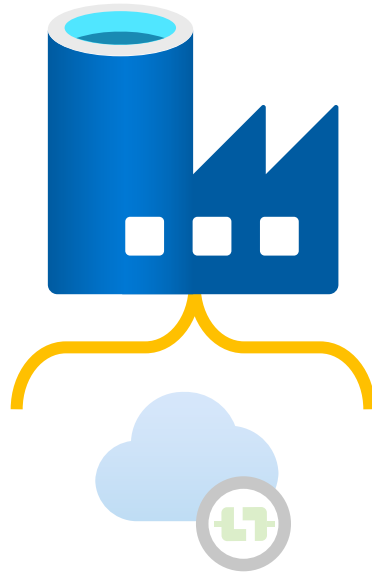


Module 3: Using SSIS Packages in Azure

- SSIS Integration Runtime
- Packages Running on PaaS
- Scaling Out Package Execution



Azure IR



Hosted IR



SSIS IR

Running an SSIS Package in Azure



SSIS IR

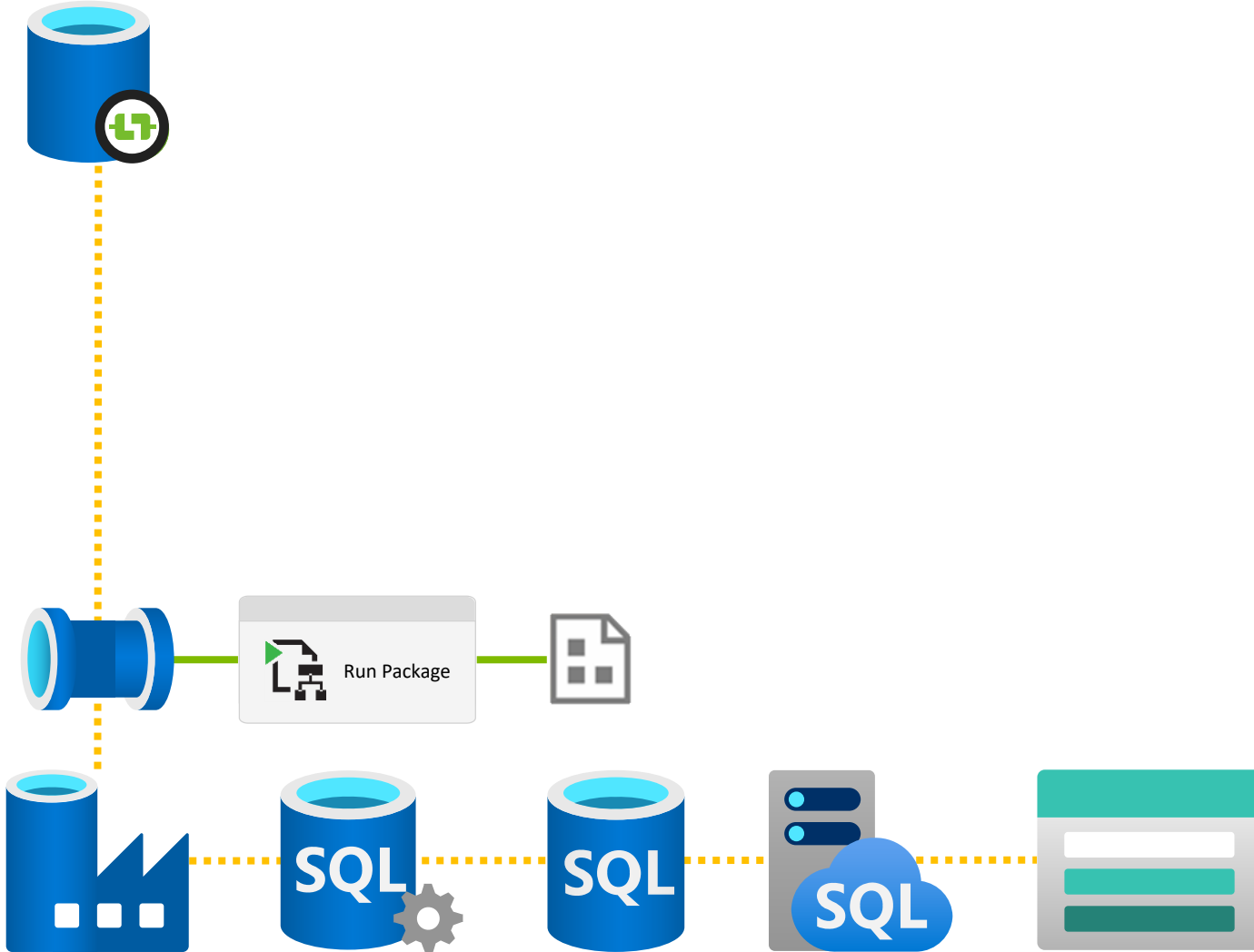
