



Module 5: SSIS Packages in Azure

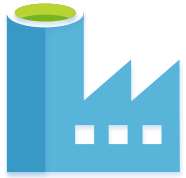
- Running SSIS Packages in Azure
 - Scale Out Package Execution
- 

Running SSIS Packages in Azure

A large, solid blue triangle is positioned in the bottom right corner of the slide, pointing towards the top right.

How do we schedule an SSIS Package in Azure?

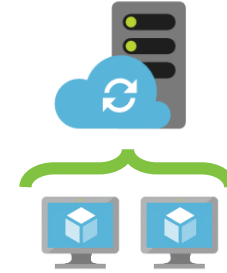
Azure Data
Factory



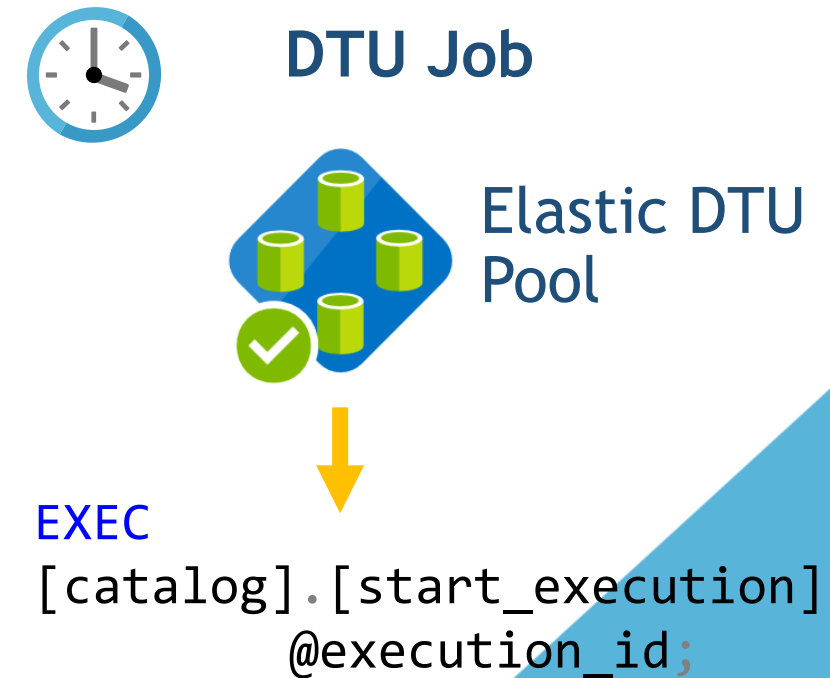
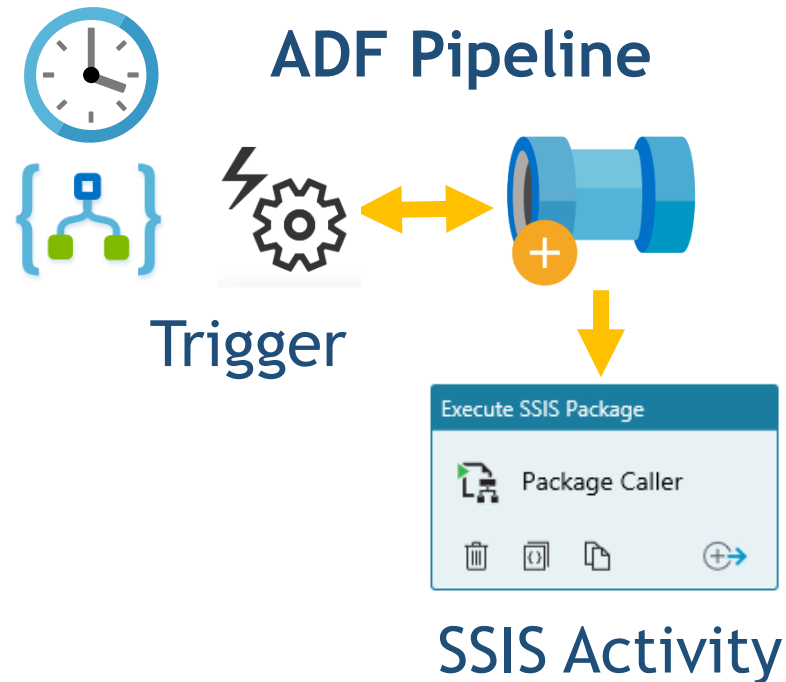
Azure Logical or MI
SQL Server Instance



SSIS IR



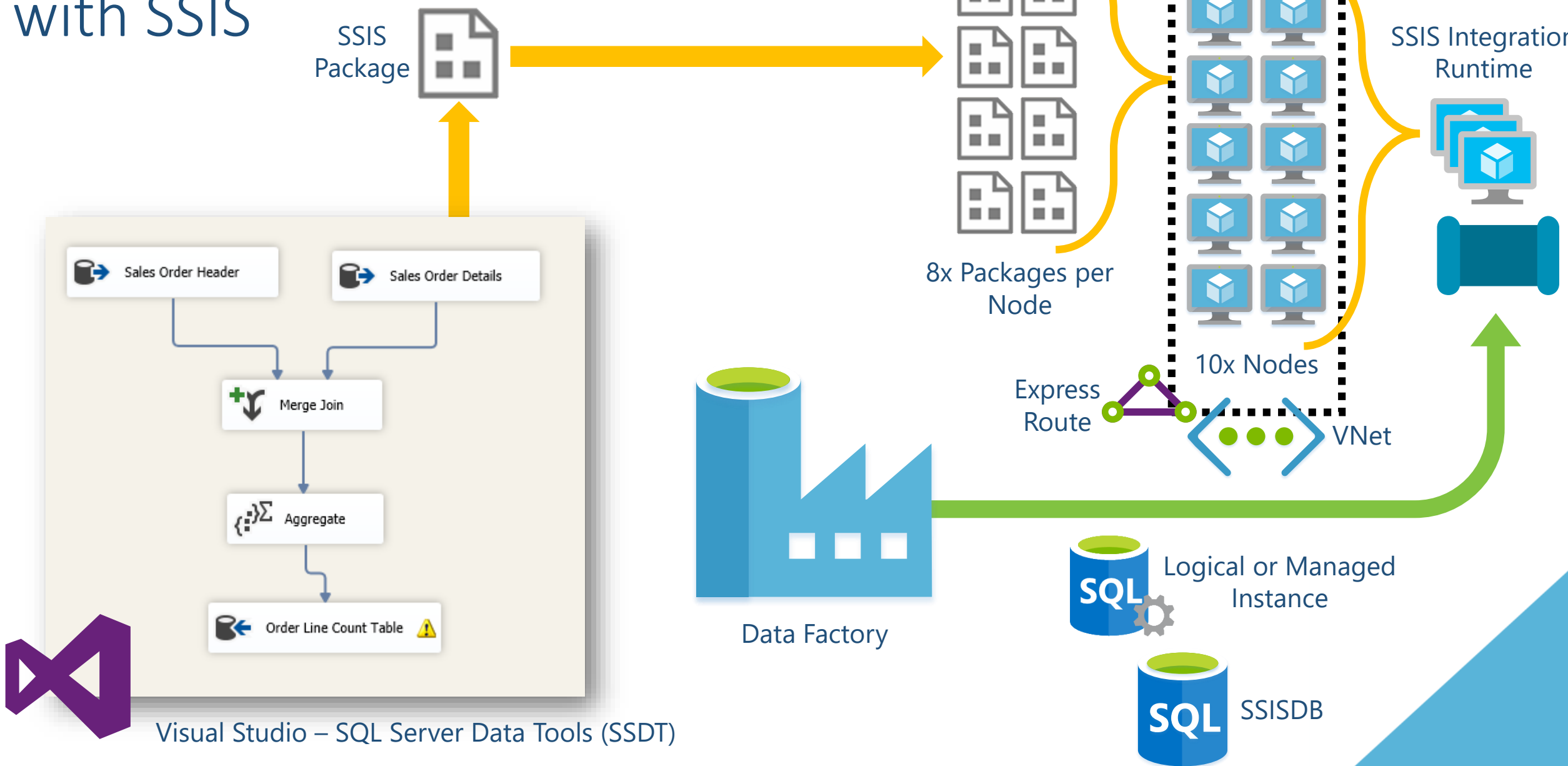
Azure SQLDB
(SSISDB)



