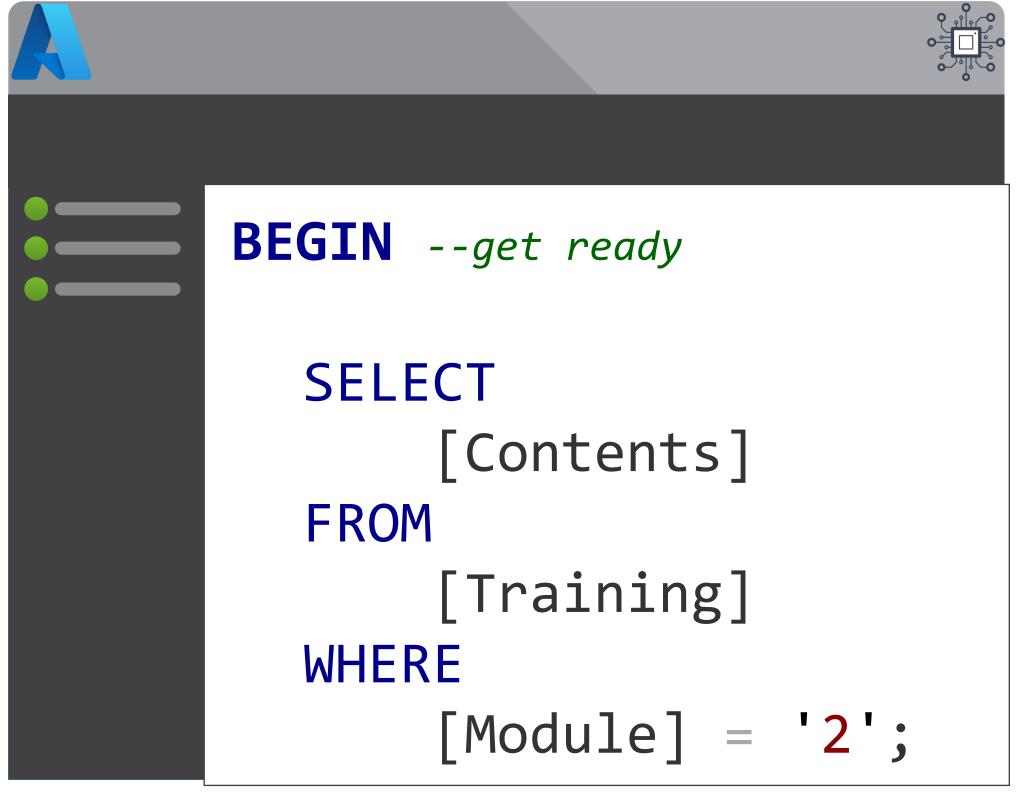
Module 2

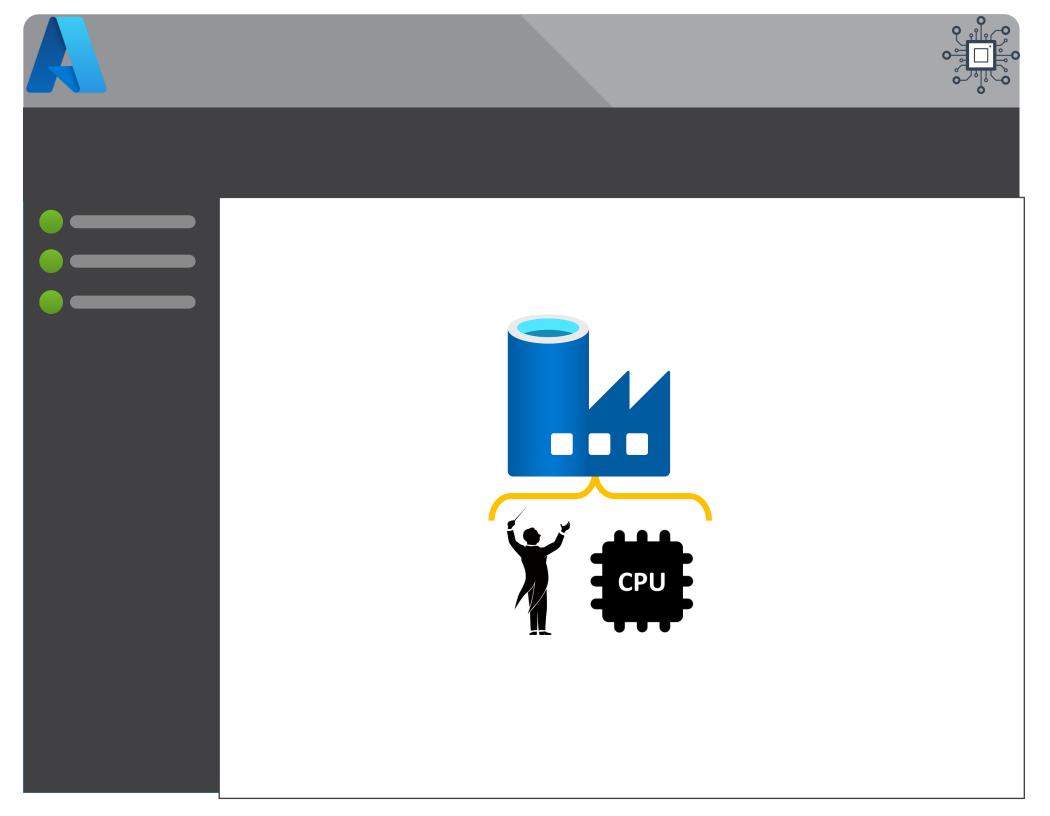
Integration Runtime Design Patterns



- Compute Types
 - Azure
 - Hosted
 - SSIS
- Patterns & Configuration

Module 2

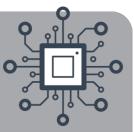
Integration Runtime Design Patterns



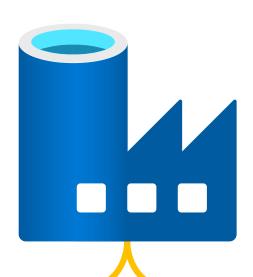
- Compute Types
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What is an Integration Runtime?



