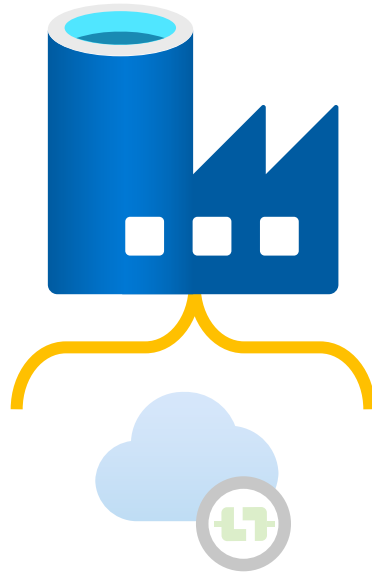


Module 3: Using SSIS Packages in Azure

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



Azure IR



Hosted IR



SSIS IR

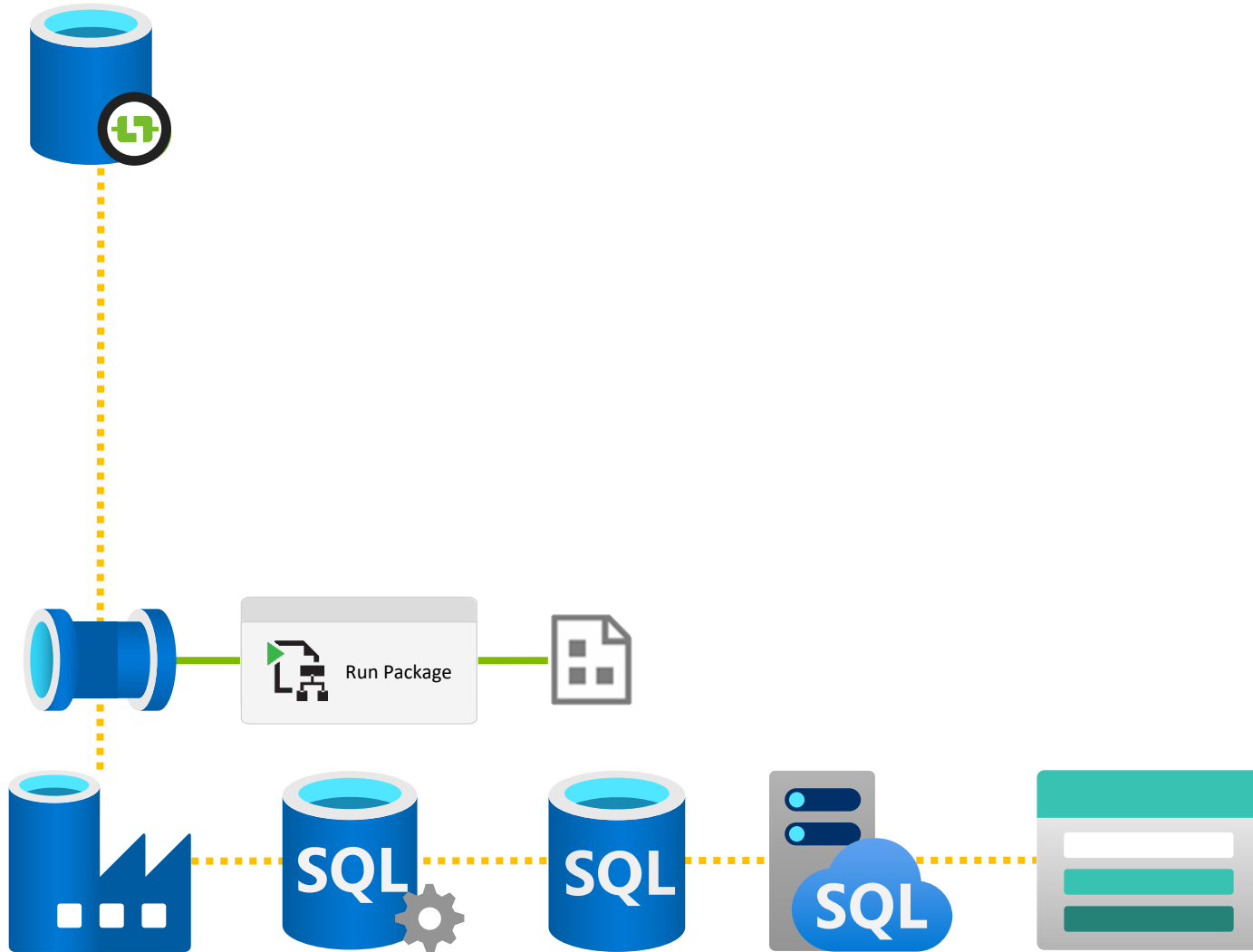
Running an SSIS Package in Azure



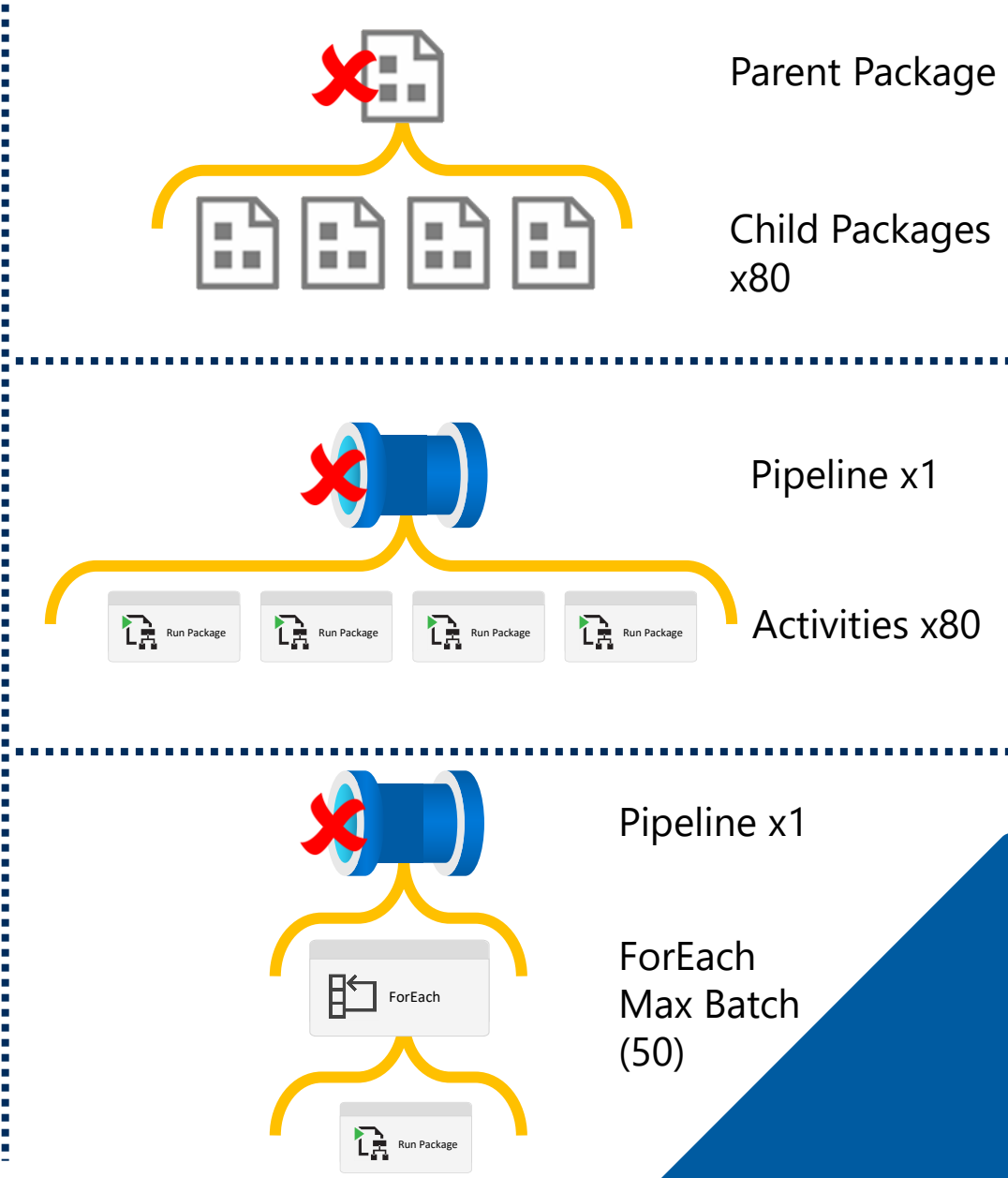
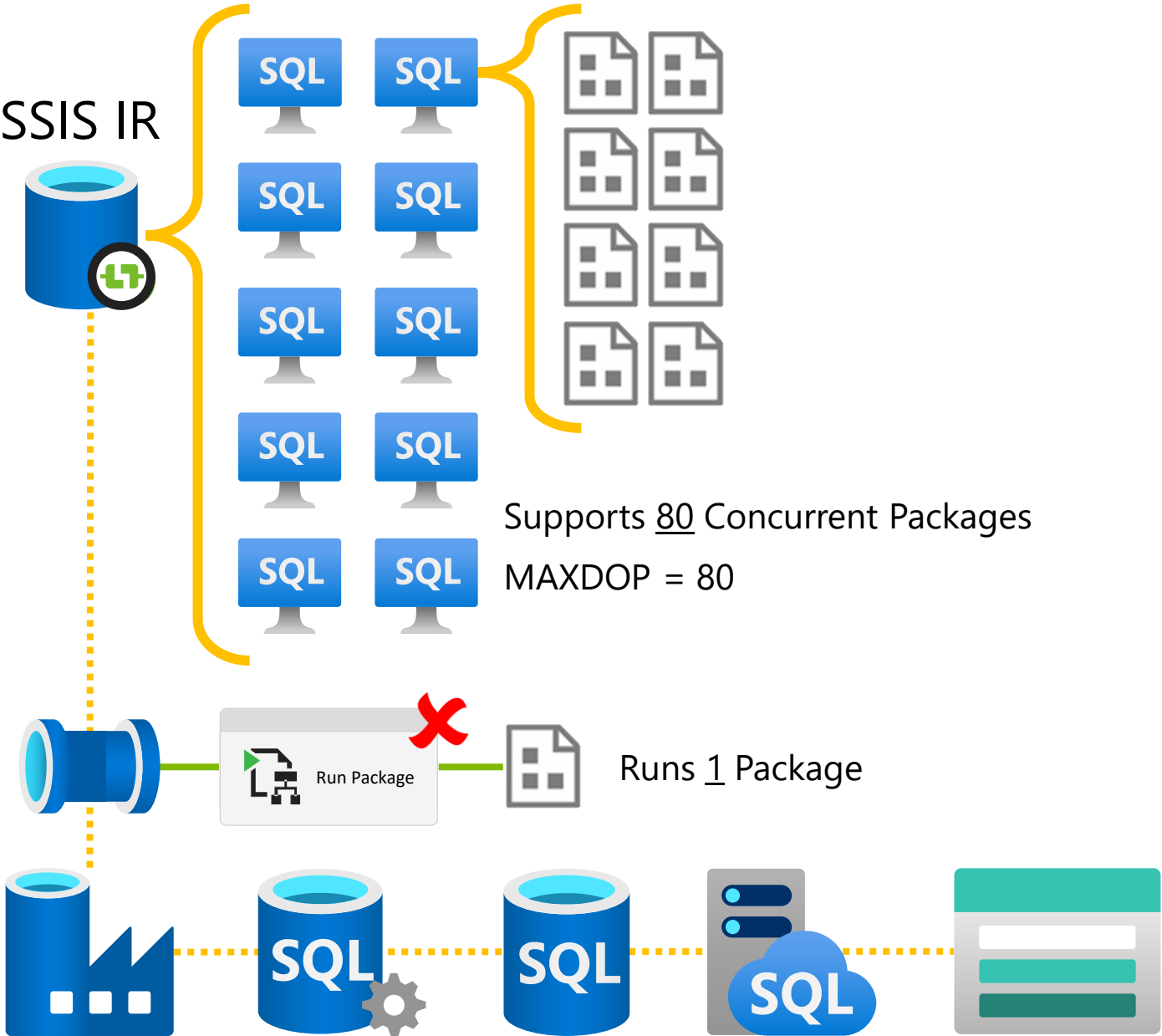
SSIS IR