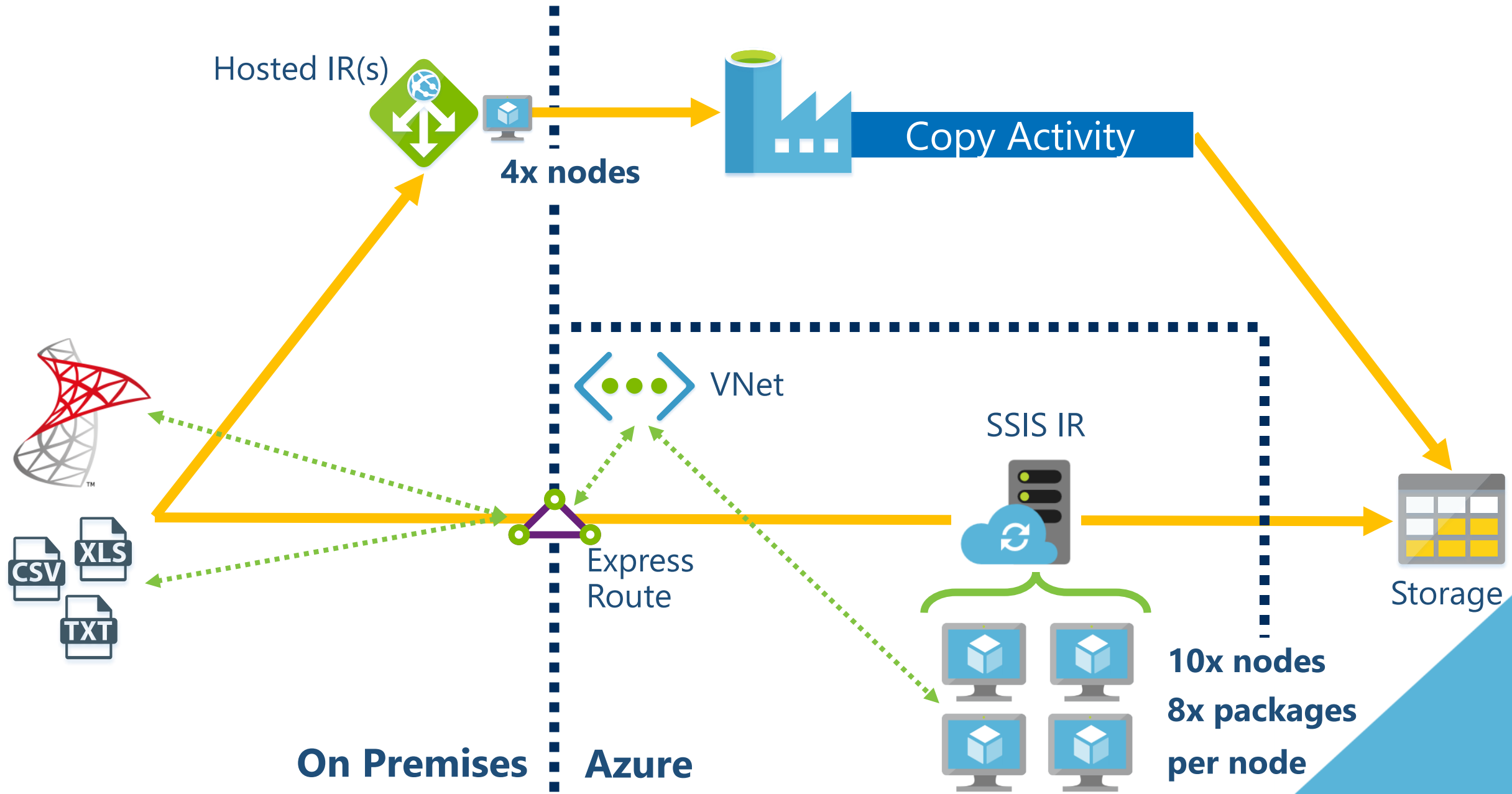
Scale Out Package Execution

A large, solid blue triangle is positioned in the bottom right corner of the slide, pointing towards the top right. The rest of the slide has a light gray background with a thin vertical line separating it from the blue triangle.