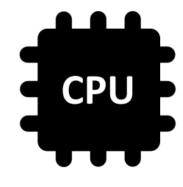






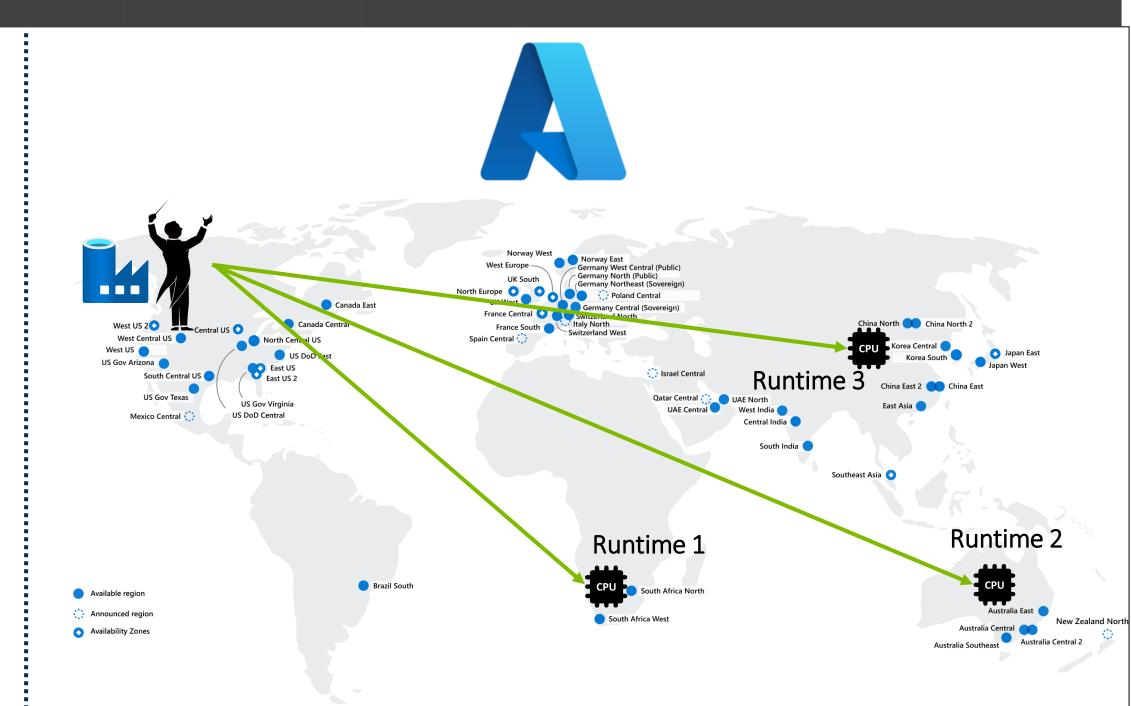
Orchestrator





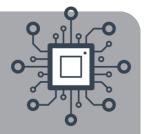
Runtime

Flexible Location

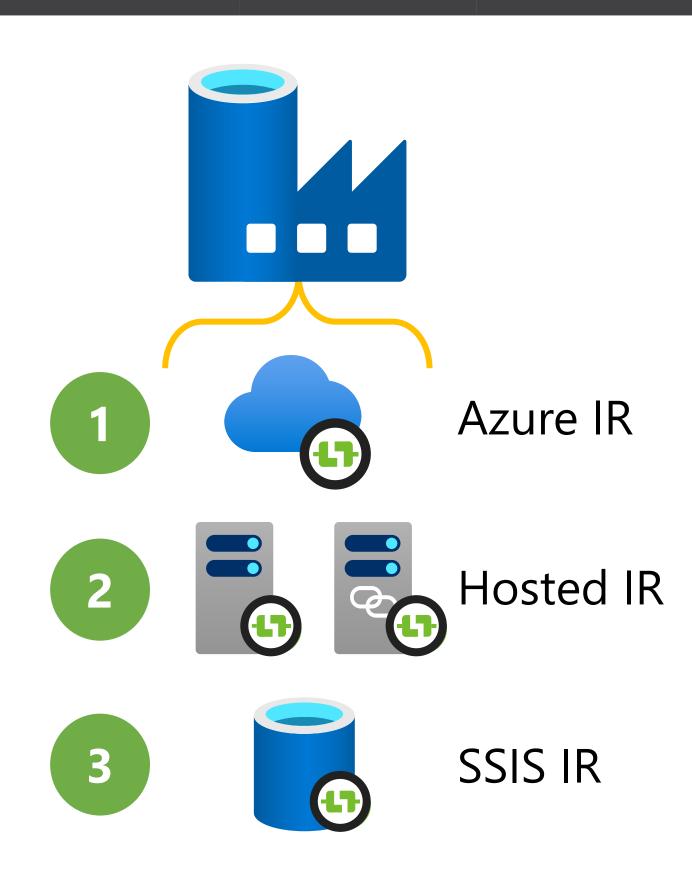




What can an Integration Runtime do?

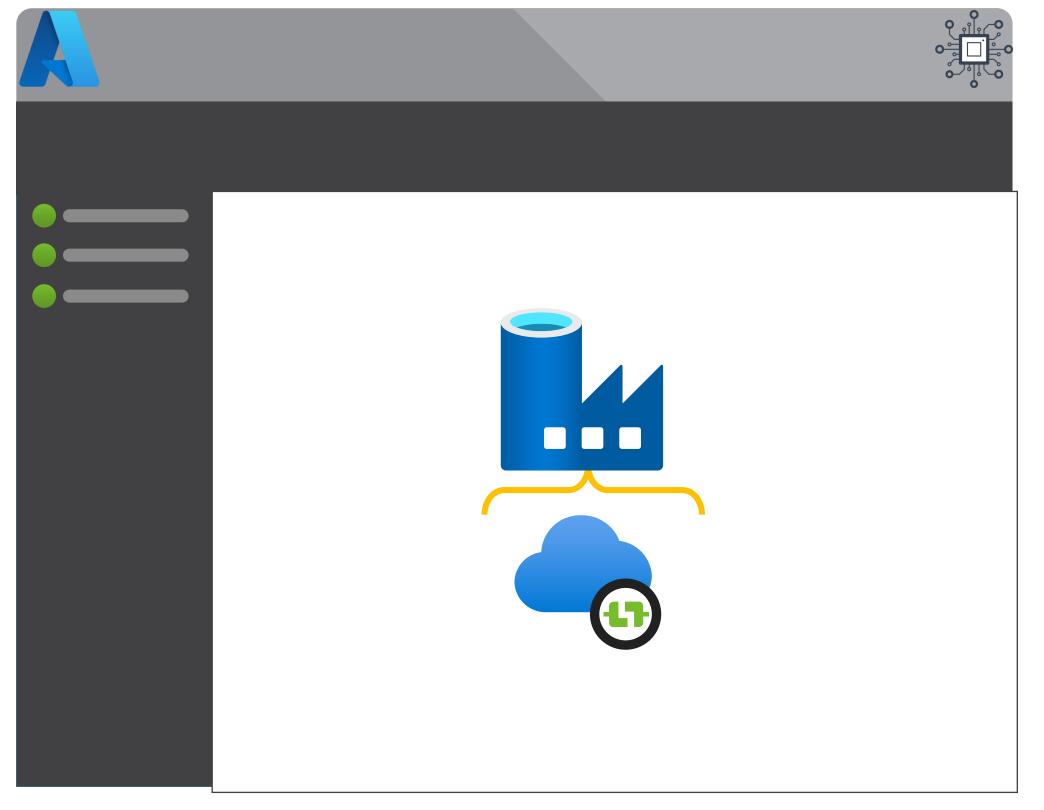






Module 2

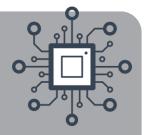
Integration Runtime Design Patterns



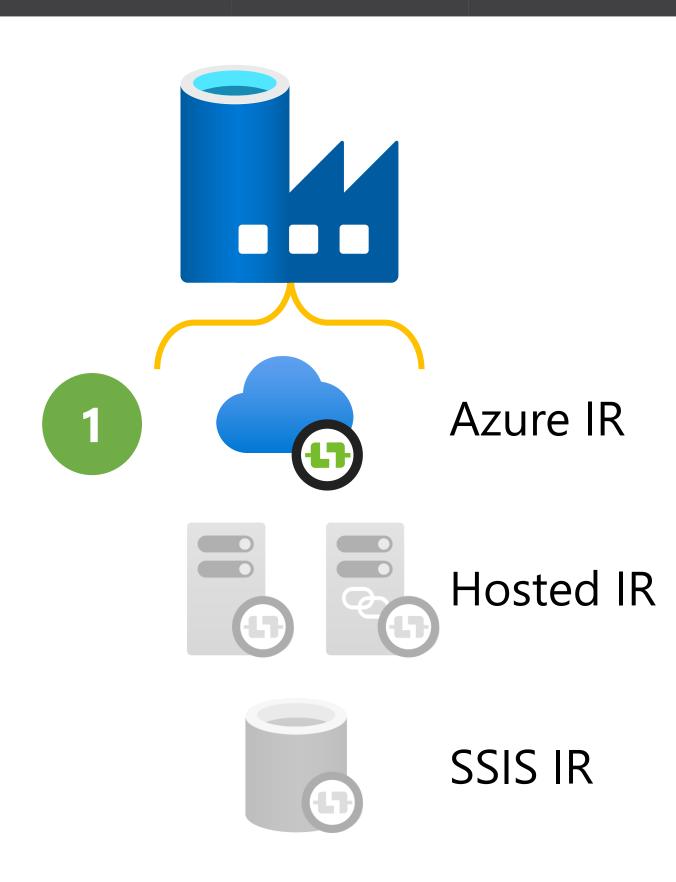
- Compute Types
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What can an Integration Runtime do?

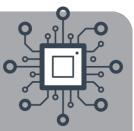


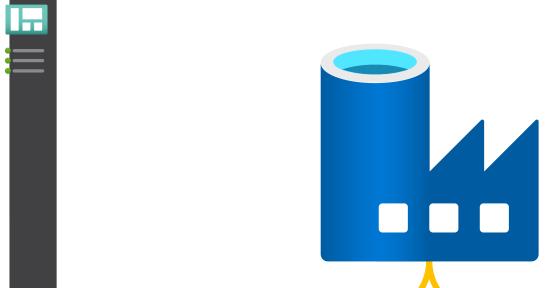






What is an Integration Runtime?