Running an SSIS Package in Azure

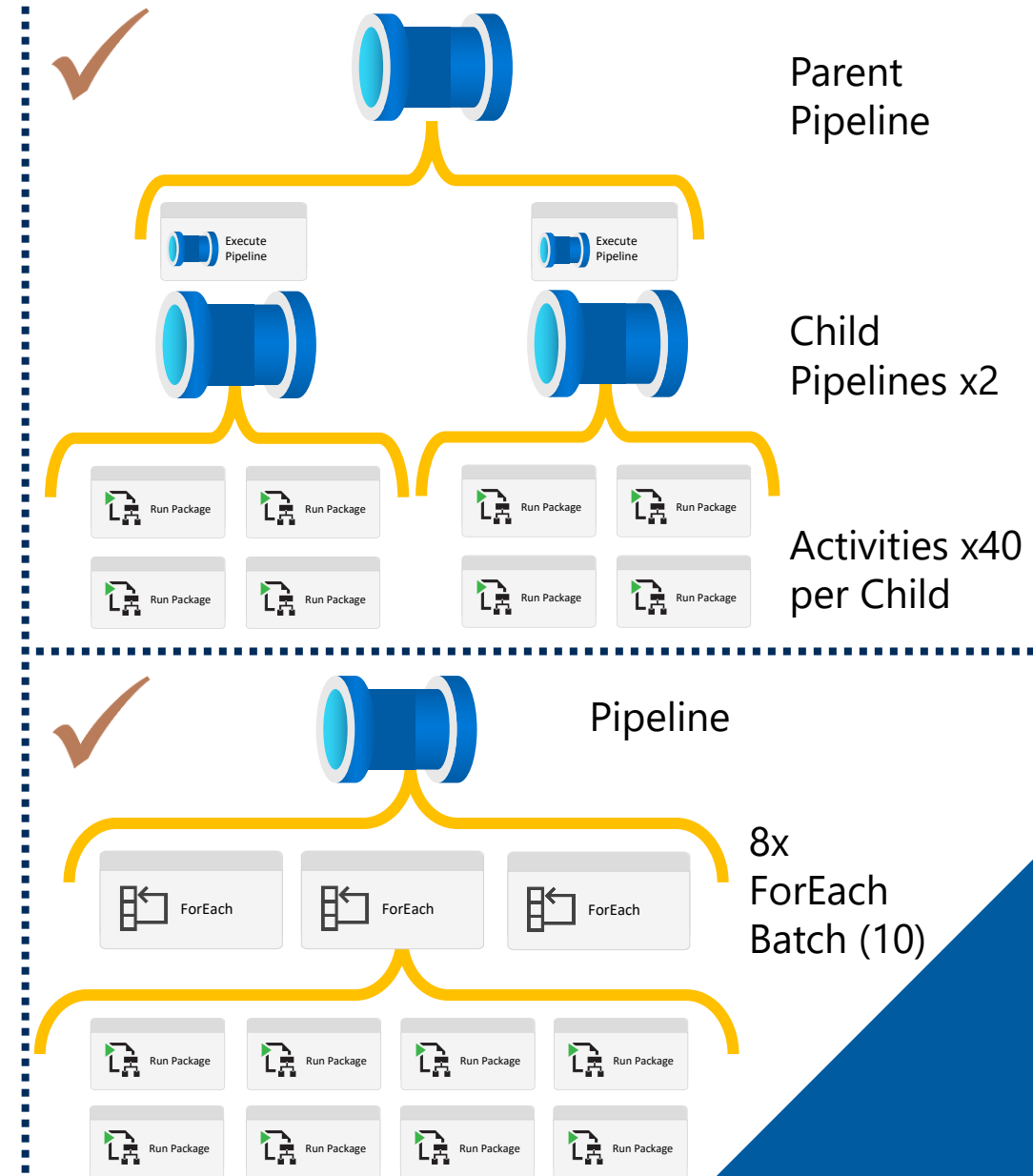
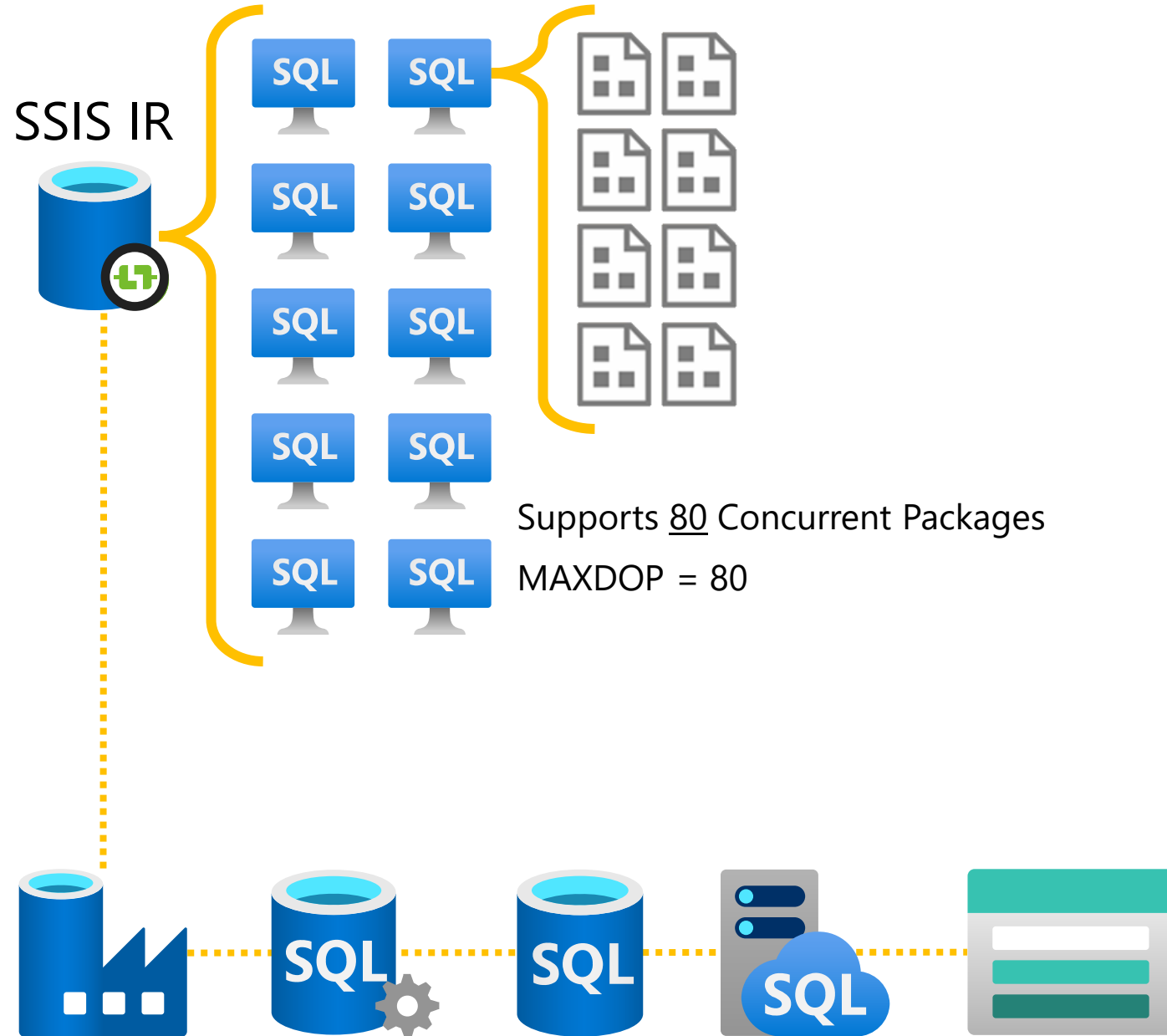
SSIS IR