Running an SSIS Package in Azure

SSIS IR

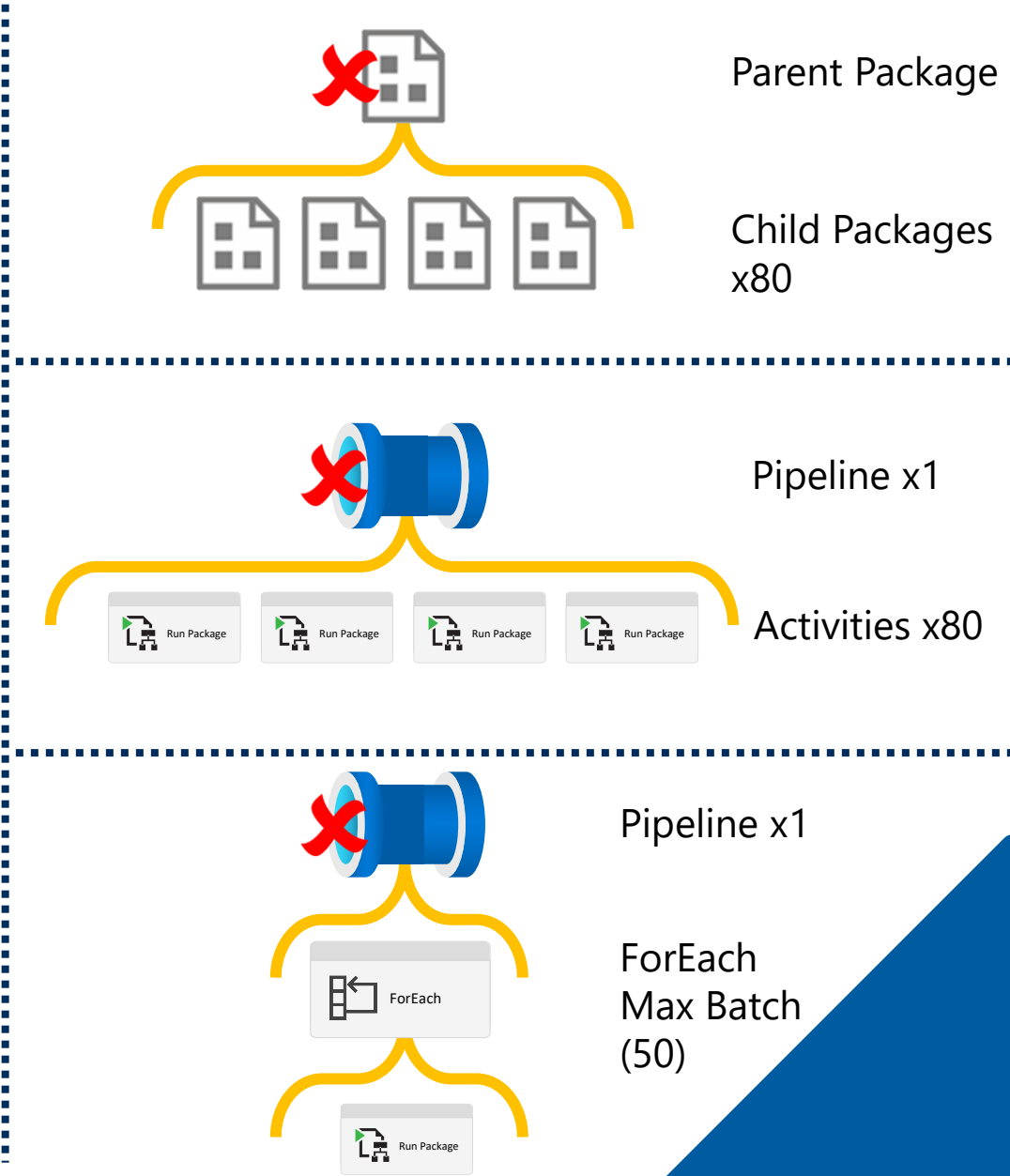
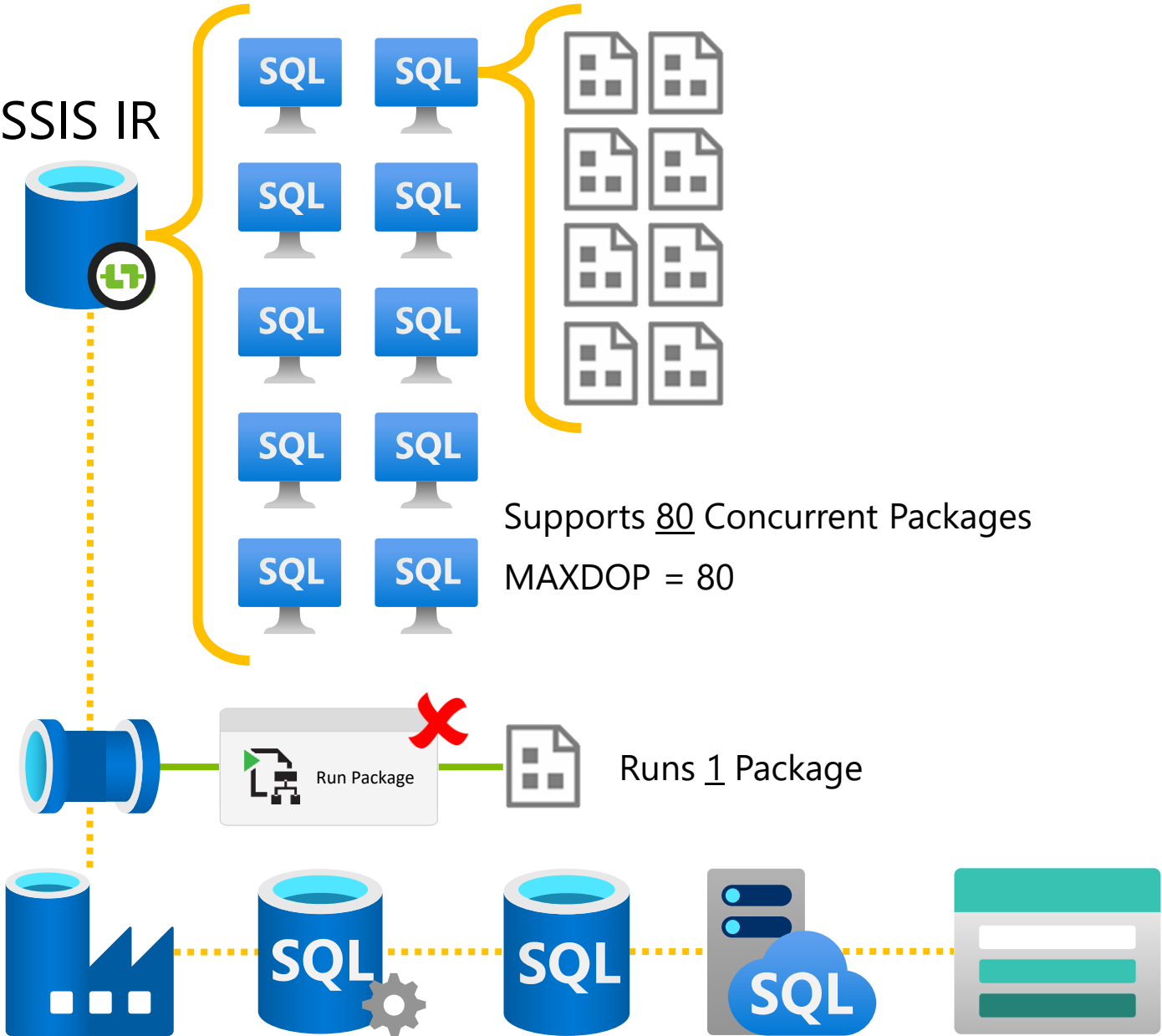