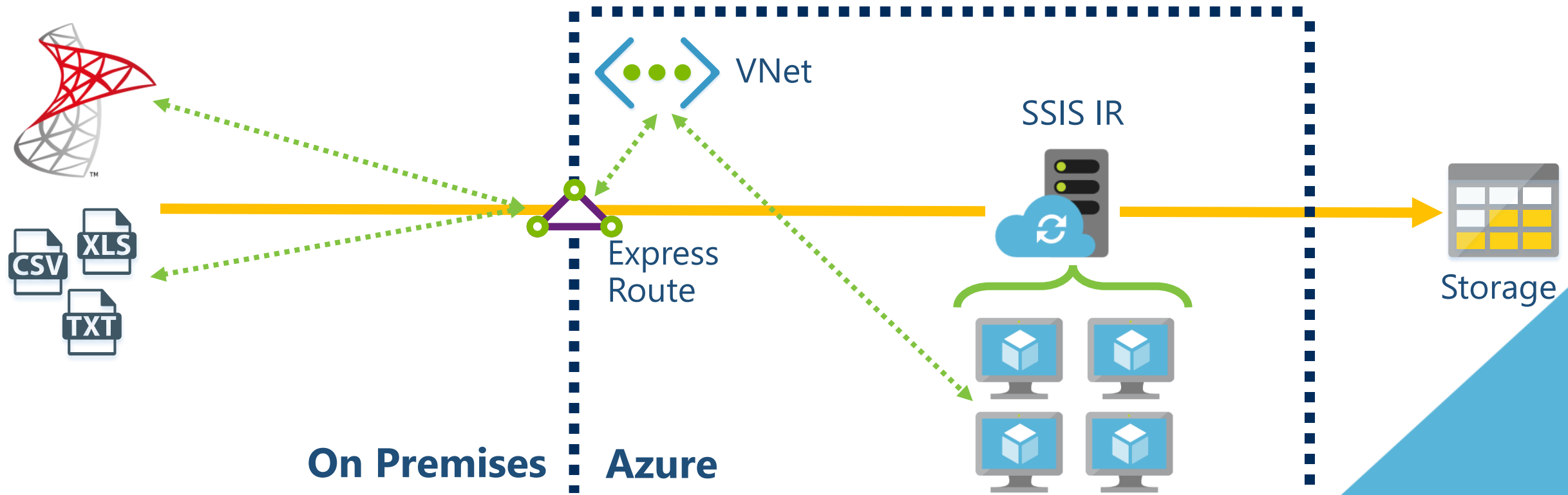
Data Transformation in Azure with SSIS



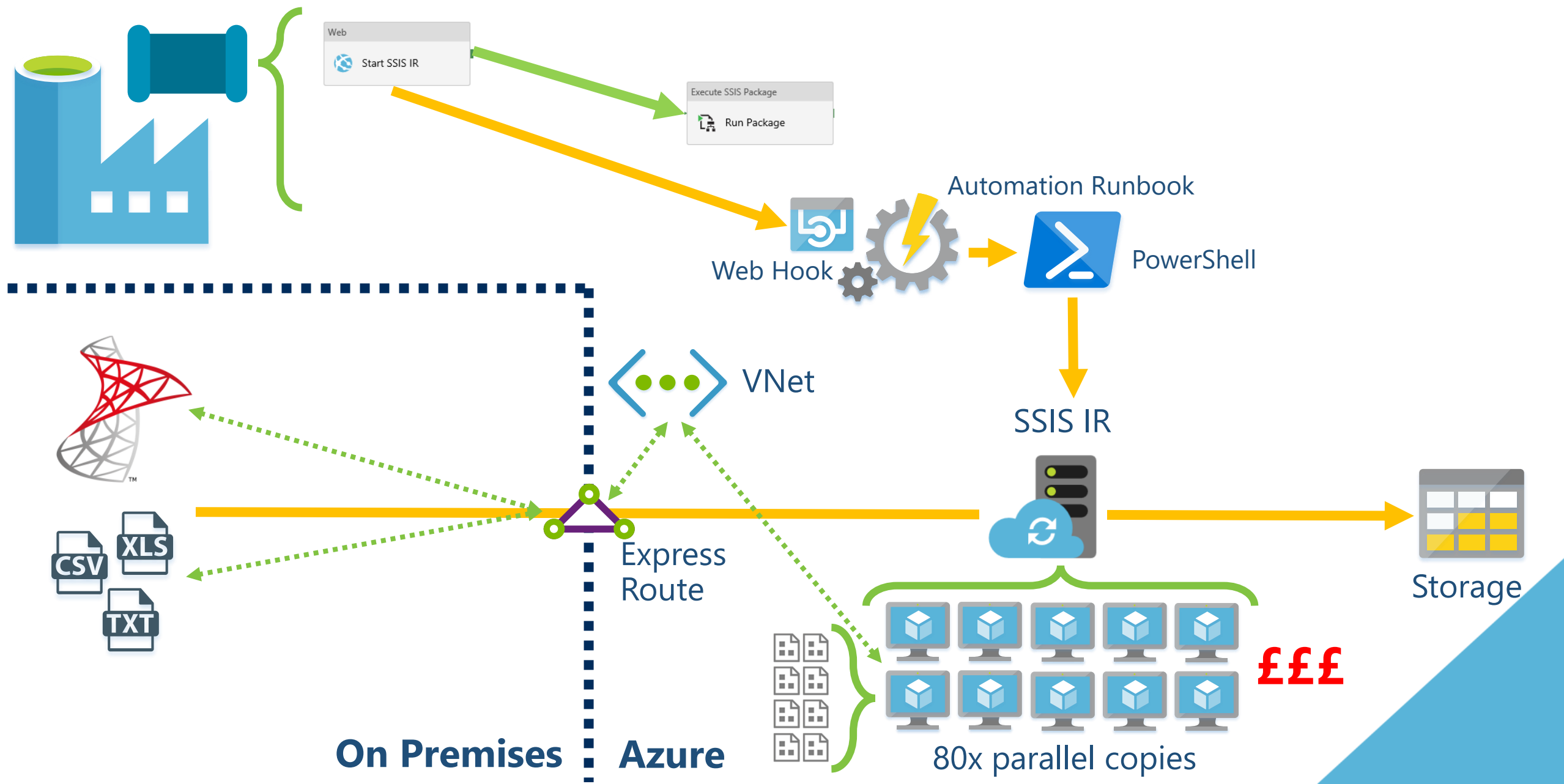
The SSIS IR vs Hosted IR with Express Route