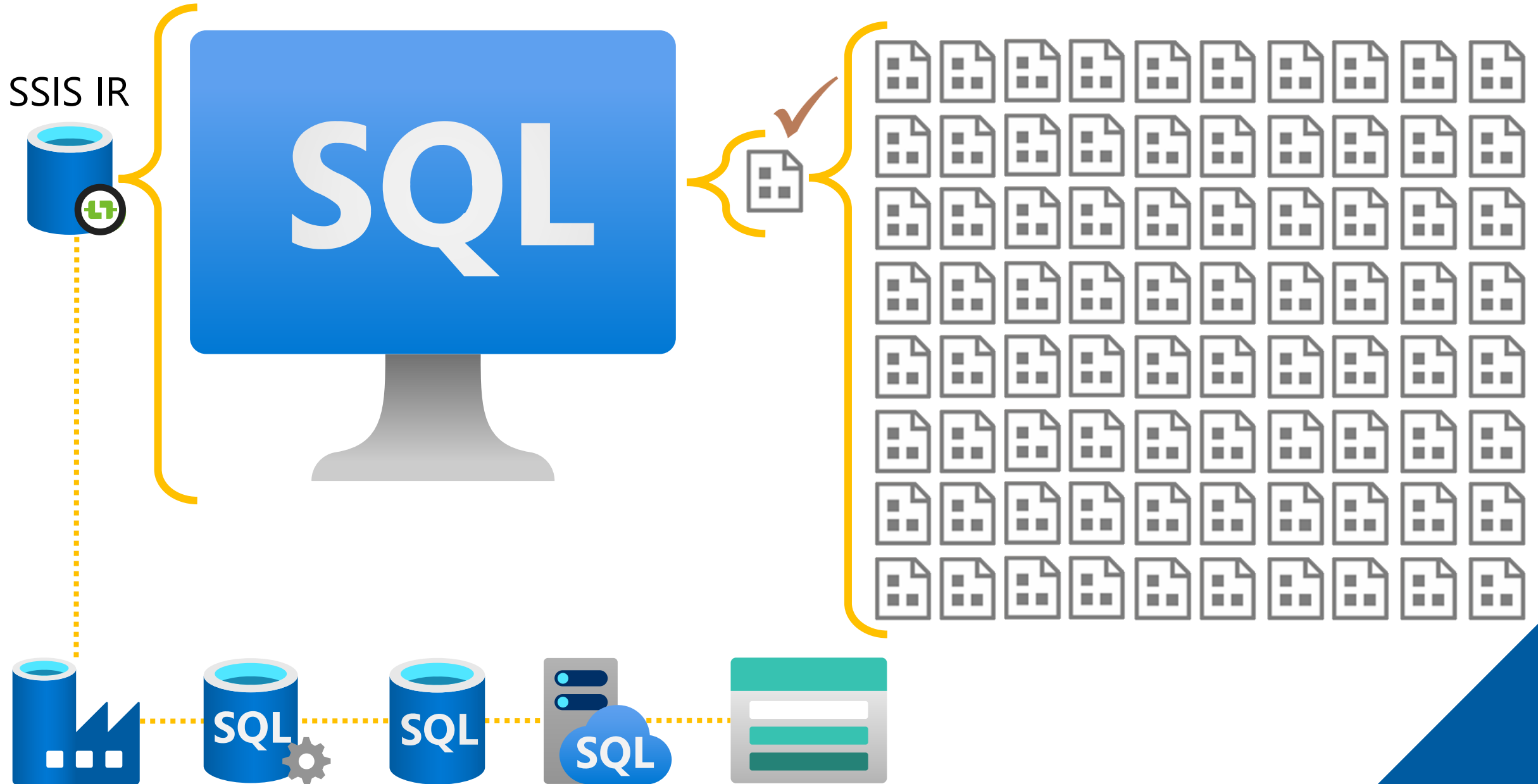
Problem: Using All Of The SSIS IR Compute