Orchestrator



Fixed Region

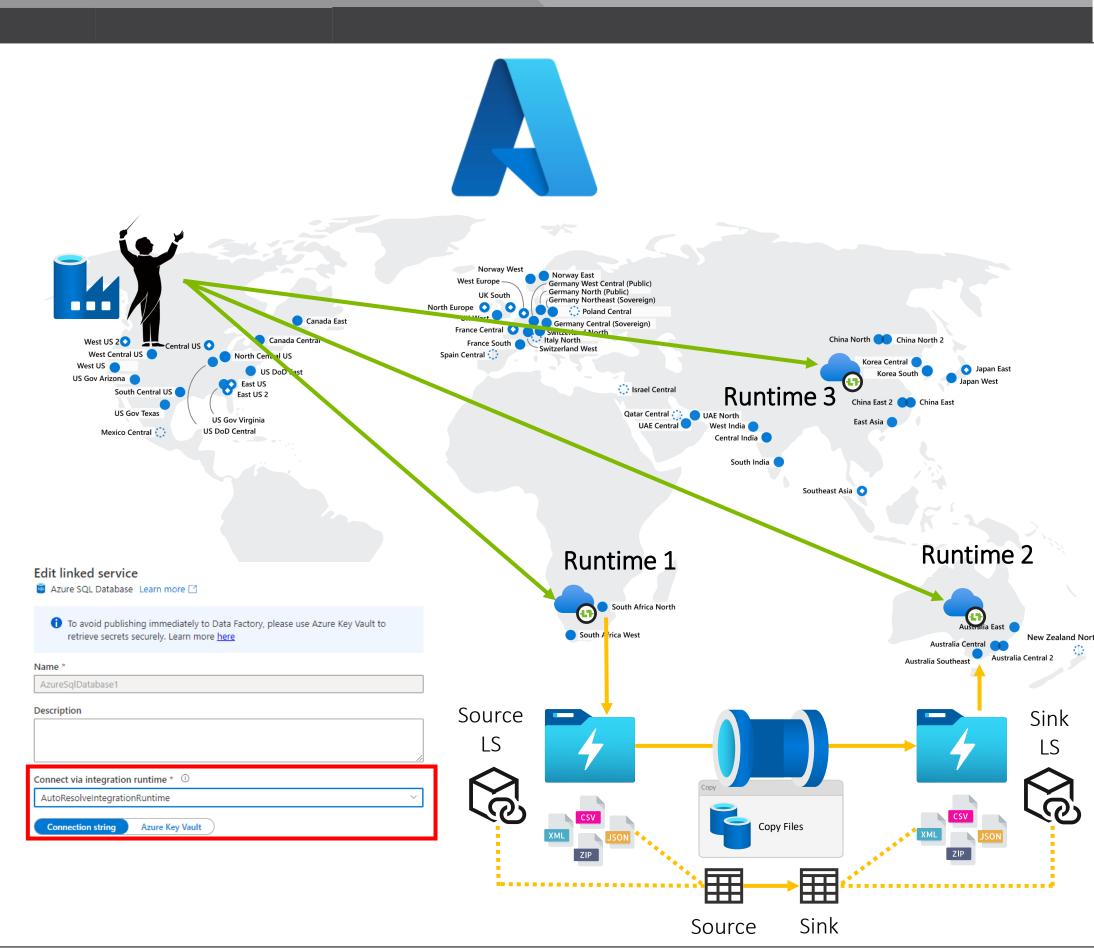


Runtime

Flexible Location

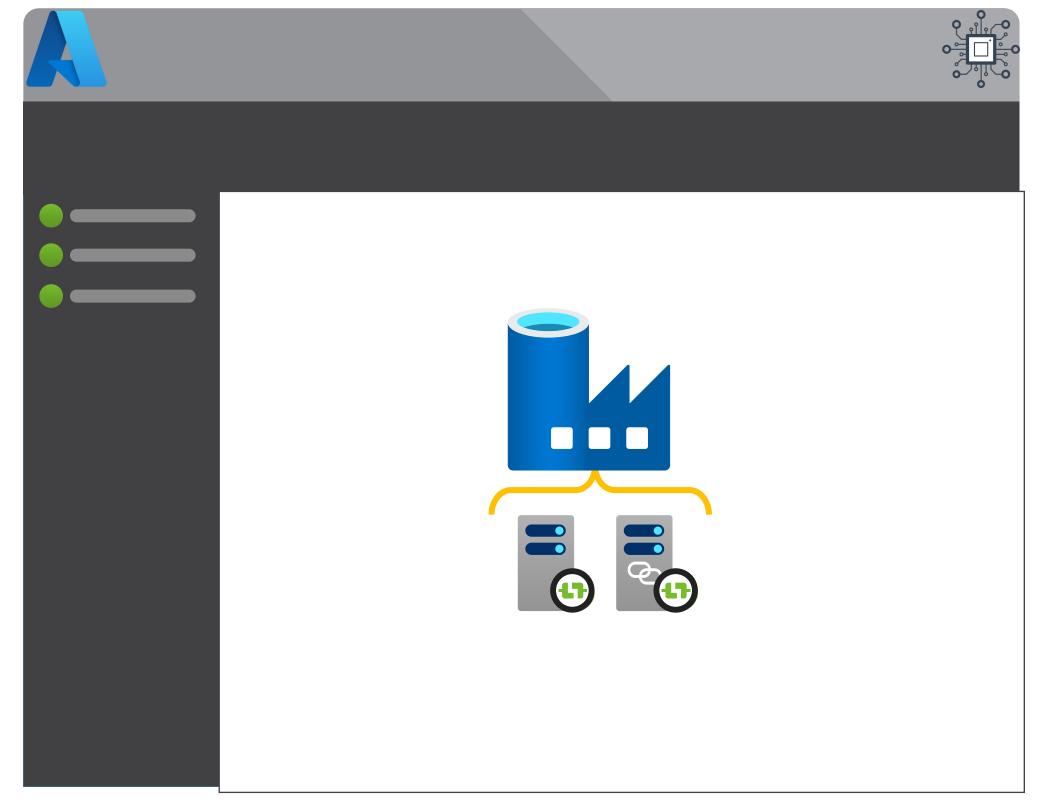


AutoResolveIntegrationRuntime



Module 2

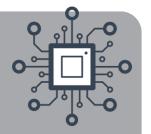
Integration Runtime Design Patterns



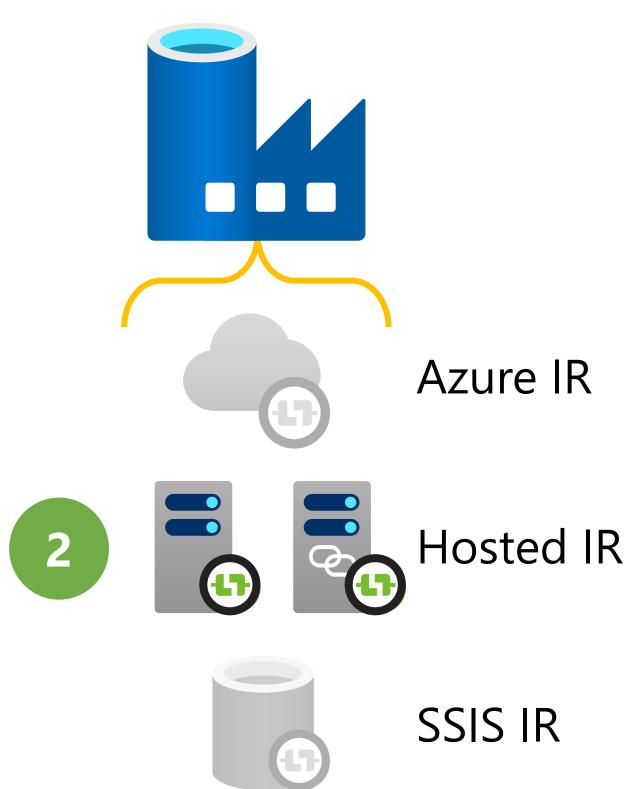
- Compute Types
 - Azure
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 - SSIS
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What can an Integration Runtime do?



