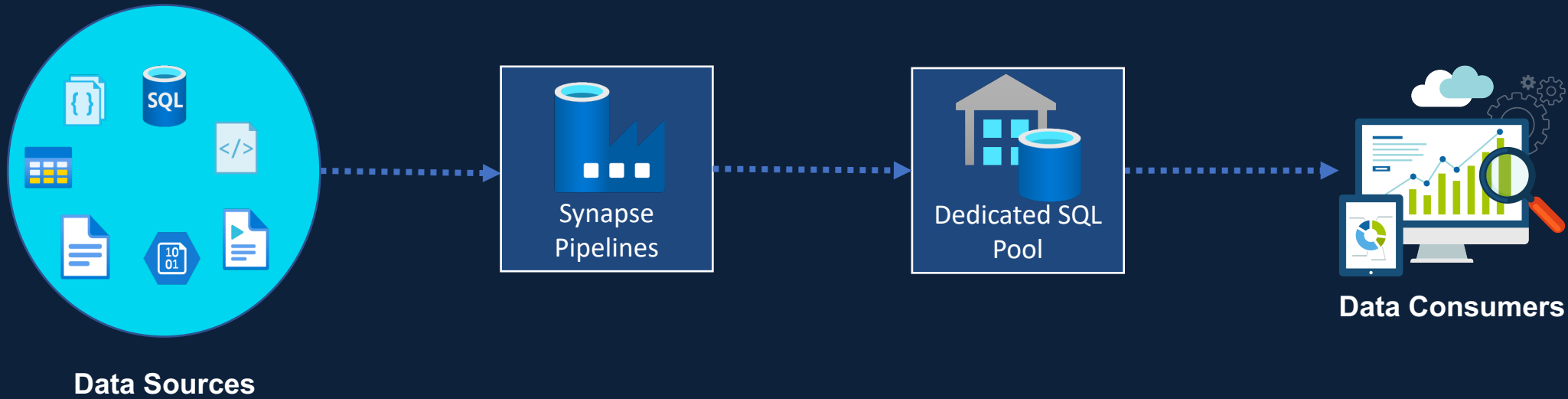
Synapse – Dedicated SQL Pool Use Cases



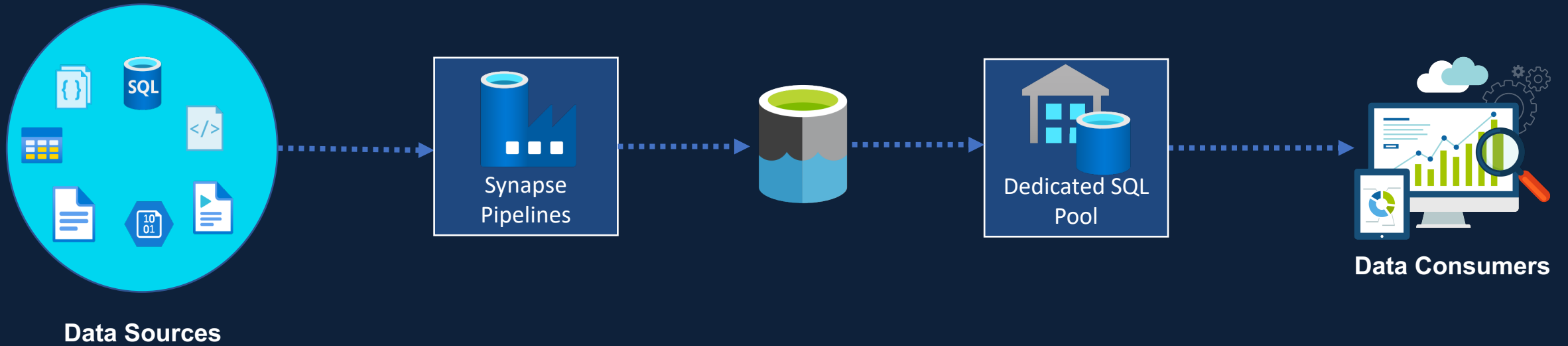
Synapse – Dedicated SQL Pool