Solution 1 & 2: Static Pipelines



Solution 3: Packages Refactored on a Single Node IR

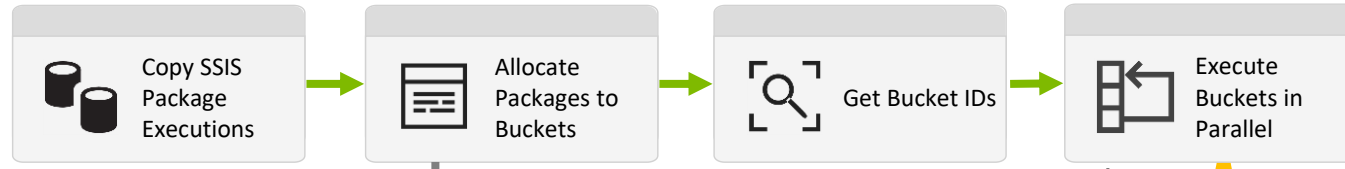


Solution 4: Nested ForEach Activities & Bucket Metadata

$$(FE\ L1) \times (FE\ L2) = NEW\ MAXDOP$$

$$50 \times 50 = 2500$$

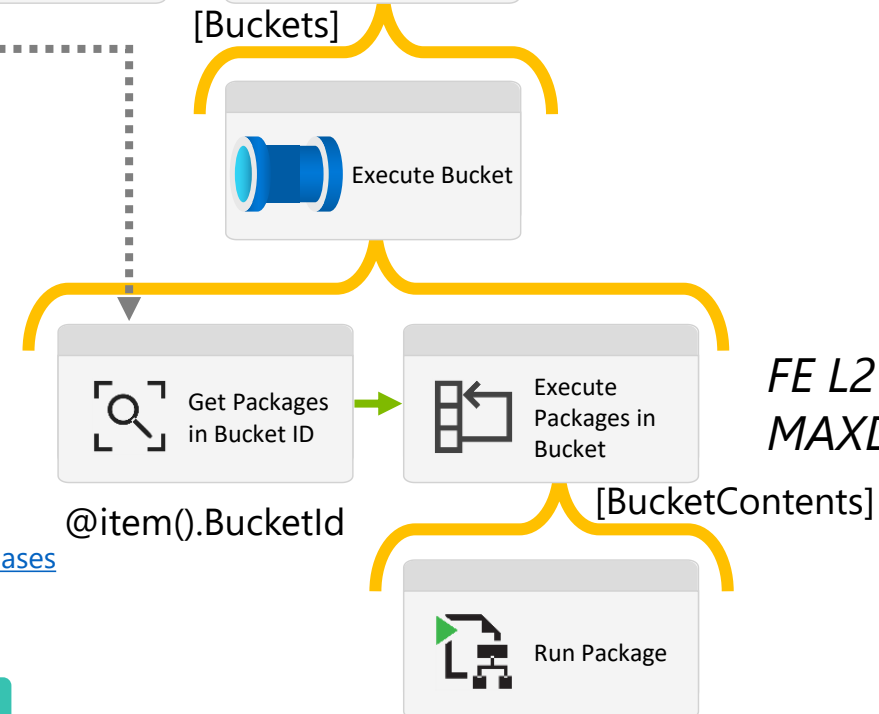