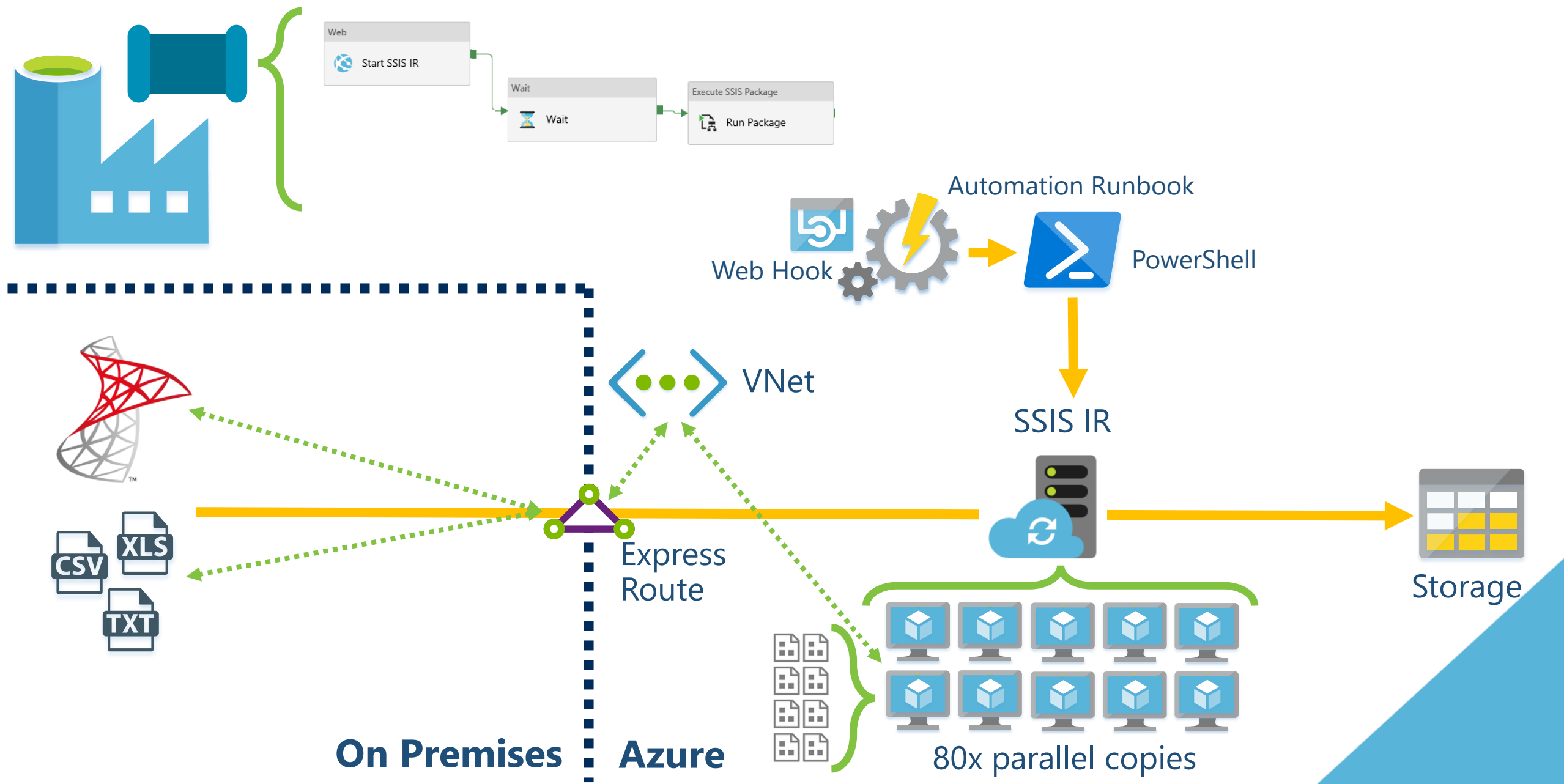
The SSIS IR Start/Stop



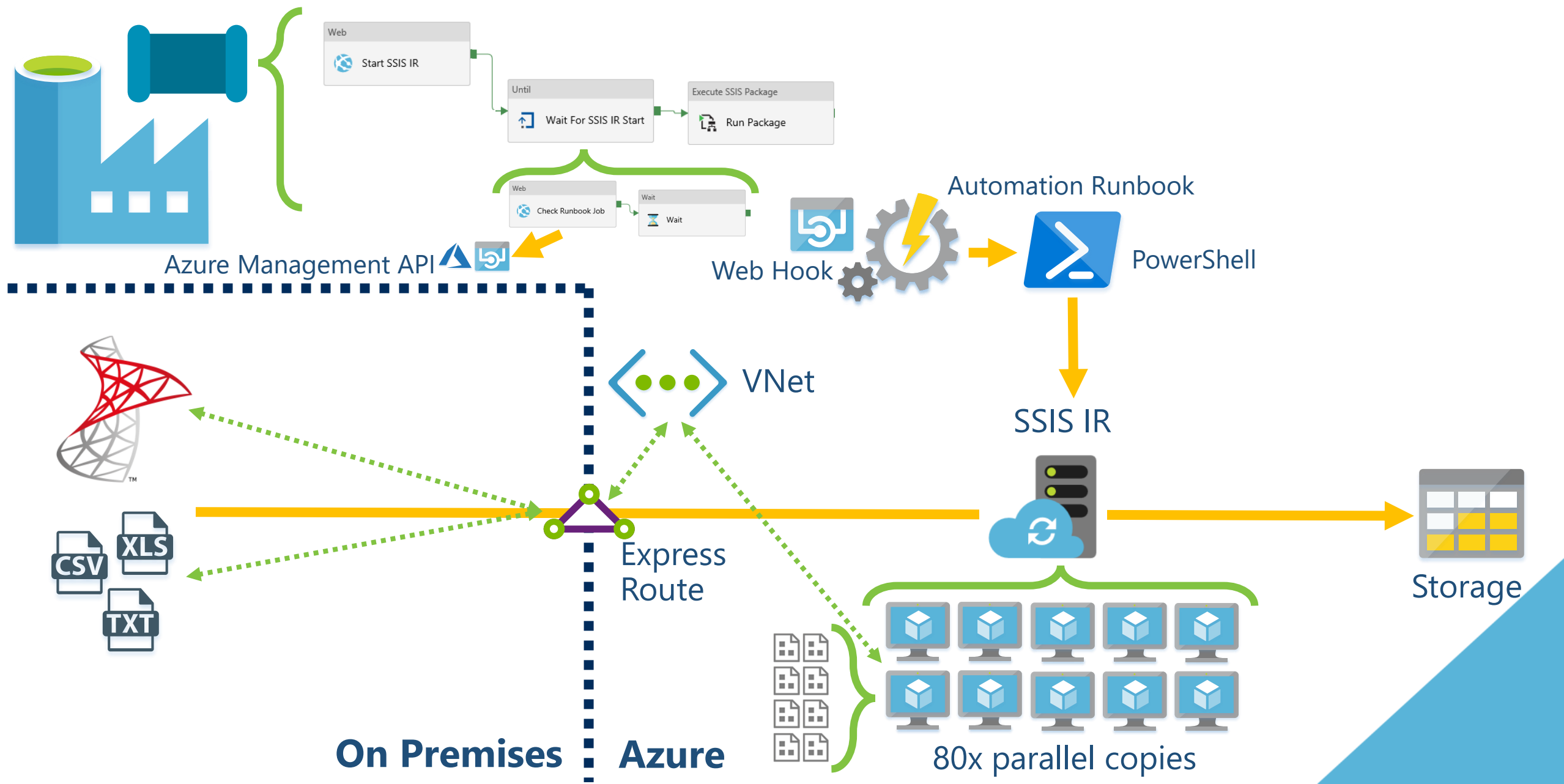
The SSIS IR Start/Stop



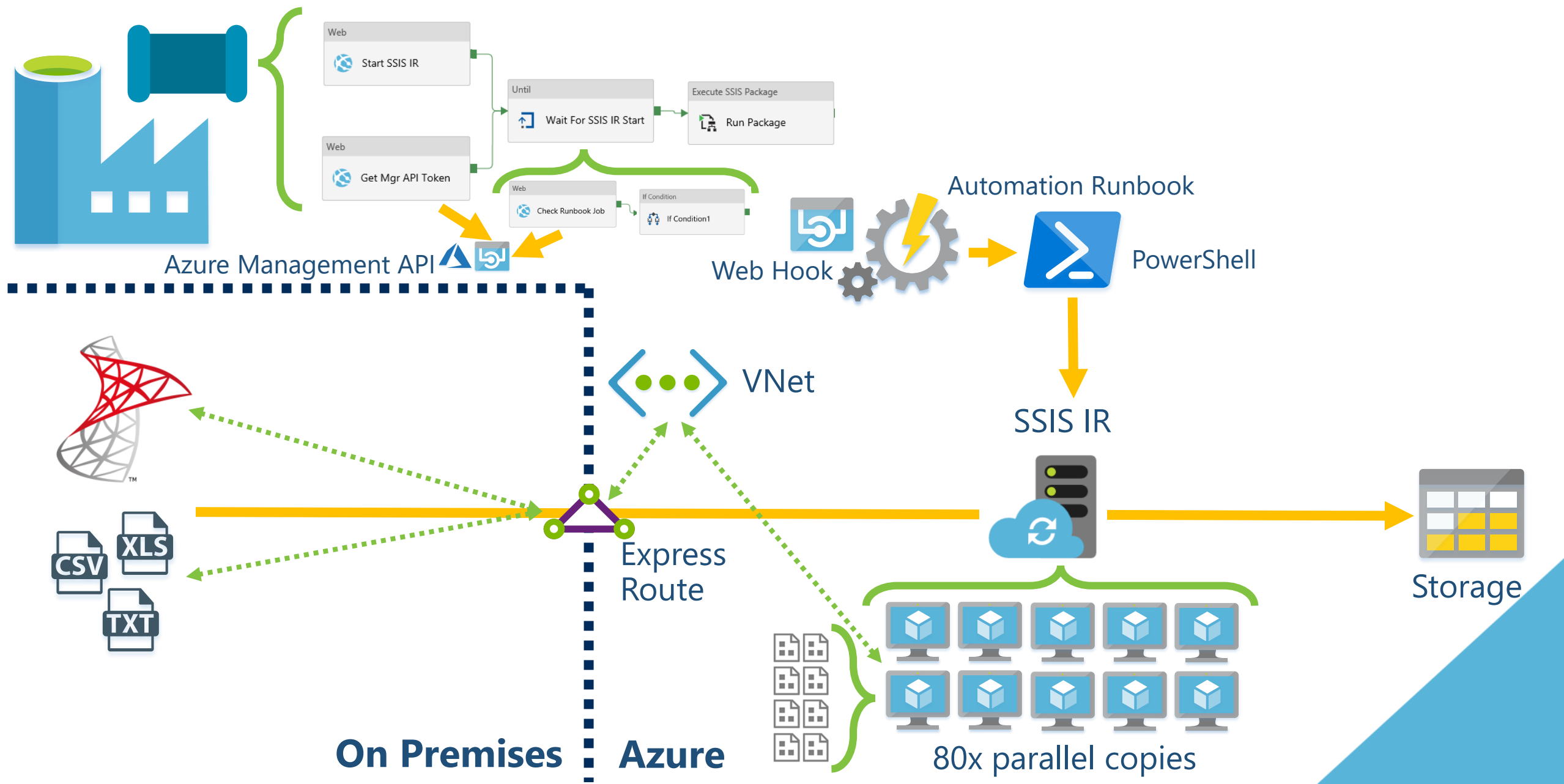
The SSIS IR Start/Stop



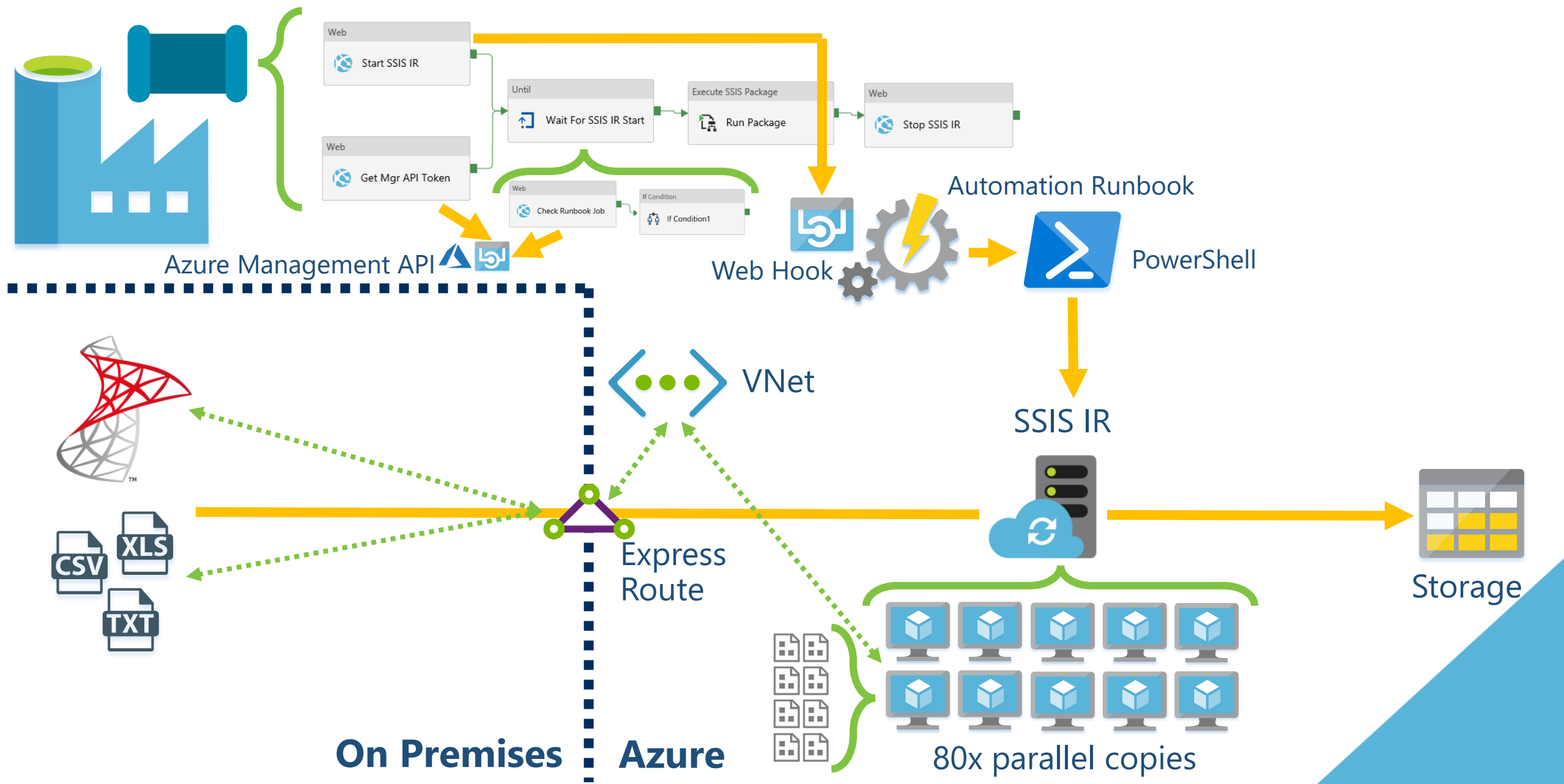
The SSIS IR Start/Stop



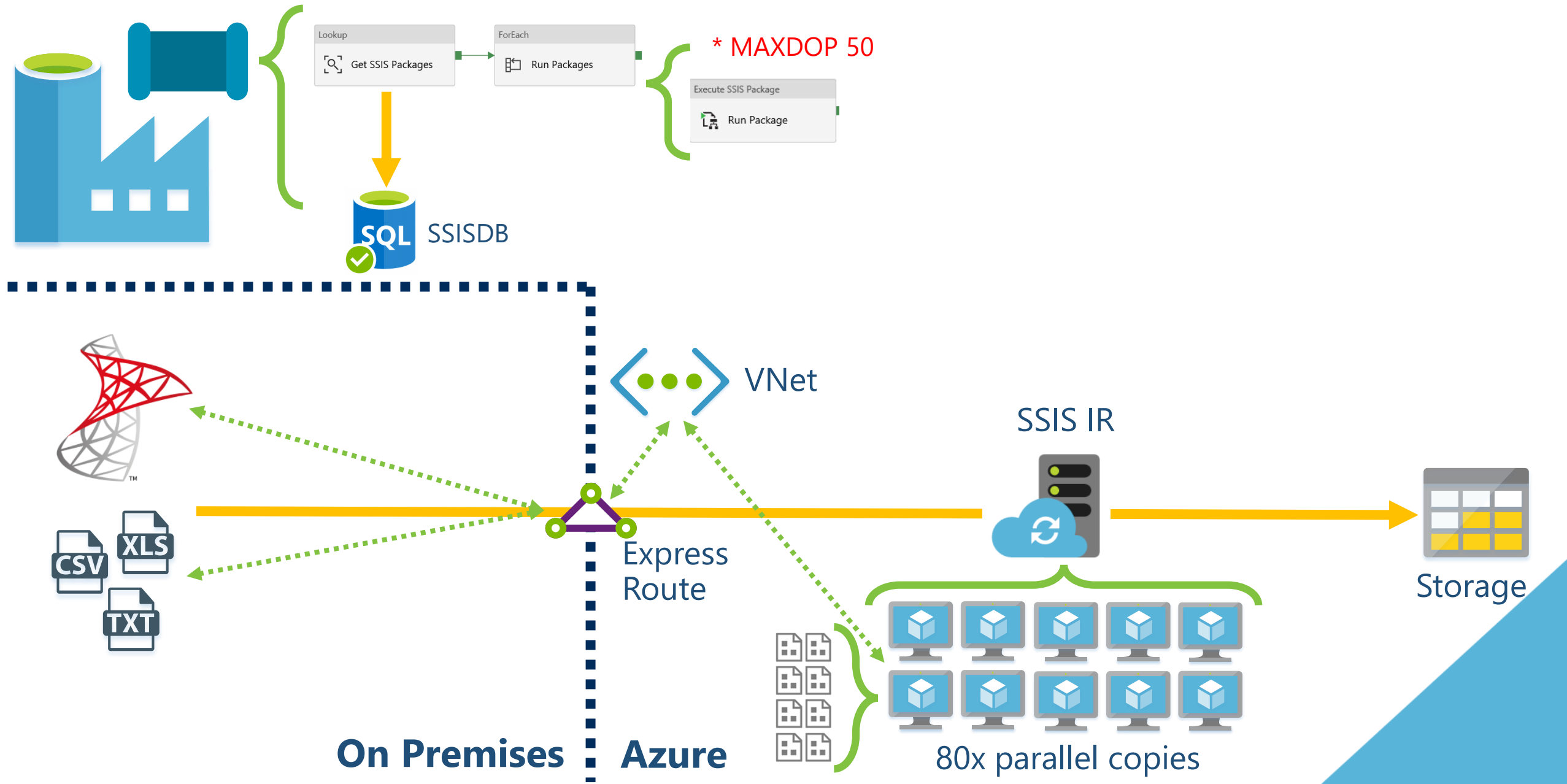
The SSIS IR Start/Stop



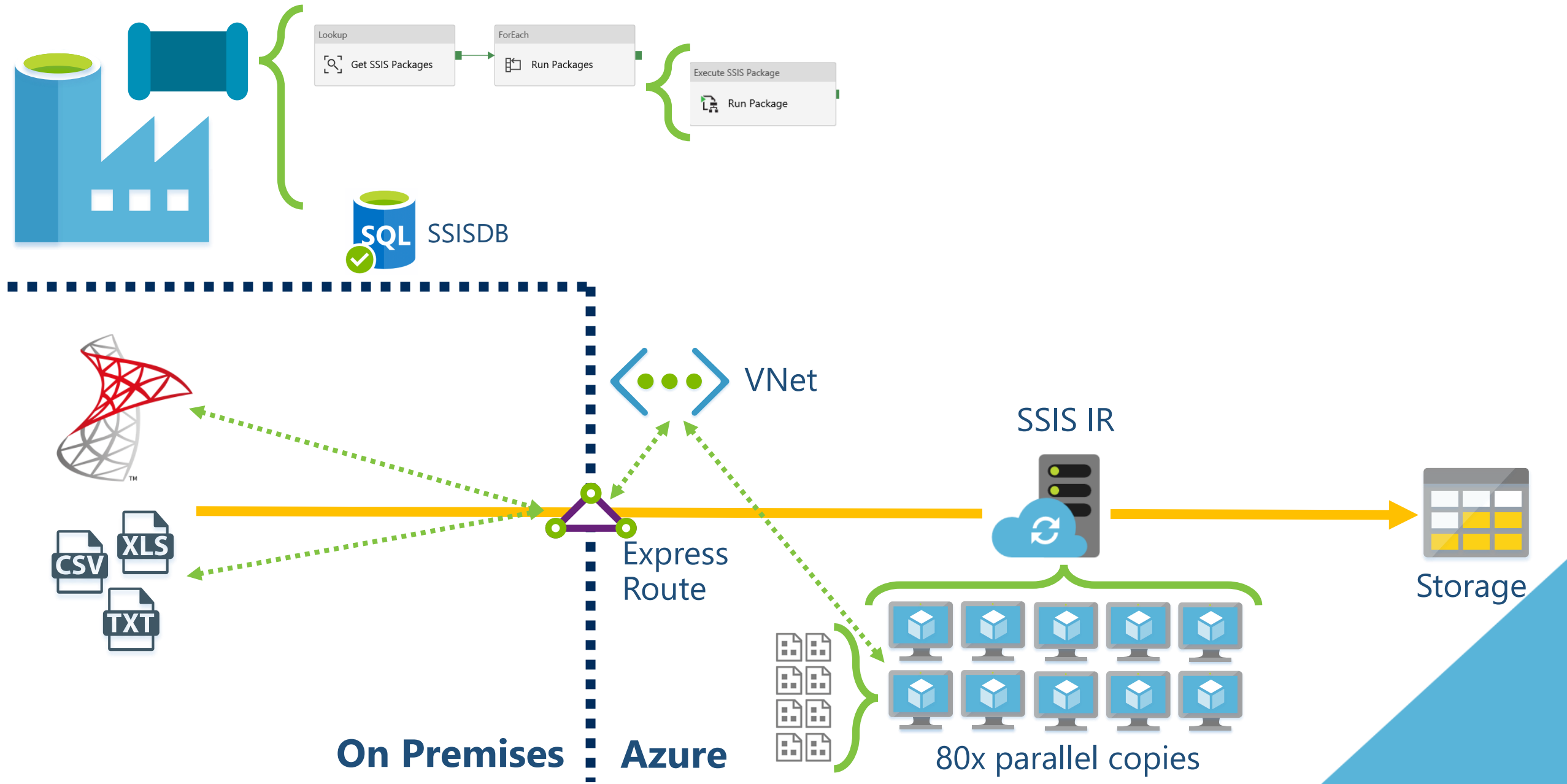
The SSIS IR Start/Stop



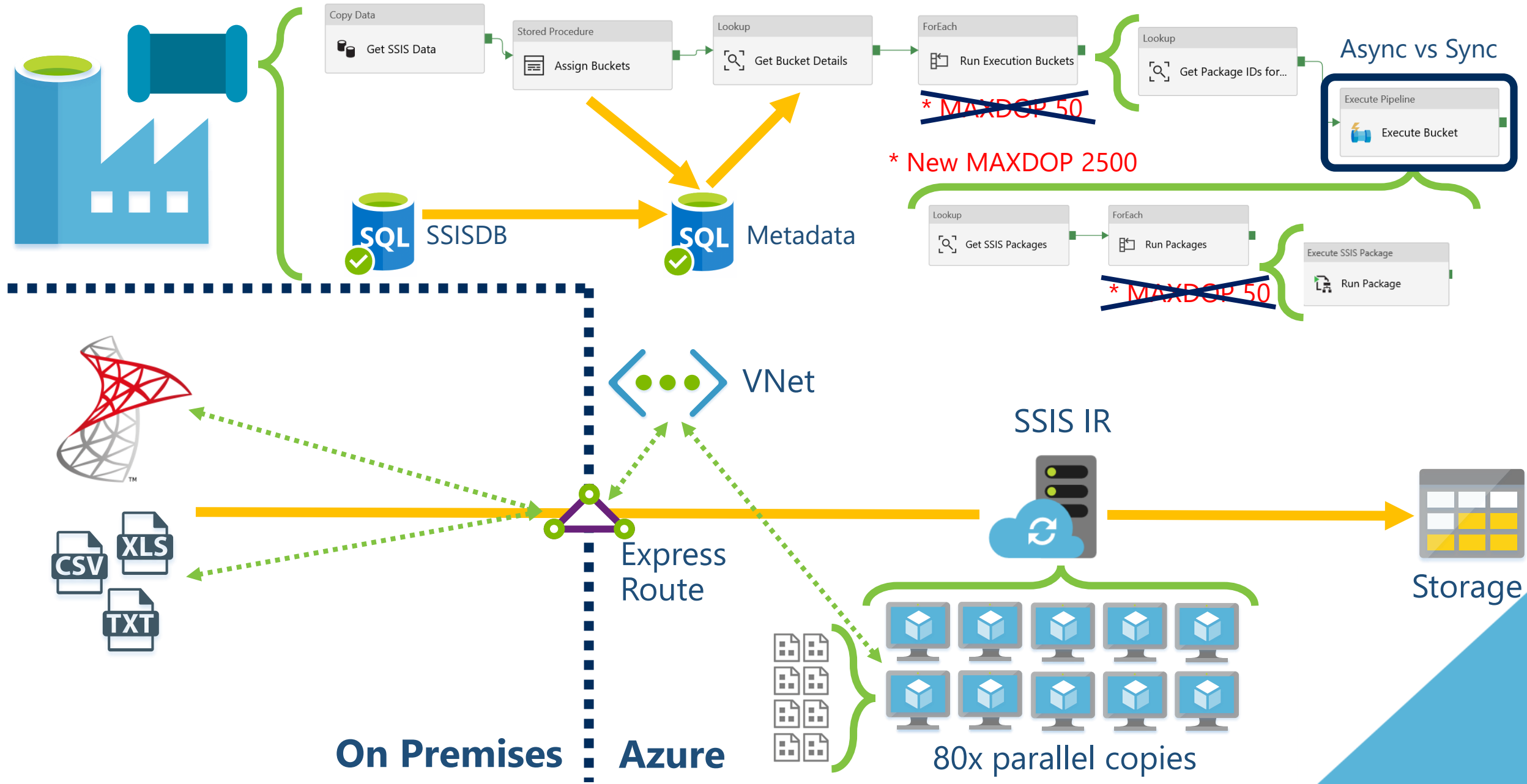