Running an SSIS Package in Azure

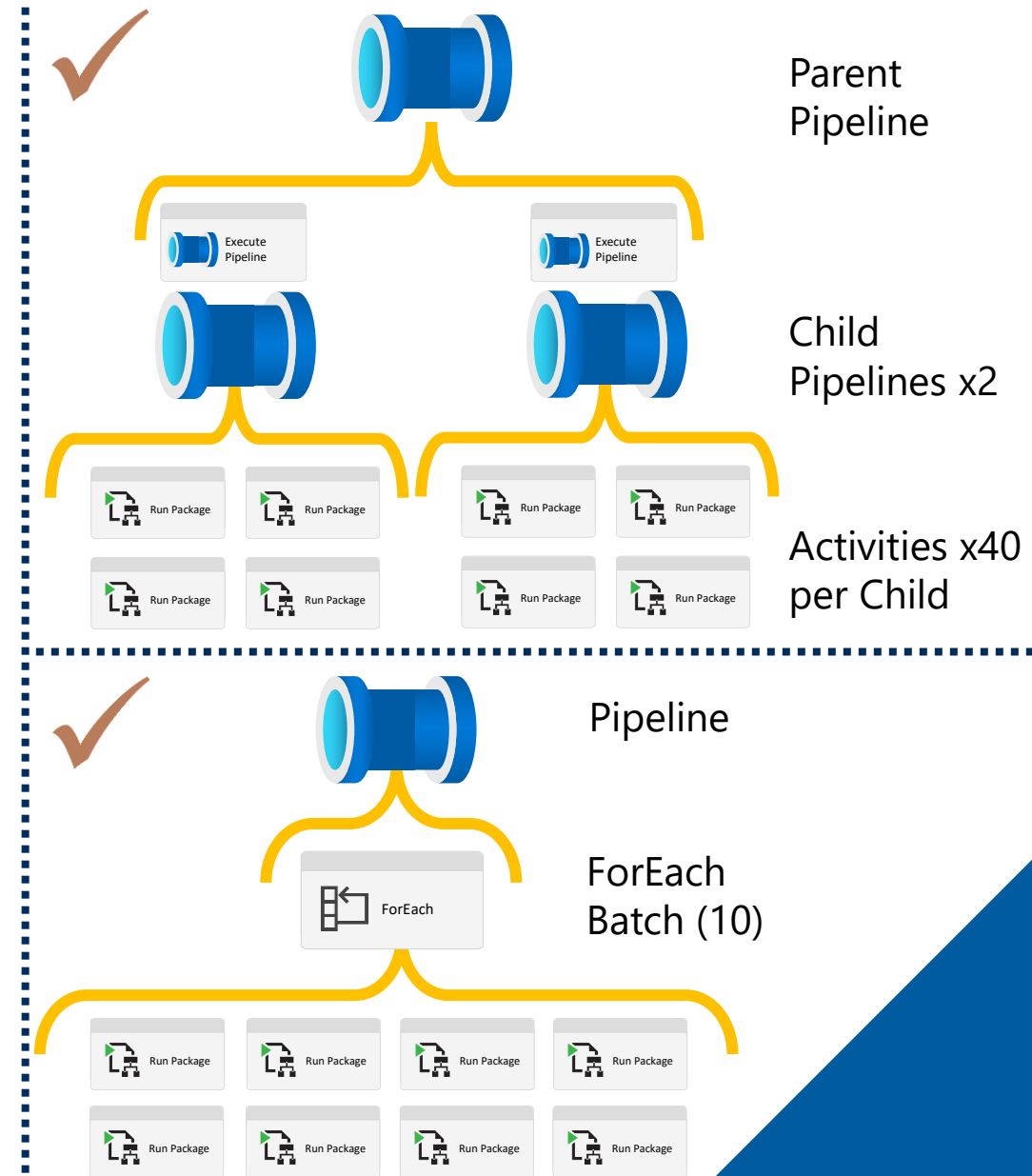
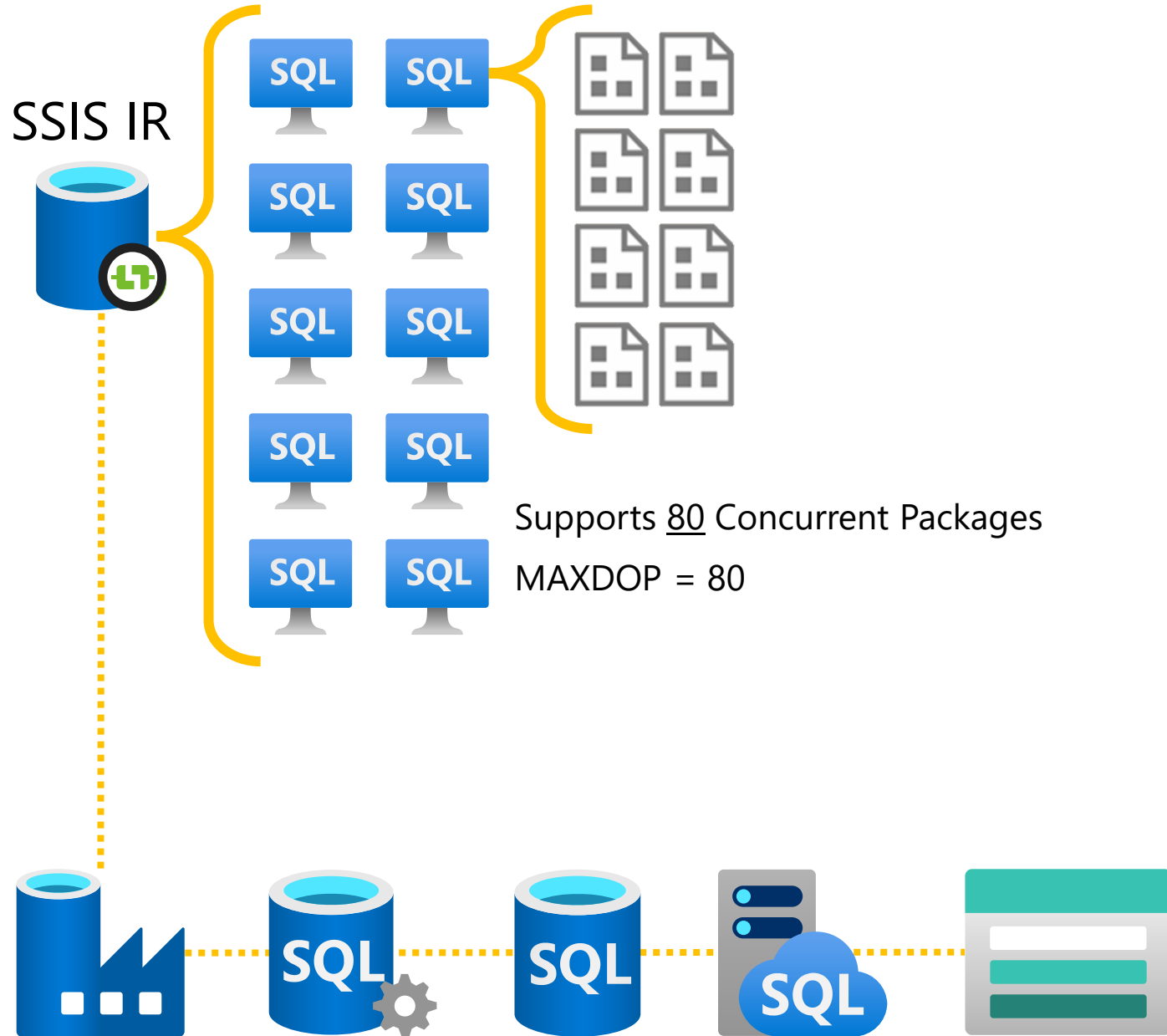
SSIS IR