SSIS IR



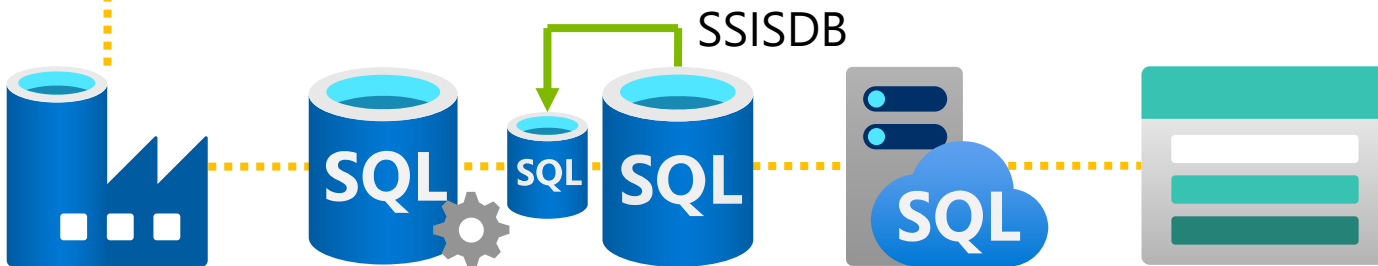
FE L1
MAXDOP 50

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

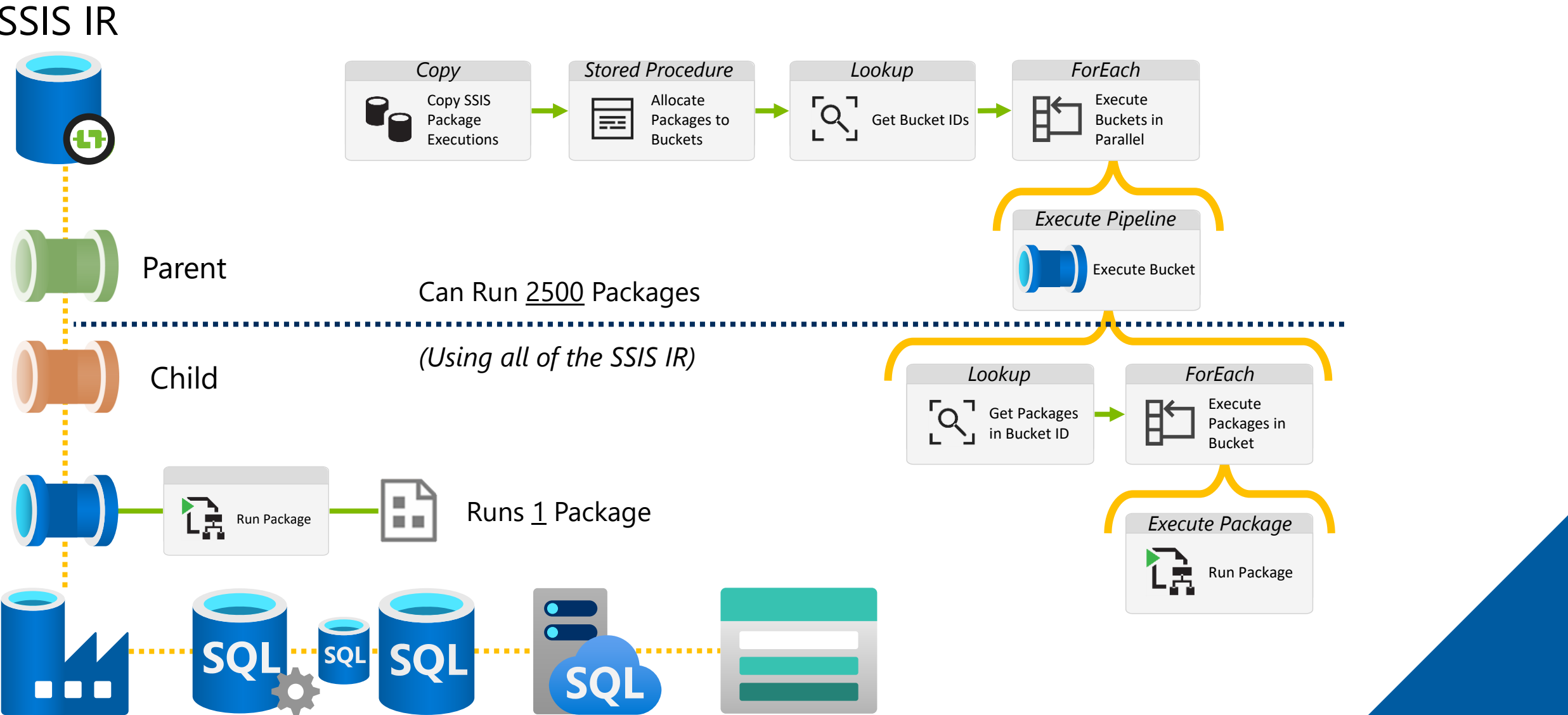
<https://docs.microsoft.com/en-us/azure/azure-sql/database/resource-limits-dtu-single-databases>