The SSIS IR Parallelism



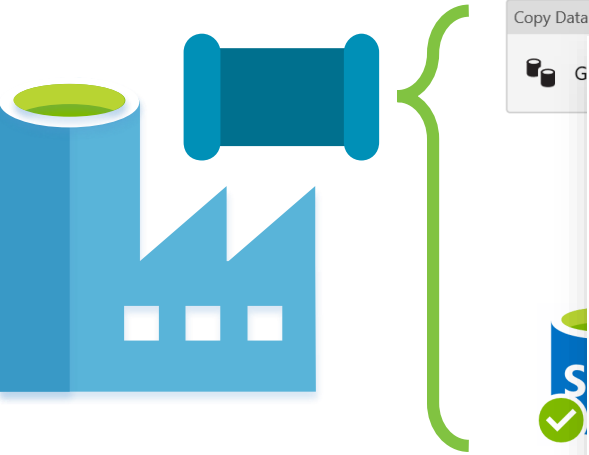
The SSIS IR Parallelism



The SSIS IR Parallelism

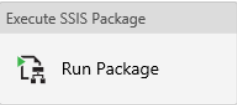
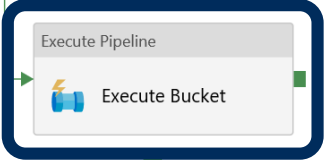


The SSIS IR Parallelism



Resource	Default Limit	Maximum Limit
Data factories in an Azure subscription	50	Contact support
Total number of entities (Pipeline, Datasets, Triggers, Linked Services, Integration runtimes) within a data factory	5000	Contact support
Total CPU cores for Azure-SSIS Integration Runtime(s) under one subscription	256	Contact support
Concurrent pipeline runs per data factory (shared among all pipelines in the factory)	10,000	Contact support
Max activities per pipeline (includes inner activities for containers)	40	40
Max number of Linked Integration Runtime that can be created against a single Self-hosted Integration Runtime	20	Contact support
Max parameters per pipeline	50	50
ForEach items	100,000	100,000
ForEach parallelism	20	50
Characters per expression	8,192	8,192
Minimum Tumbling Window Trigger interval	15 min	15 min
Max Timeout for pipeline activity runs	7 days	7 days
Bytes per object for pipeline objects ¹	200 KB	200 KB
Bytes per object for dataset and linked service objects ¹	100 KB	2000 KB
Data integration units per copy activity run ³	256	Contact support