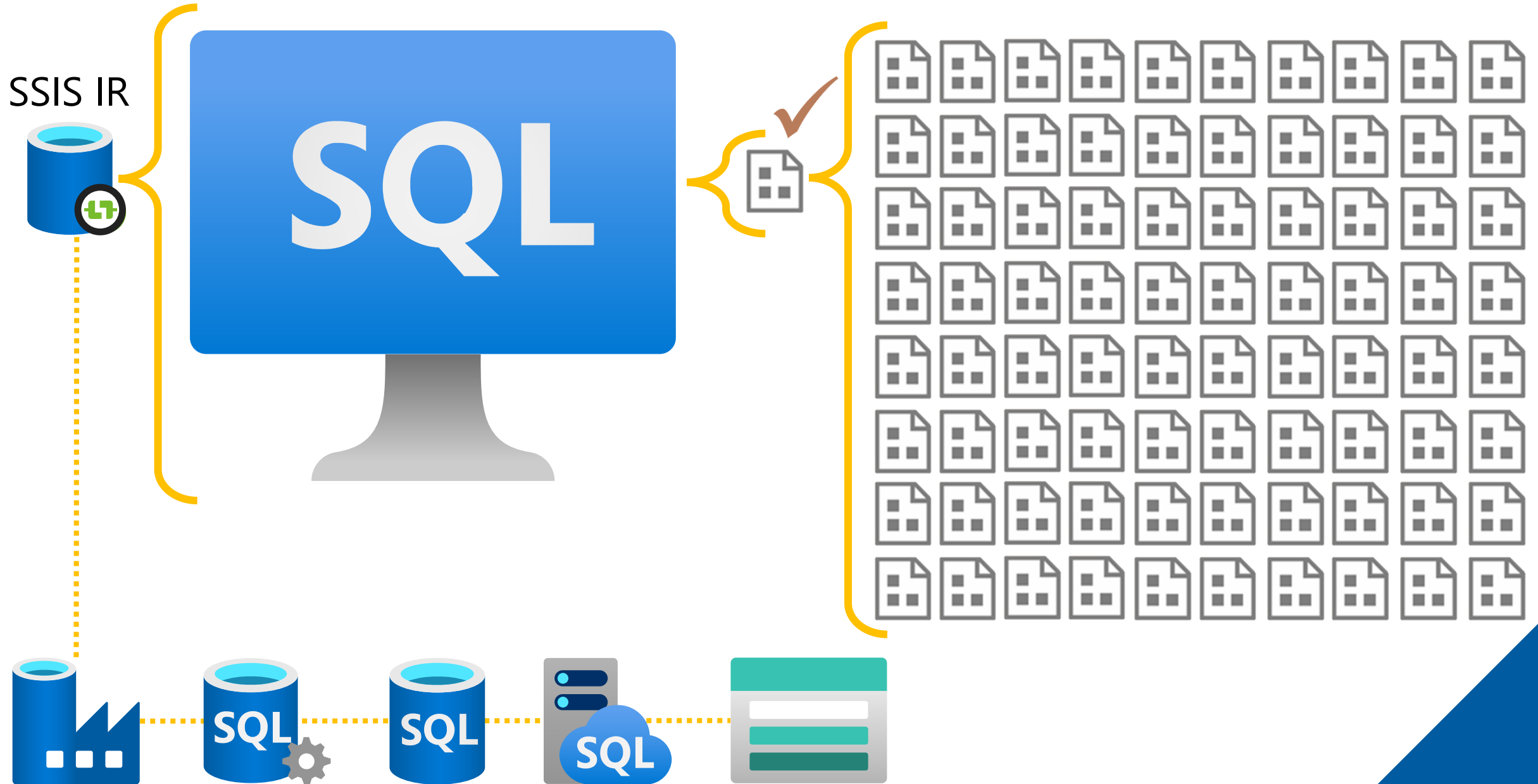
Problem: Using All Of The SSIS IR Compute