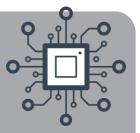


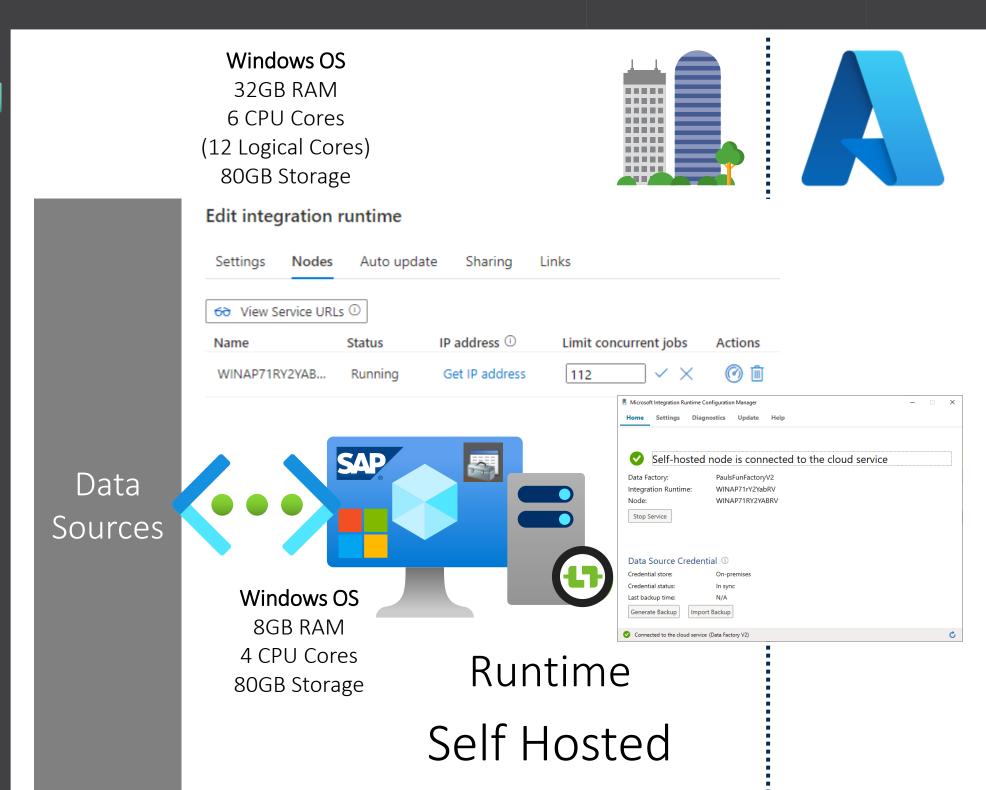


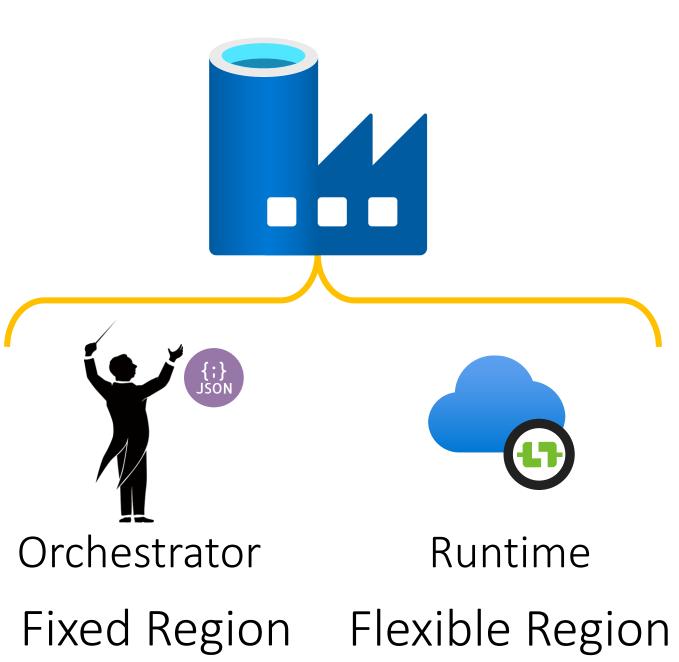




Hosted Integration Runtime

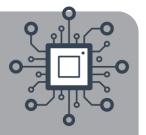


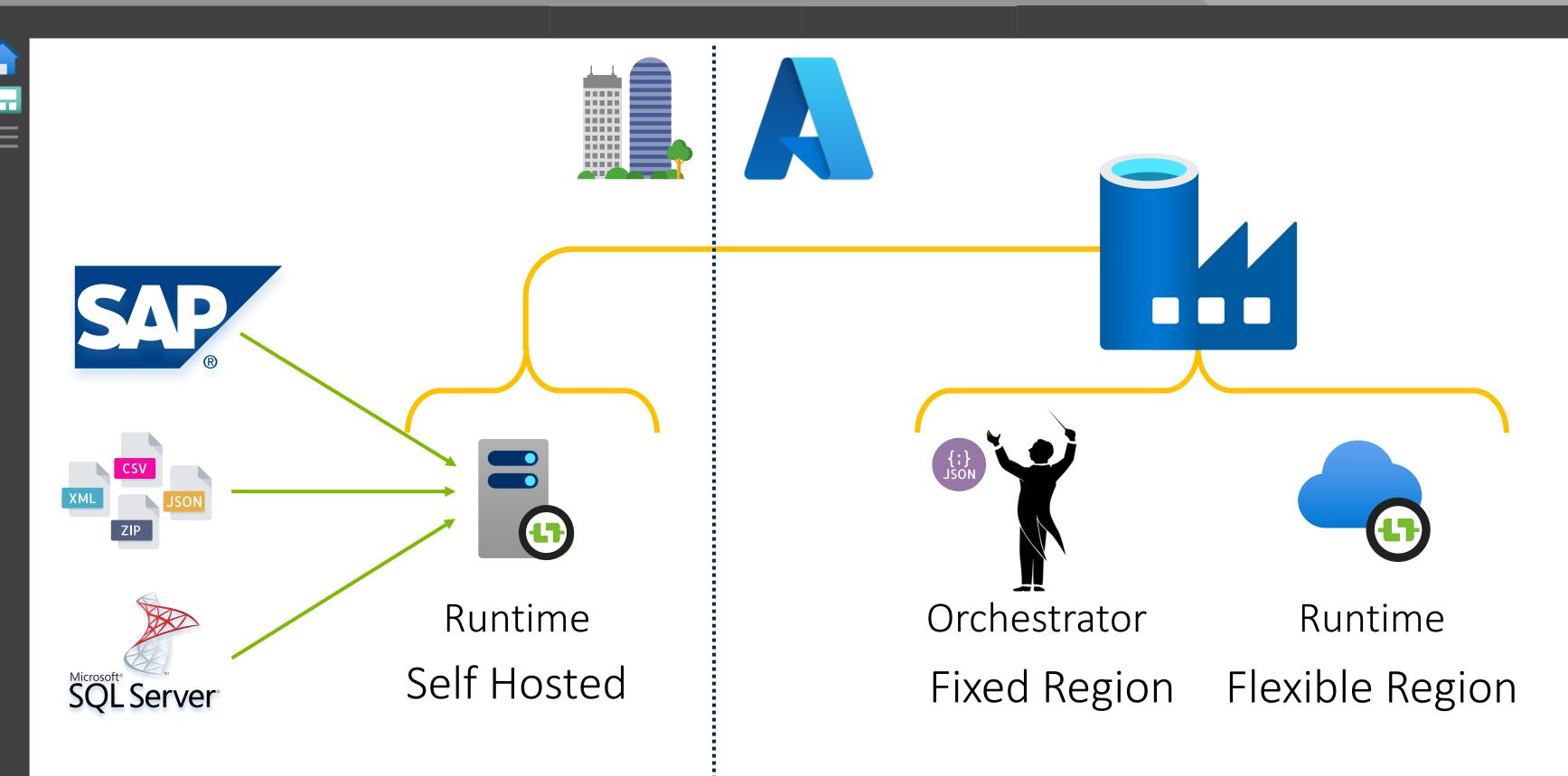






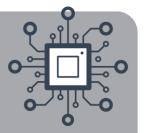
Hosted Integration Runtime

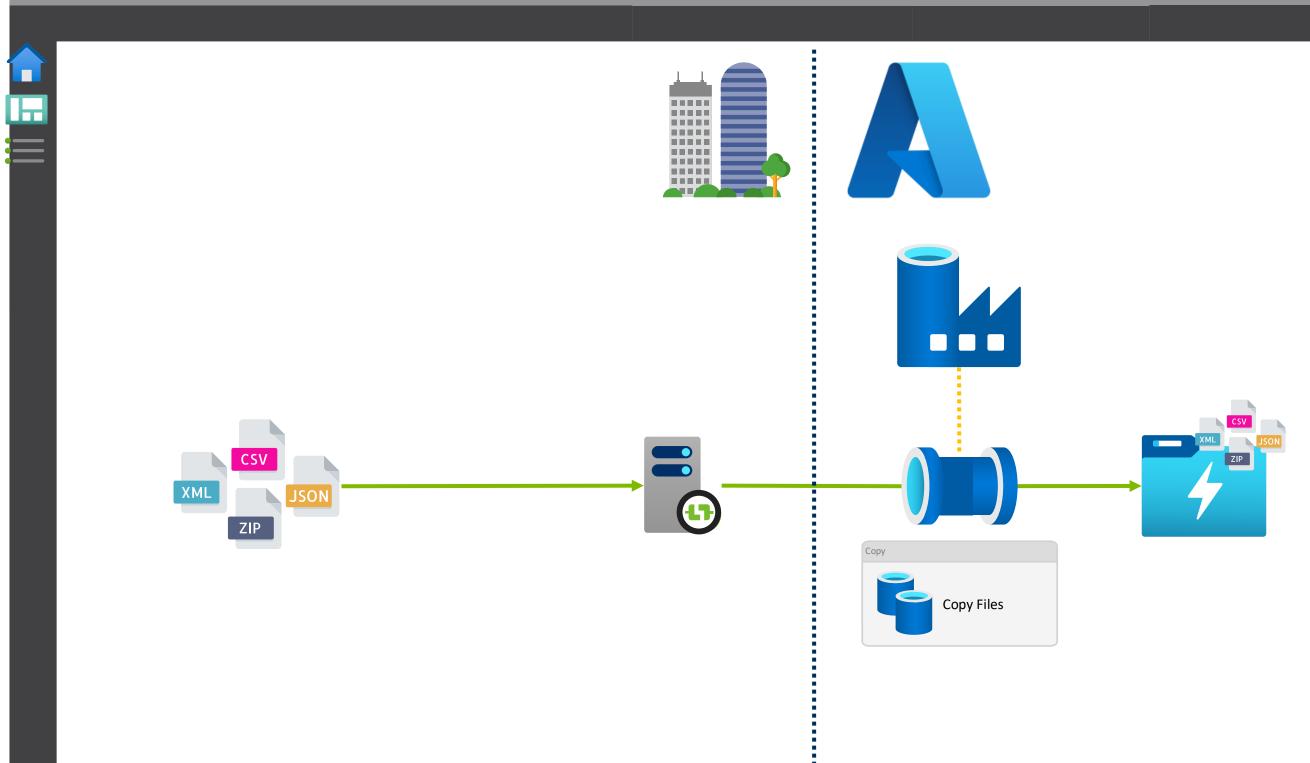