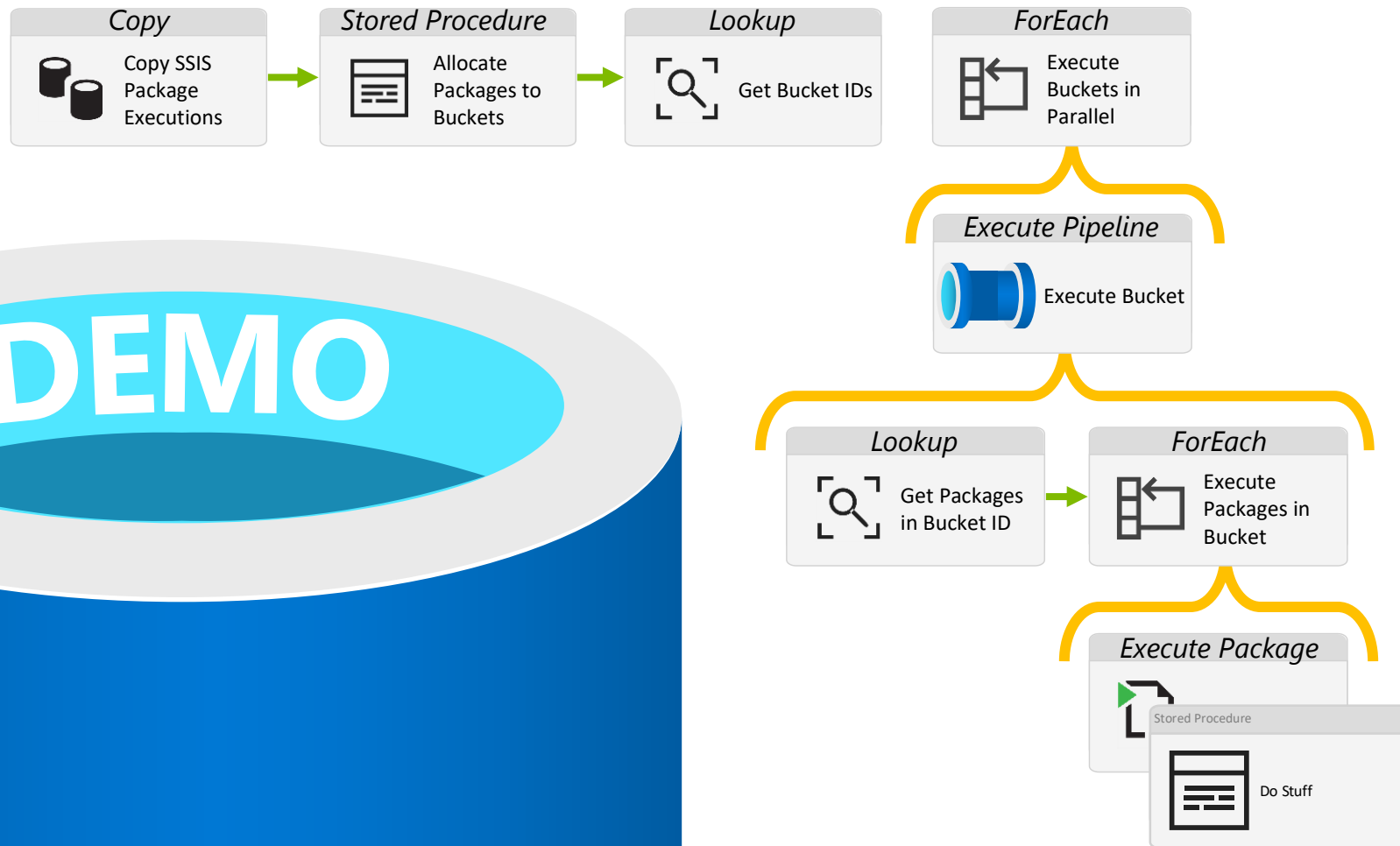


FE L2
MAXDOP 50

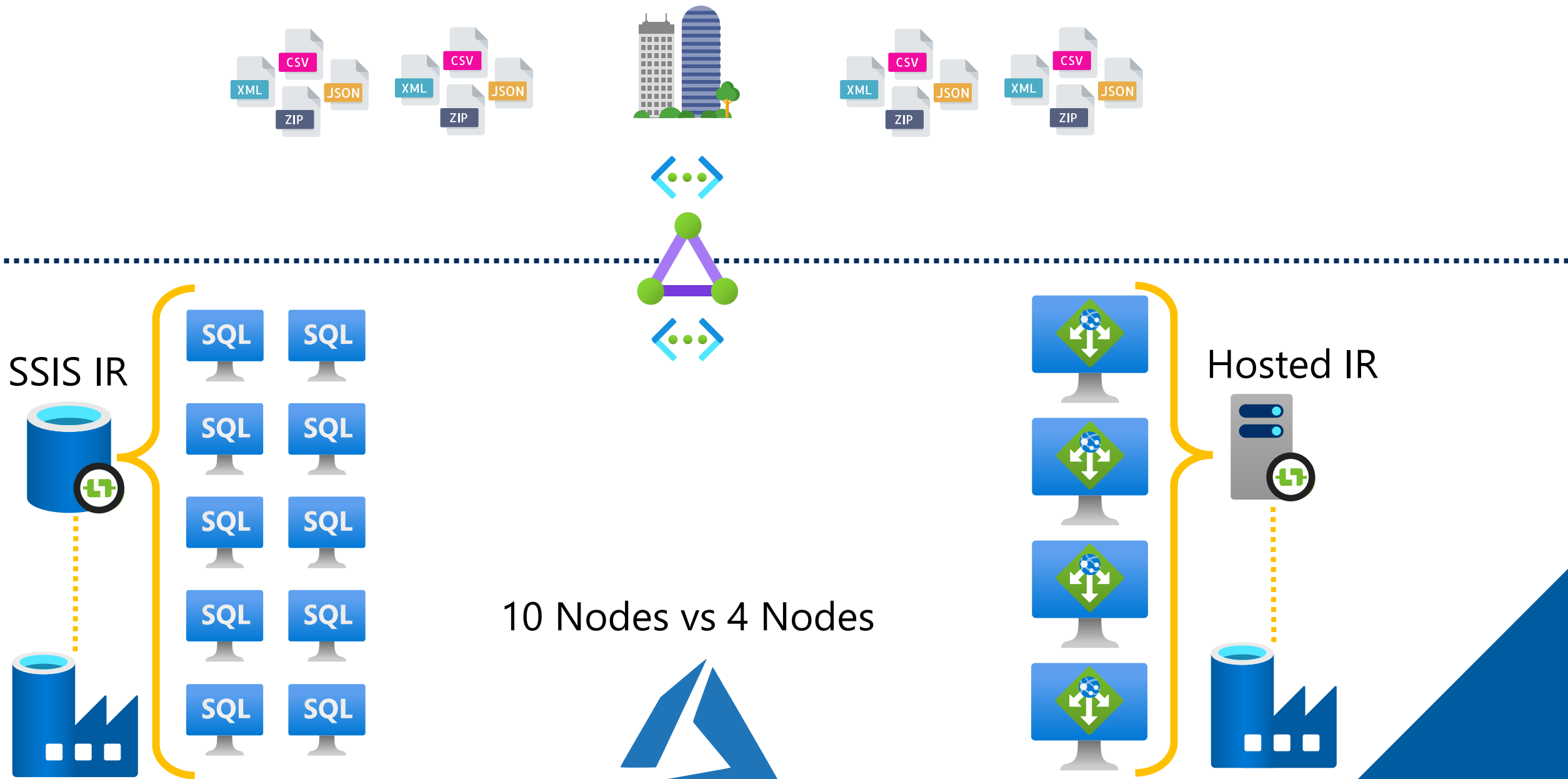


Solution 4: Nested ForEach Activities & Bucket Metadata





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