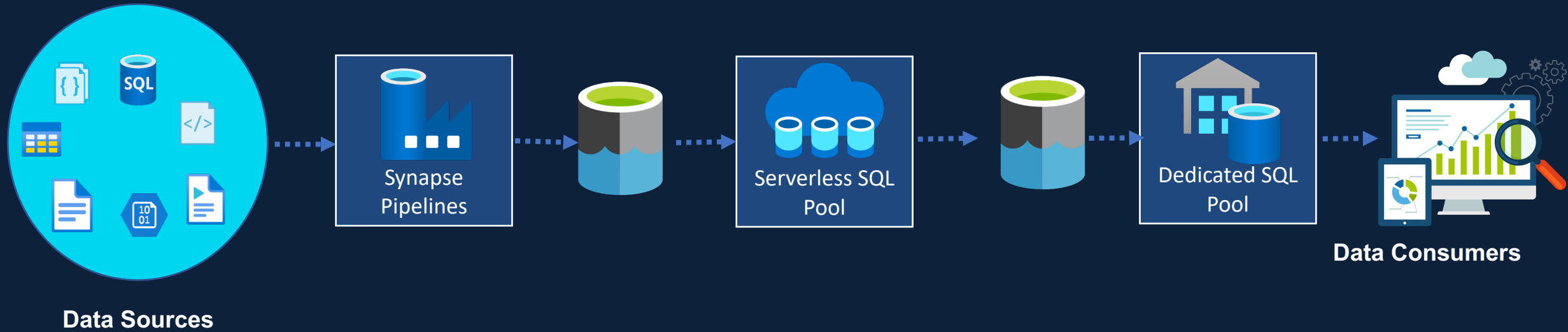
Azure Synapse Analytics



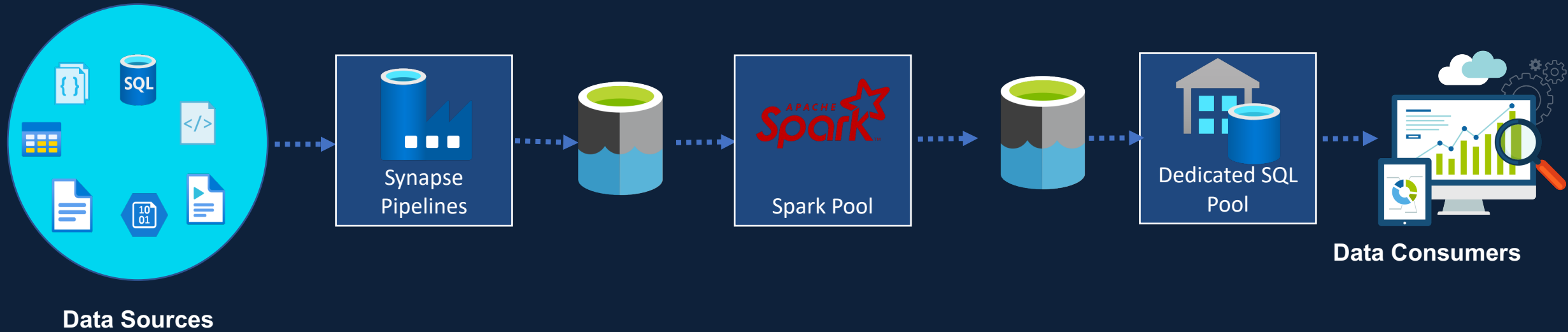
Azure Synapse Analytics



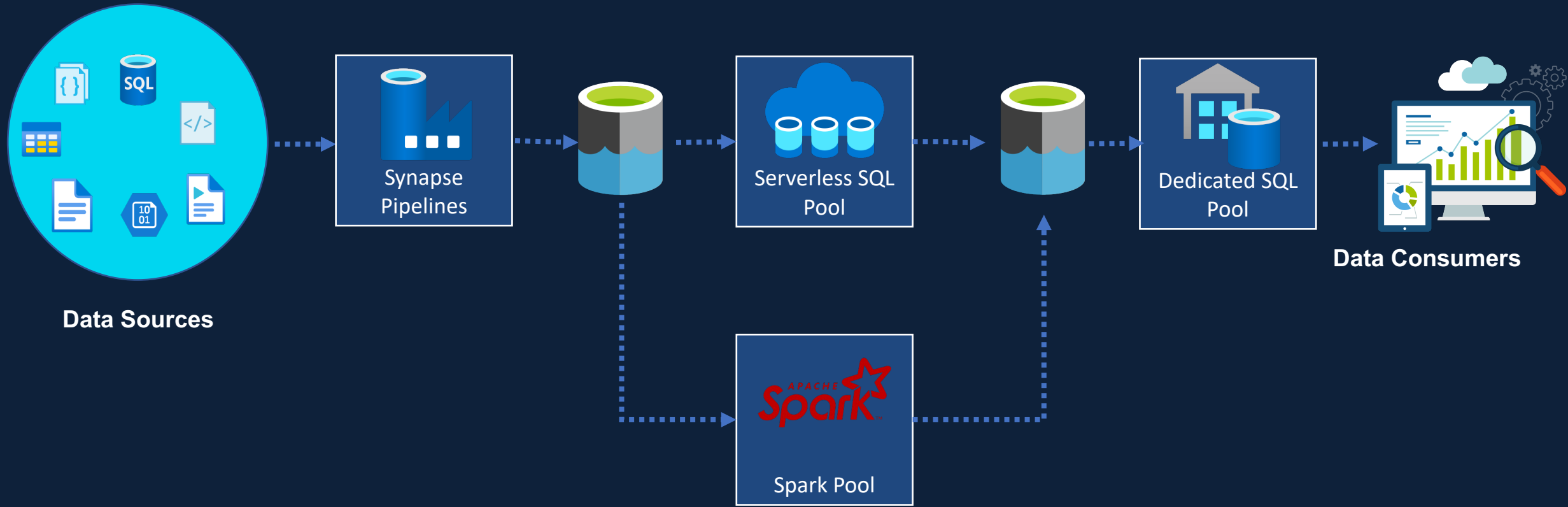