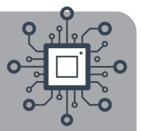
Single Hosted IR

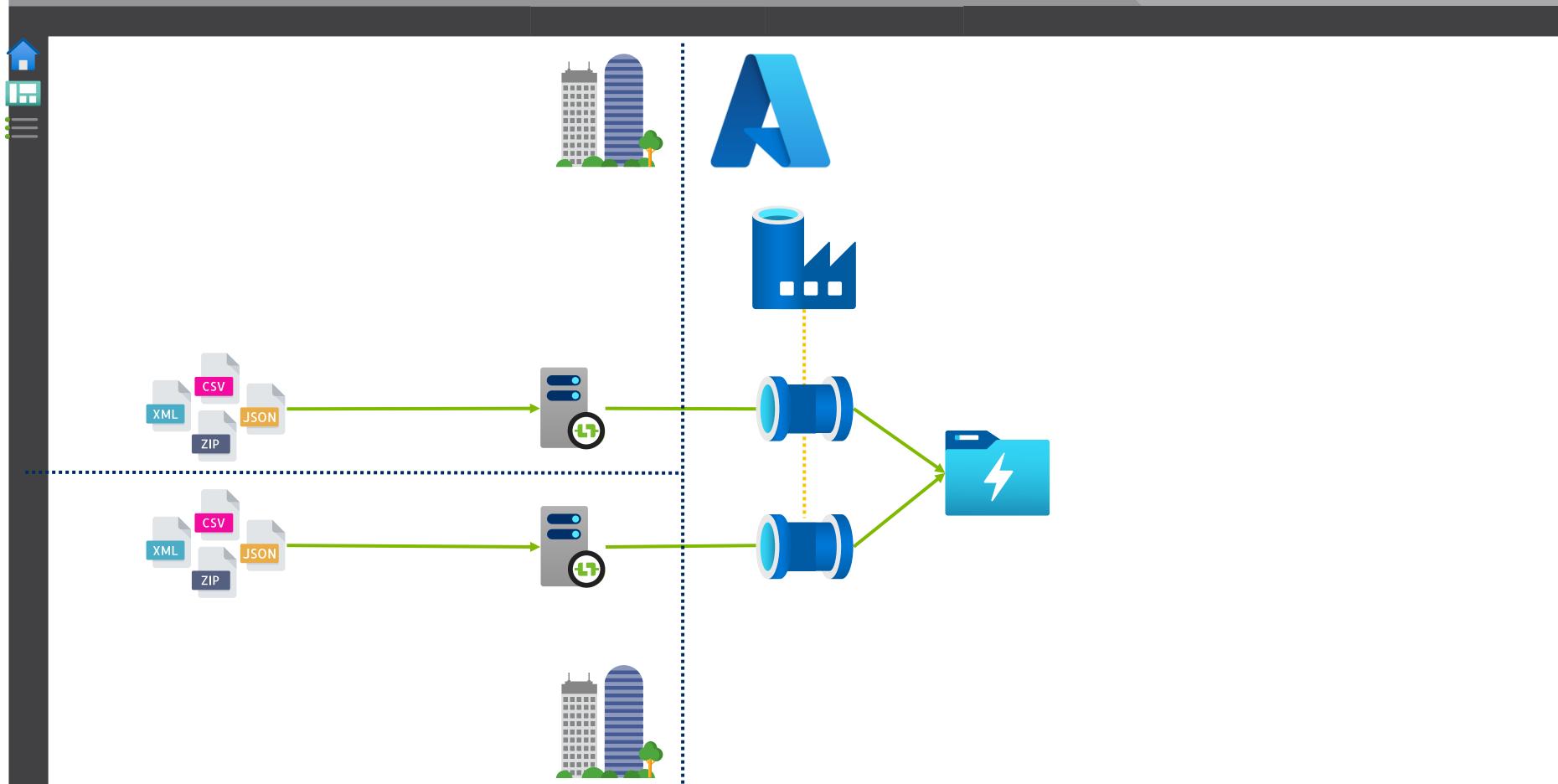


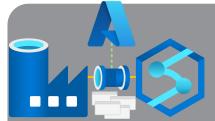




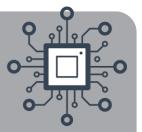
Multiple Hosted IR's at Different Sites

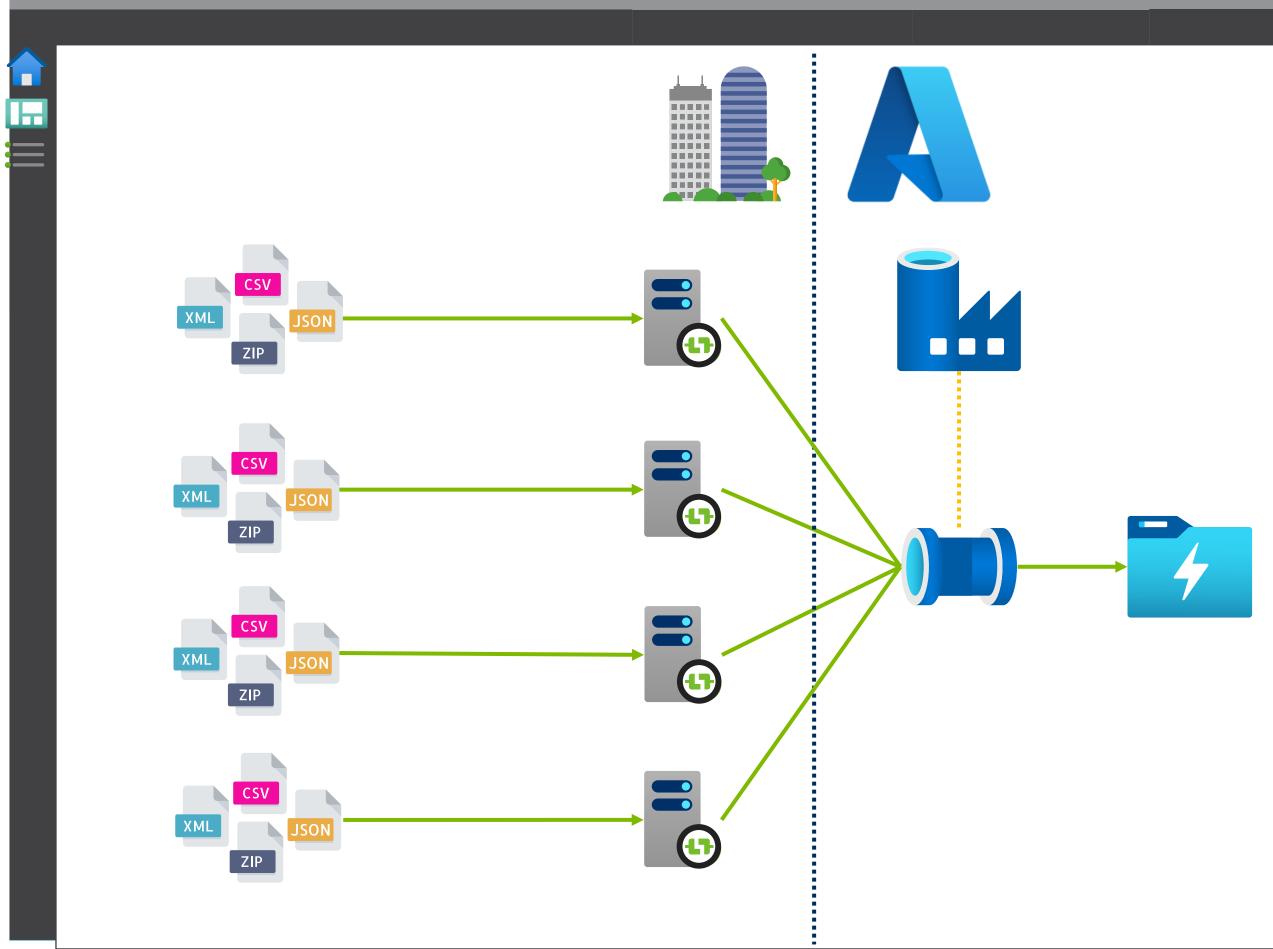






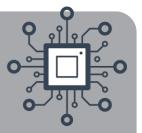
Multiple Hosted IR's as Separate Endpoints