Solution 1 & 2: Static Pipelines



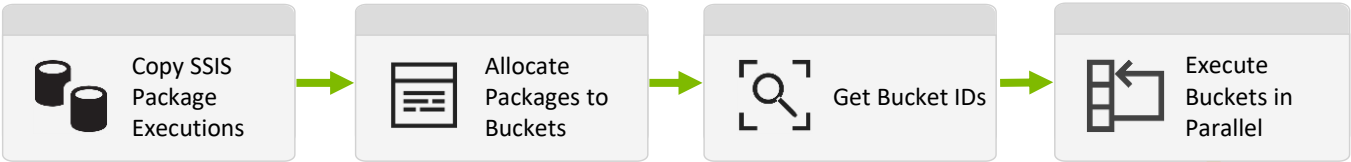
Solution 3: Packages Refactored on a Single Node IR



Solution 4: Nested ForEach Activities & Bucket Metadata

$(FE\ L1) \times (FE\ L2) = NEW\ MAXDOP$
 $50 \times 50 = 2500$ ✓

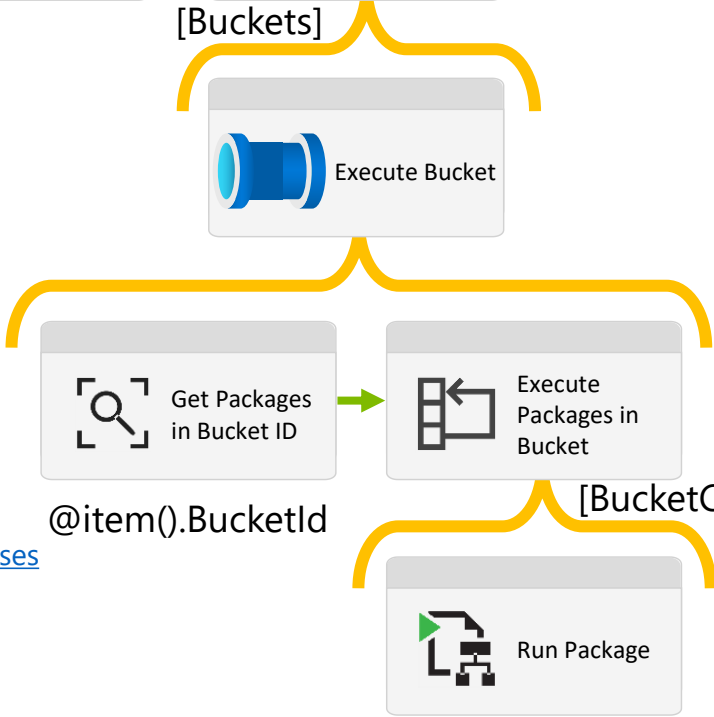
SSIS IR



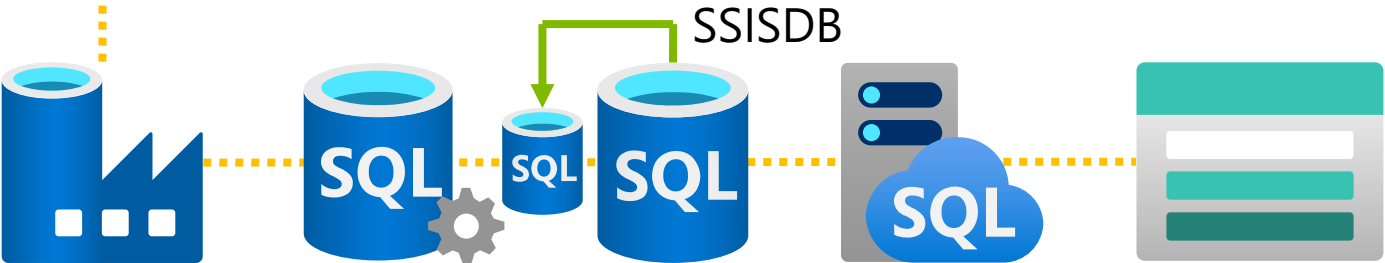
FE L1
MAXDOP 50

Compute size	S4	S6	S7	S9	S12