Azure Synapse Analytics



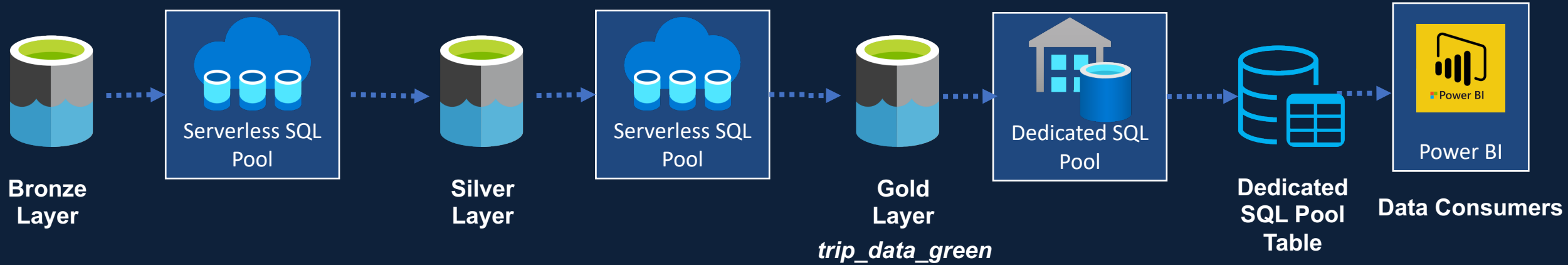
Azure Synapse Analytics



Azure Synapse Analytics



Requirement



Solution