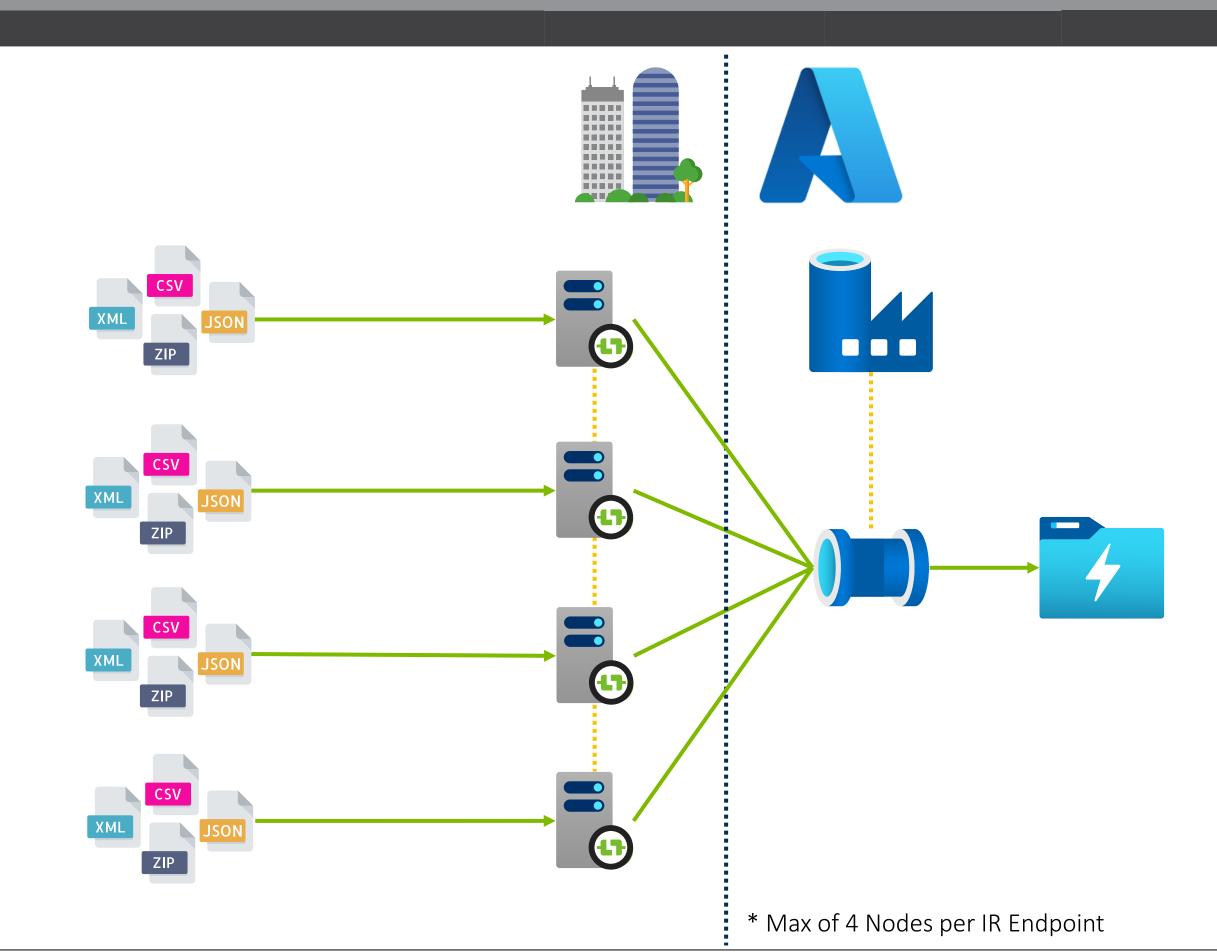






Single Hosted IR with Multiple Nodes

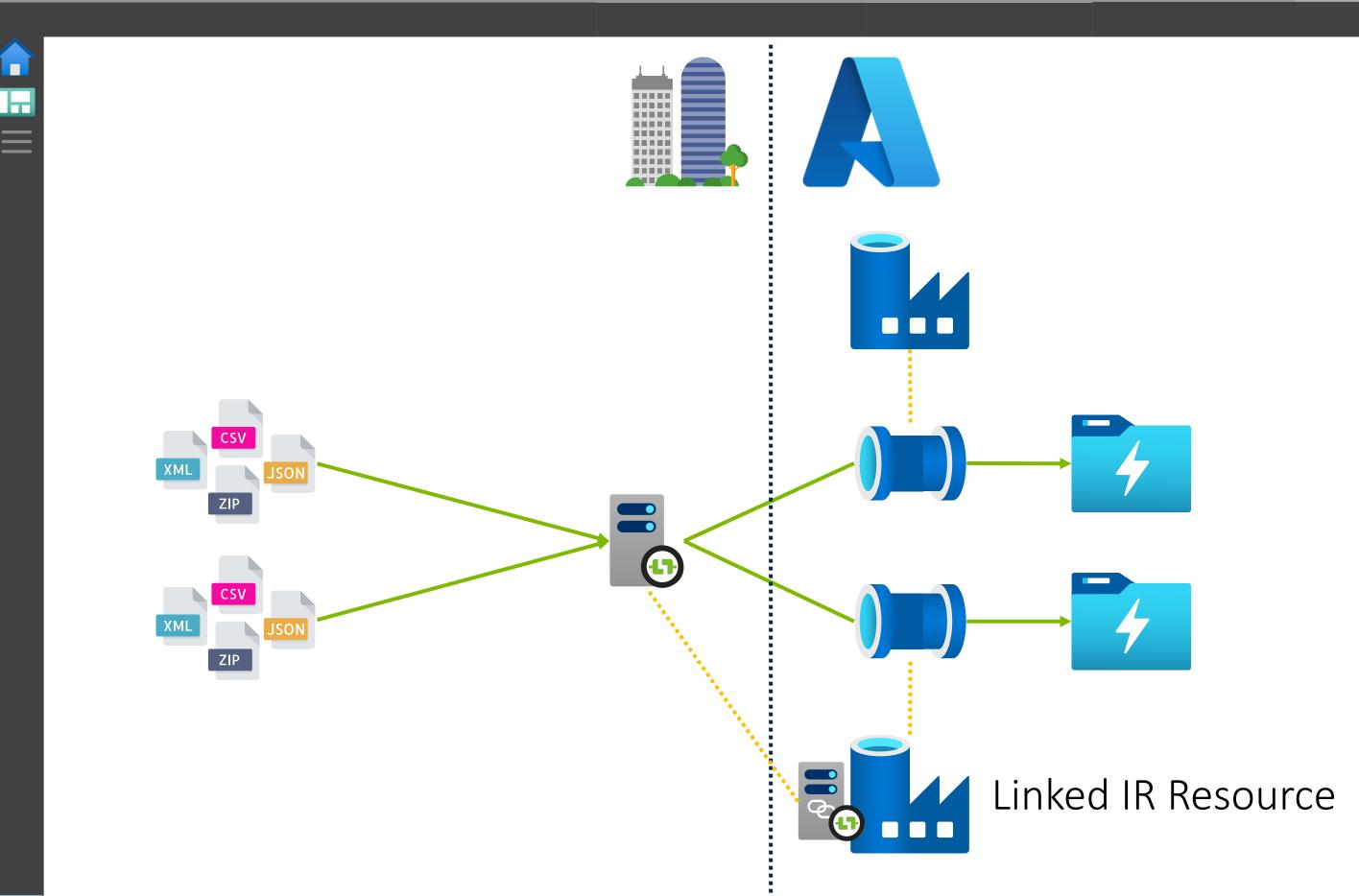






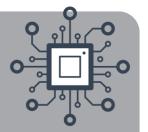
Single Hosted IR Linked to Multiple Data Factories