Max DTUs	200	400	800	1600	3000
Included storage (GB) ¹	250	250	250	250	250
Max storage (GB)	1024	1024	1024	1024	1024
Max in-memory OLTP storage (GB)	N/A	N/A	N/A	N/A	N/A
Max concurrent workers (requests)	400	800	1600	3200	6000
Max concurrent sessions	4800	9600	19200	30000	30000

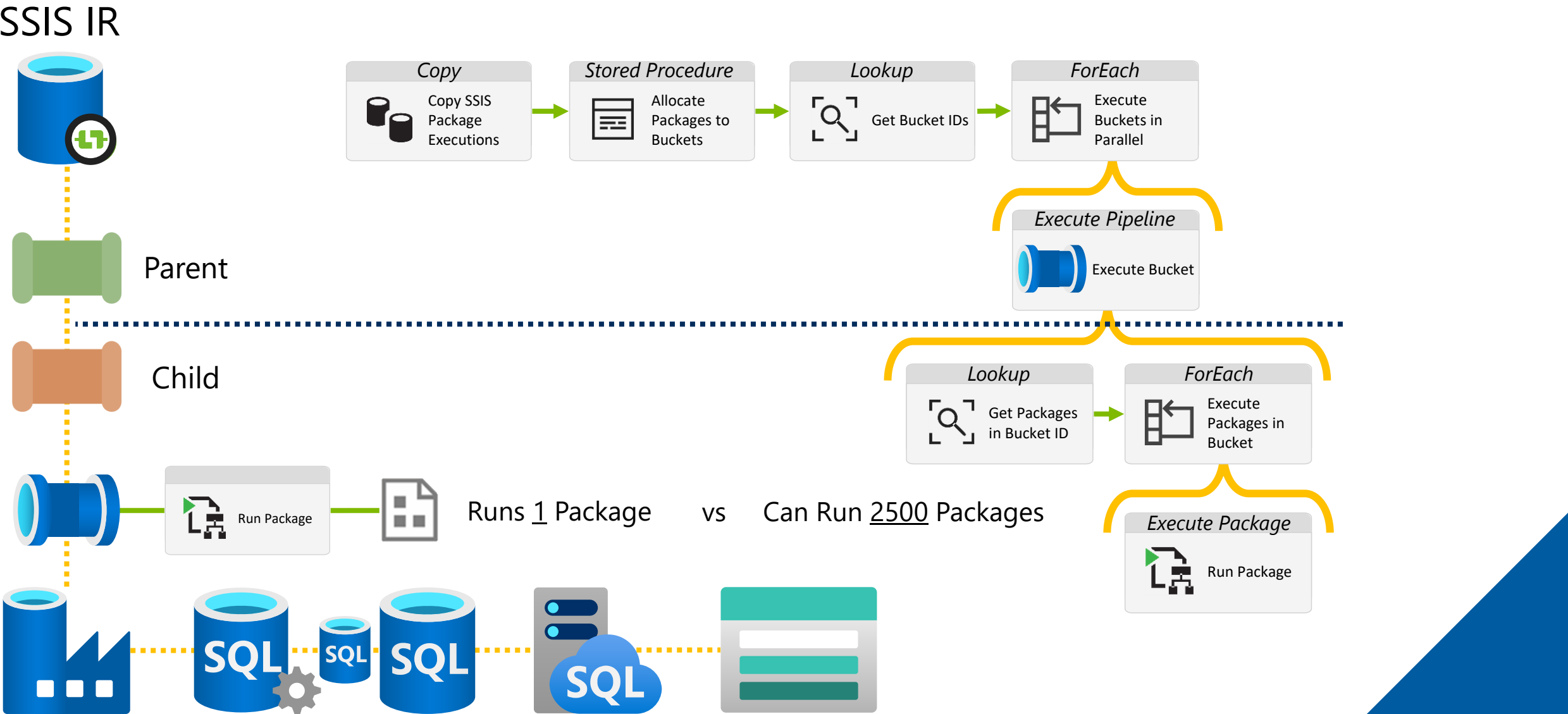
<https://docs.microsoft.com/en-us/azure/azure-sql/database/resource-limits-dtu-single-databases>