Async vs Sync



OP 50

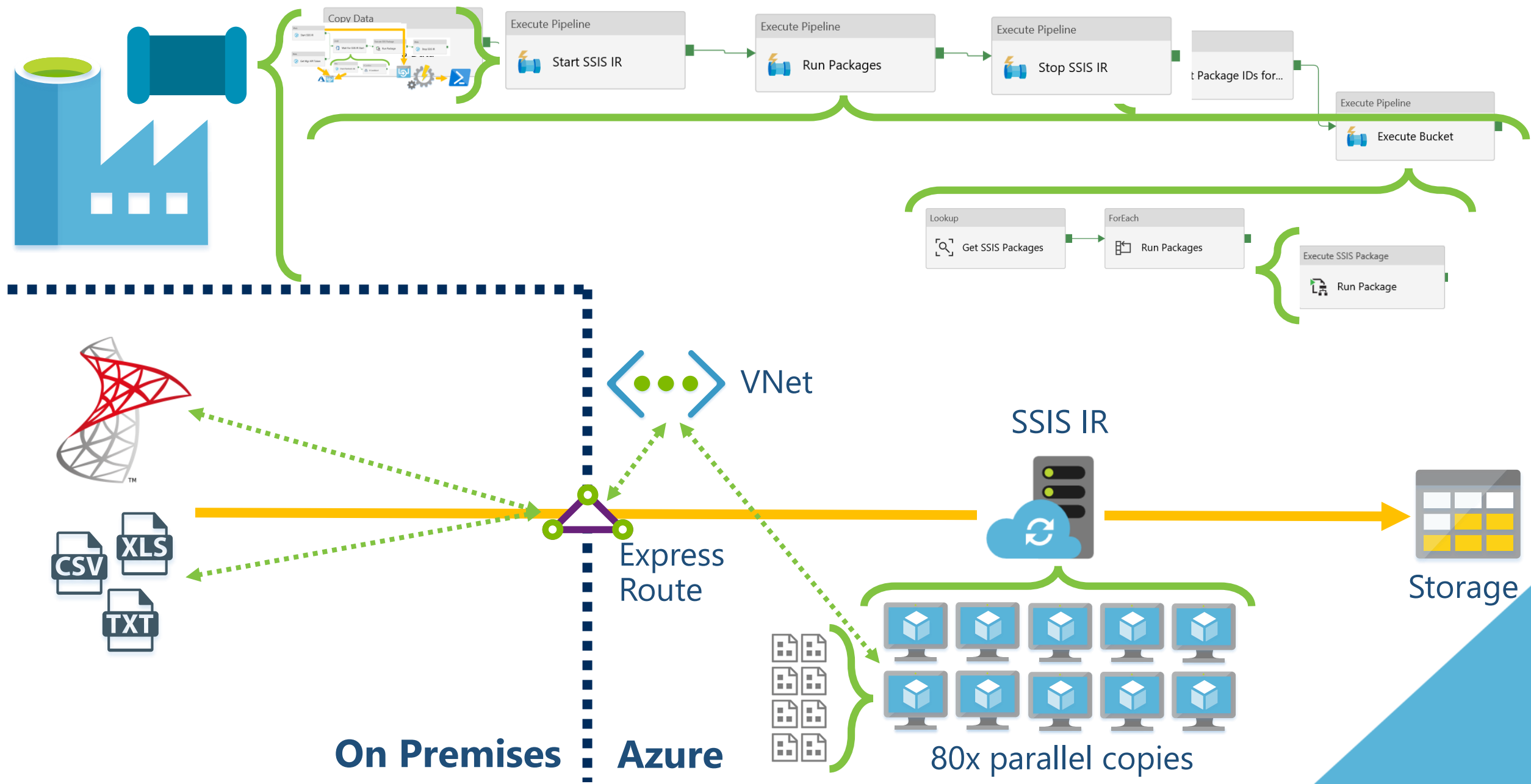


Storage

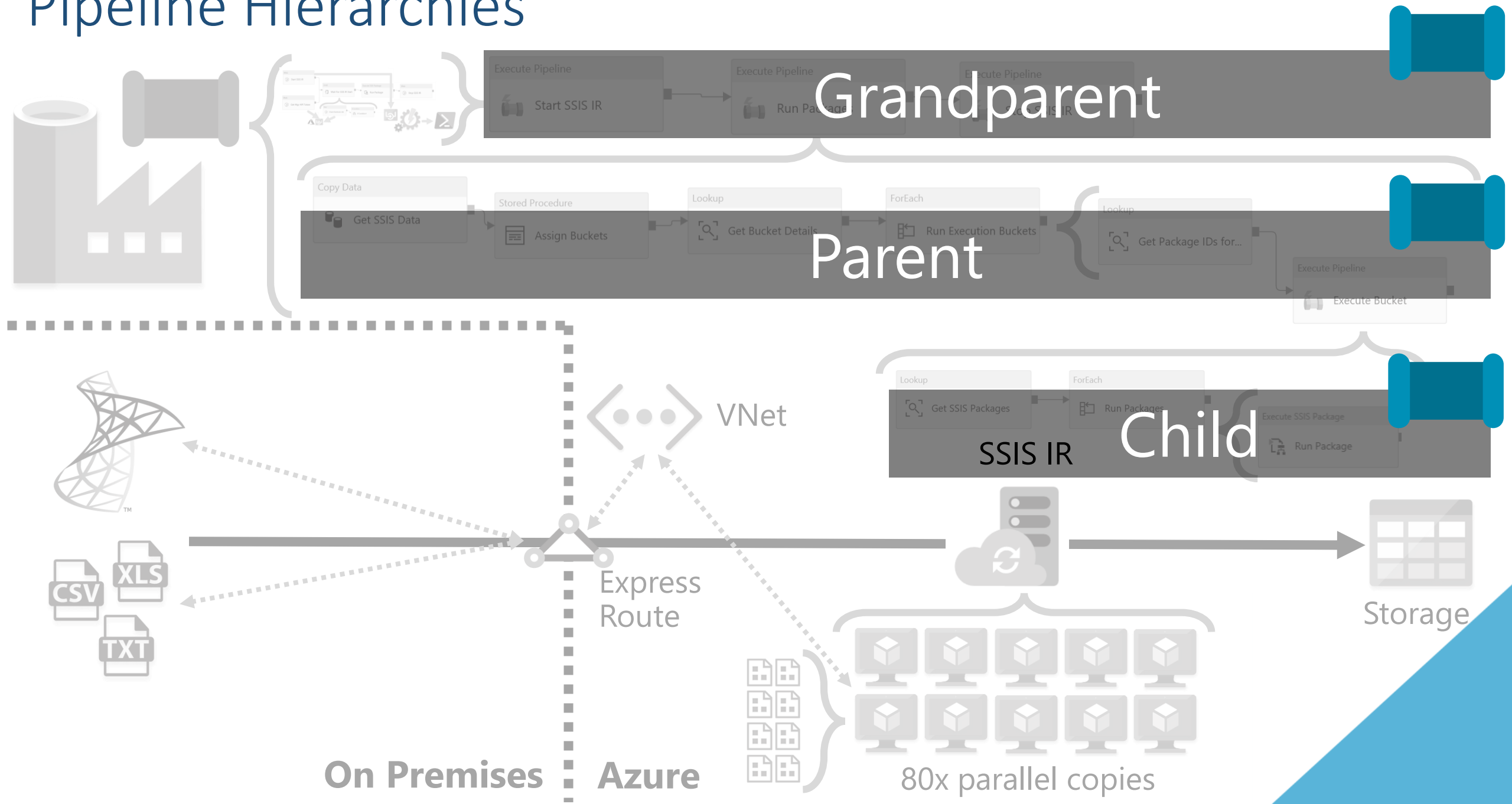
<https://github.com/MicrosoftDocs/azure-docs/blob/master/includes/azure-data-factory-limits.md>

On Premises : Azure 80x parallel copies

SSIS IR & Package Complete Orchestration Solution



Pipeline Hierarchies



Pattern Summary


Execute Pipeline

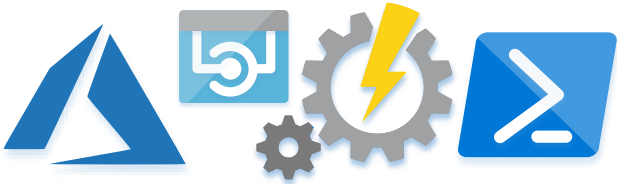
 Grandparent



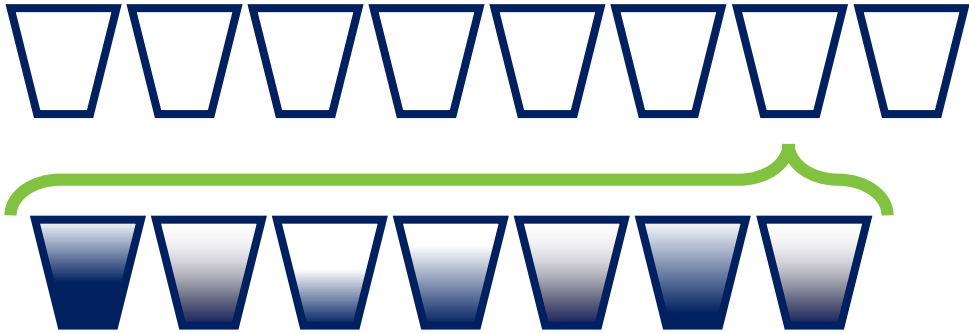
High Level Control Flow and Pipeline Triggers

Execute Pipeline

 Parent




Platform Component Control



Manage Parallel Activities

Execute Pipeline

 Child



Service Level Executions

Module 5: SSIS Packages in Azure

- Running SSIS Packages in Azure
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 - Pipeline Hierarchies