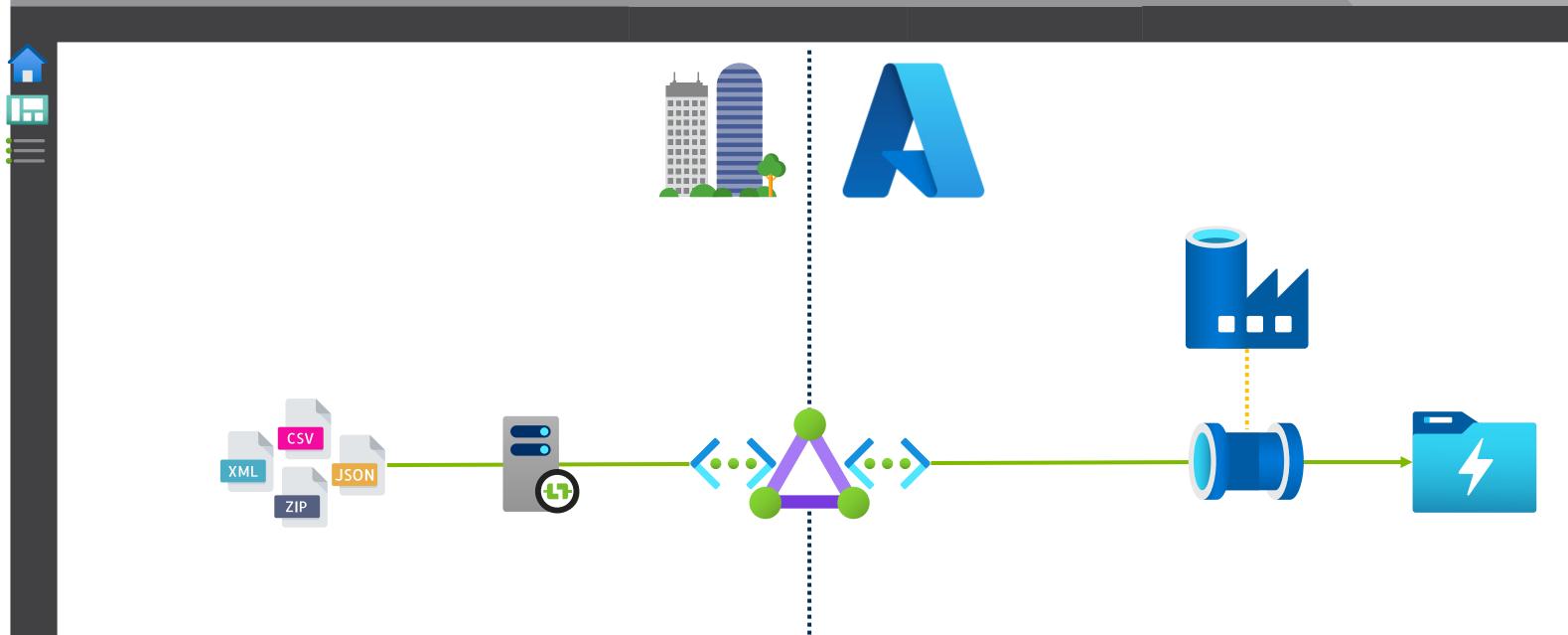






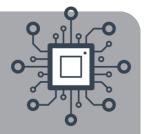
Hosted IR's with Express Route Connections

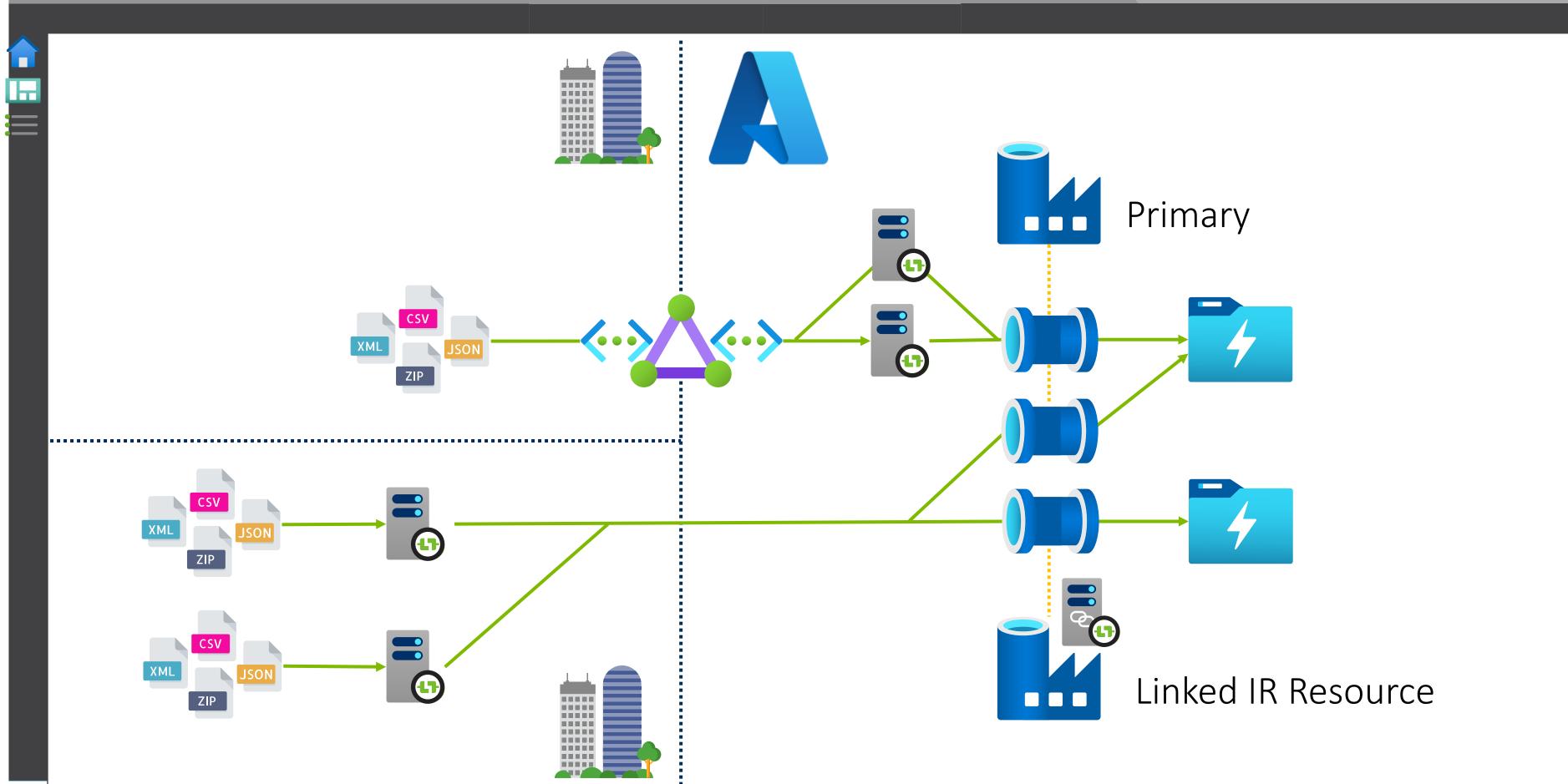


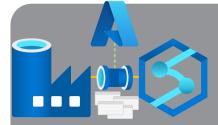




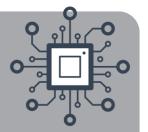
Hosted IR Combinations

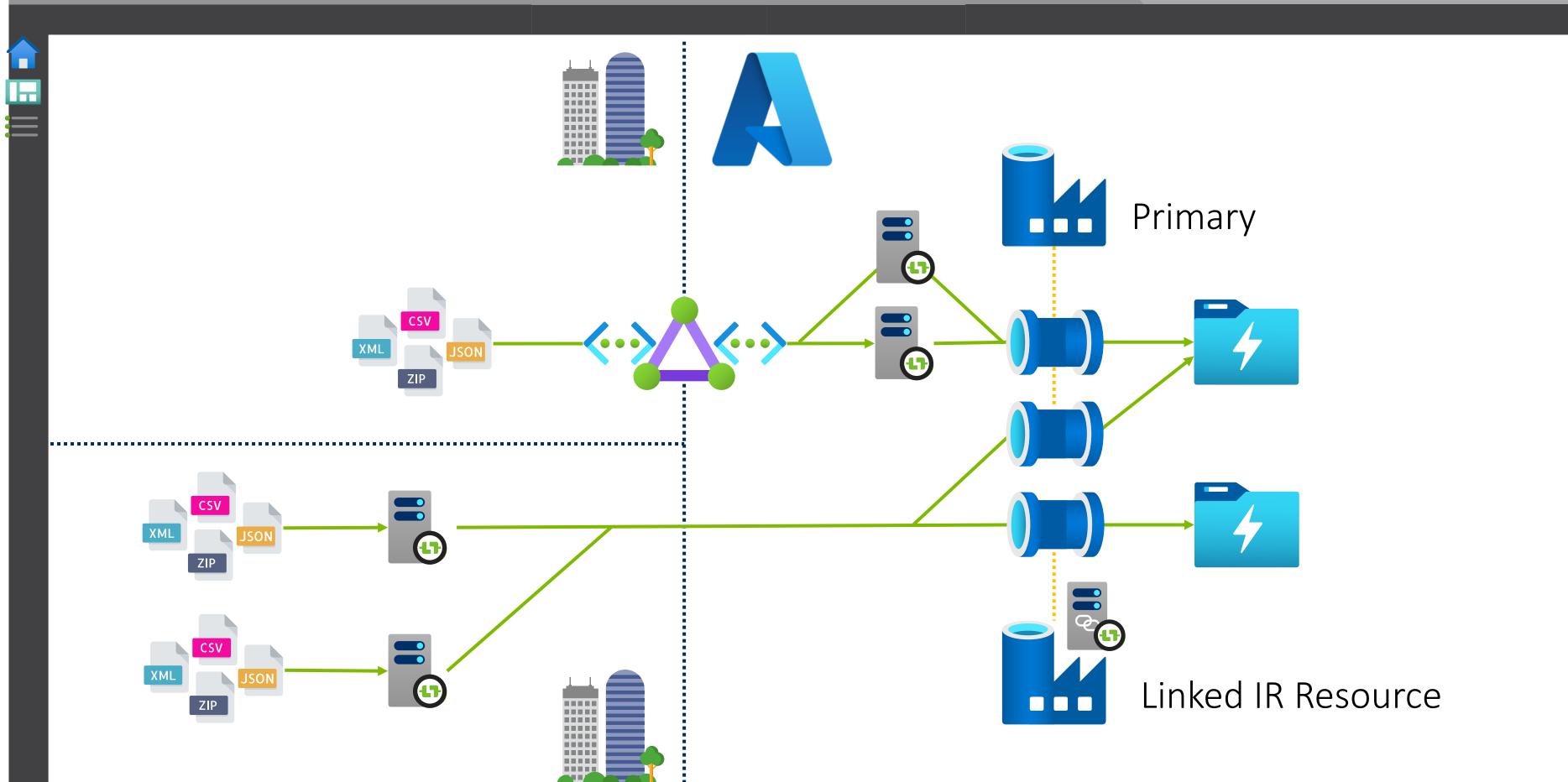






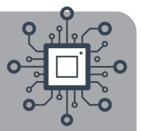
Horizontal vs Vertical Environment Processing