FE L2
MAXDOP 50



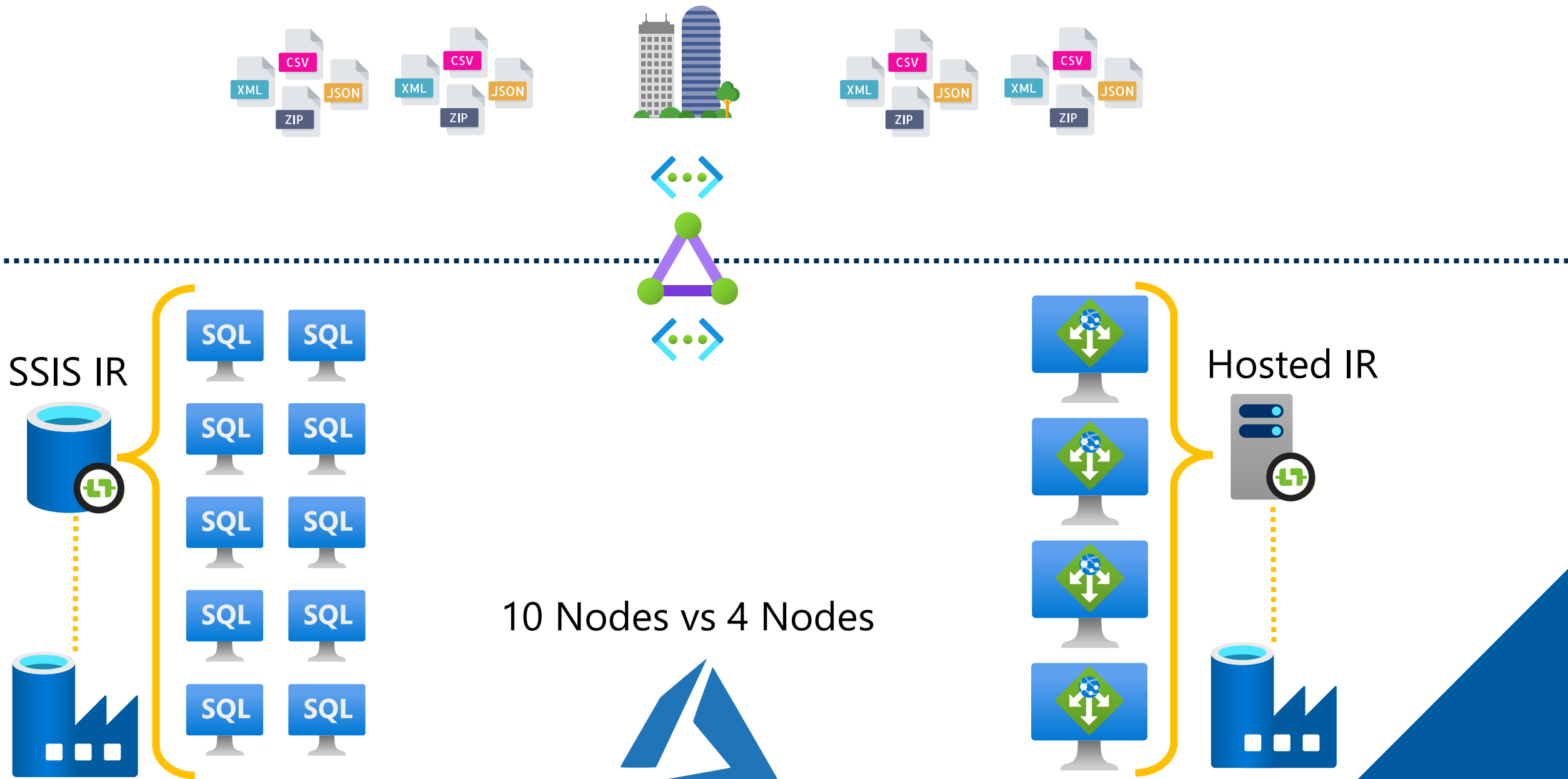
Solution 4: Nested ForEach Activities & Bucket Metadata



A blue cylinder with a light blue top ring. The word "DEMO" is written in white capital letters on the light blue ring.

DEMO

Using the SSIS IR vs the Hosted IR



Module 3:

Using SSIS Packages in Azure

SSIS Integration Runtime



Packages Running on PaaS



Scaling Out Package Execution