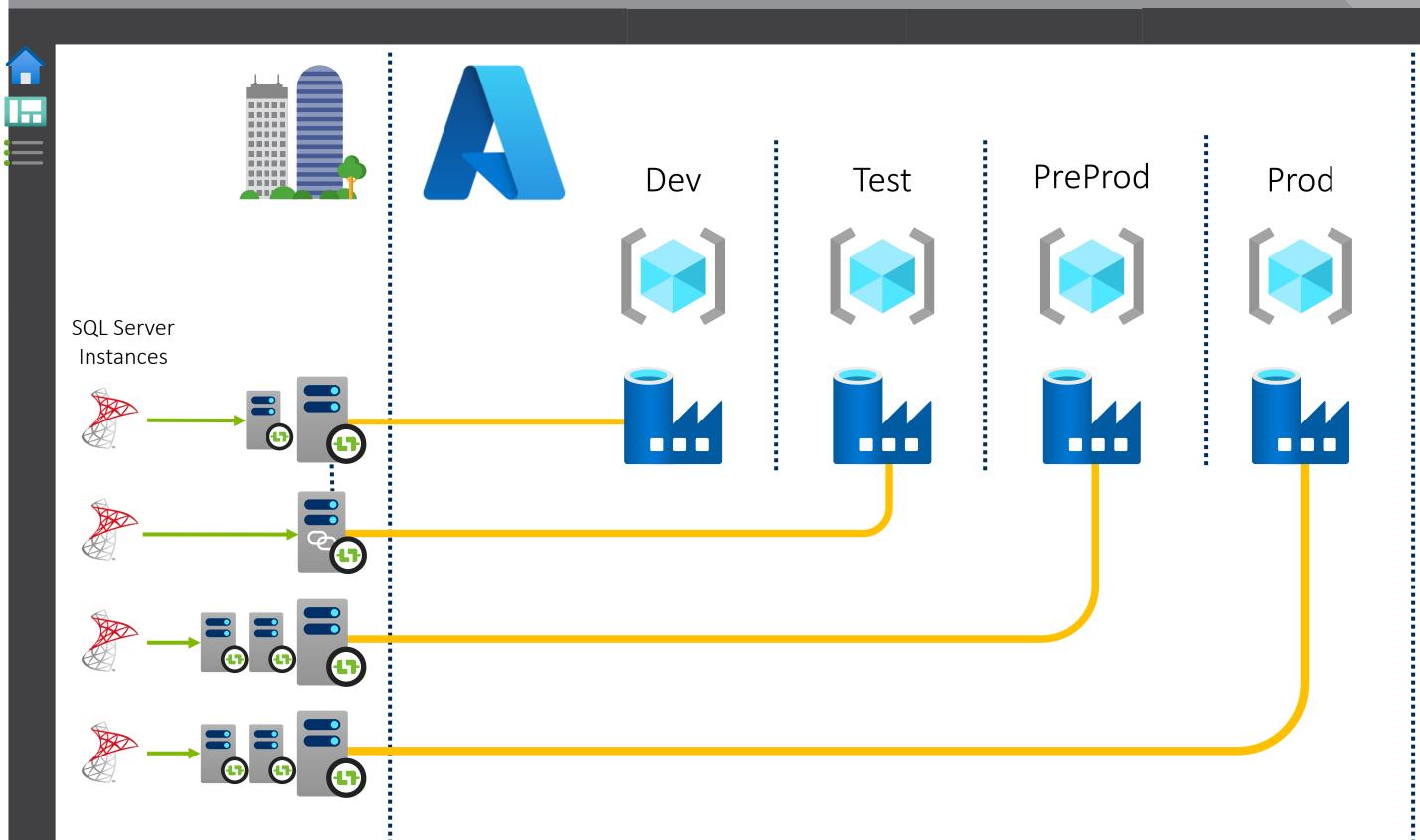






Hosted IR's vs Environments





25x Sites 4x Environments

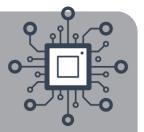
2x IR's for Dev 1x Linked IR for Test (from Dev)

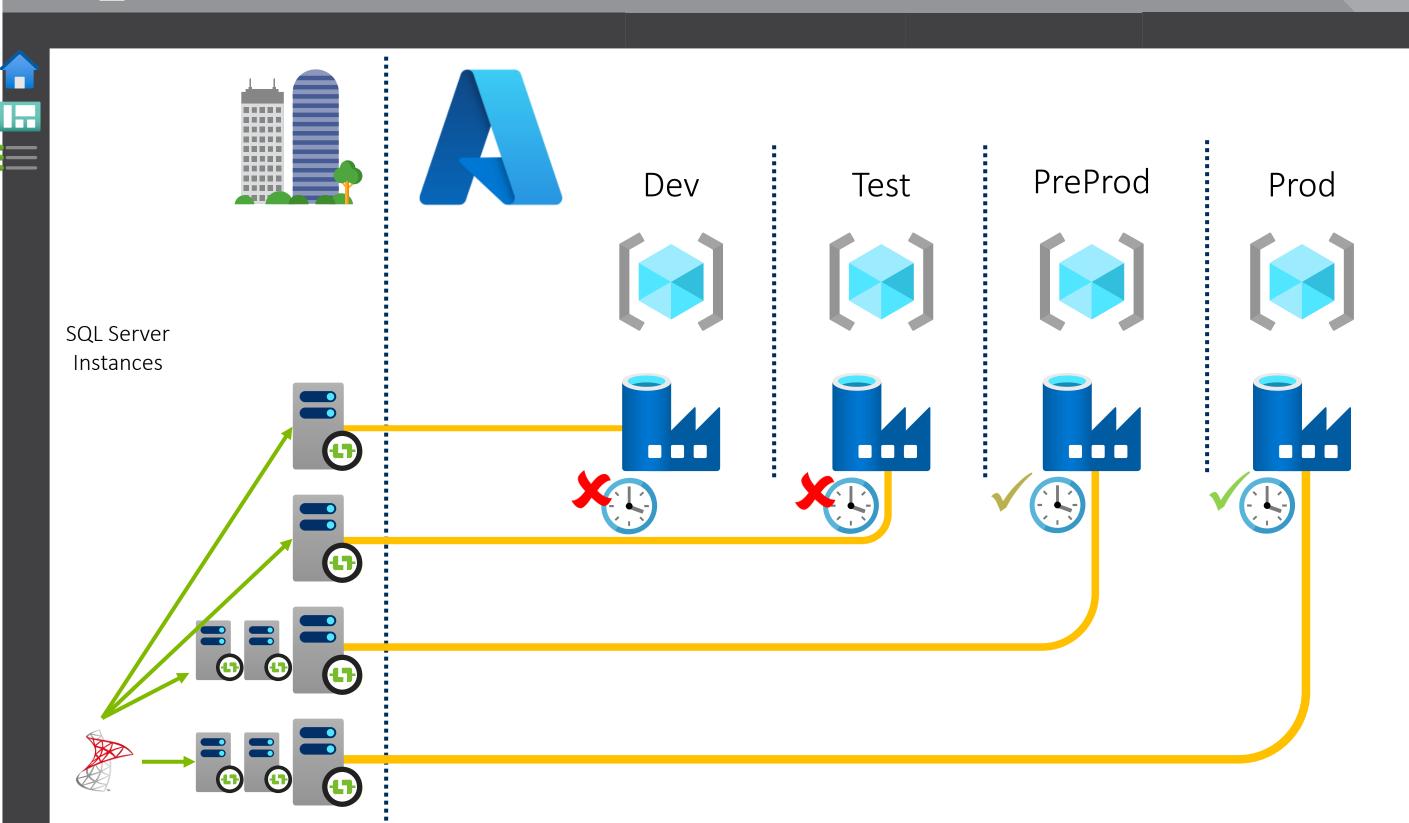
3x IR's for PreProd 3x IR's for Prod

8x Virtual Machines per Site 200x Virtual Machines Total



Hosted IR's vs Environments





25x Sites4x Environments

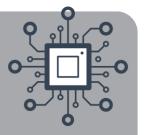
2x IR's for Dev 1x Linked IR for Test (from Dev)

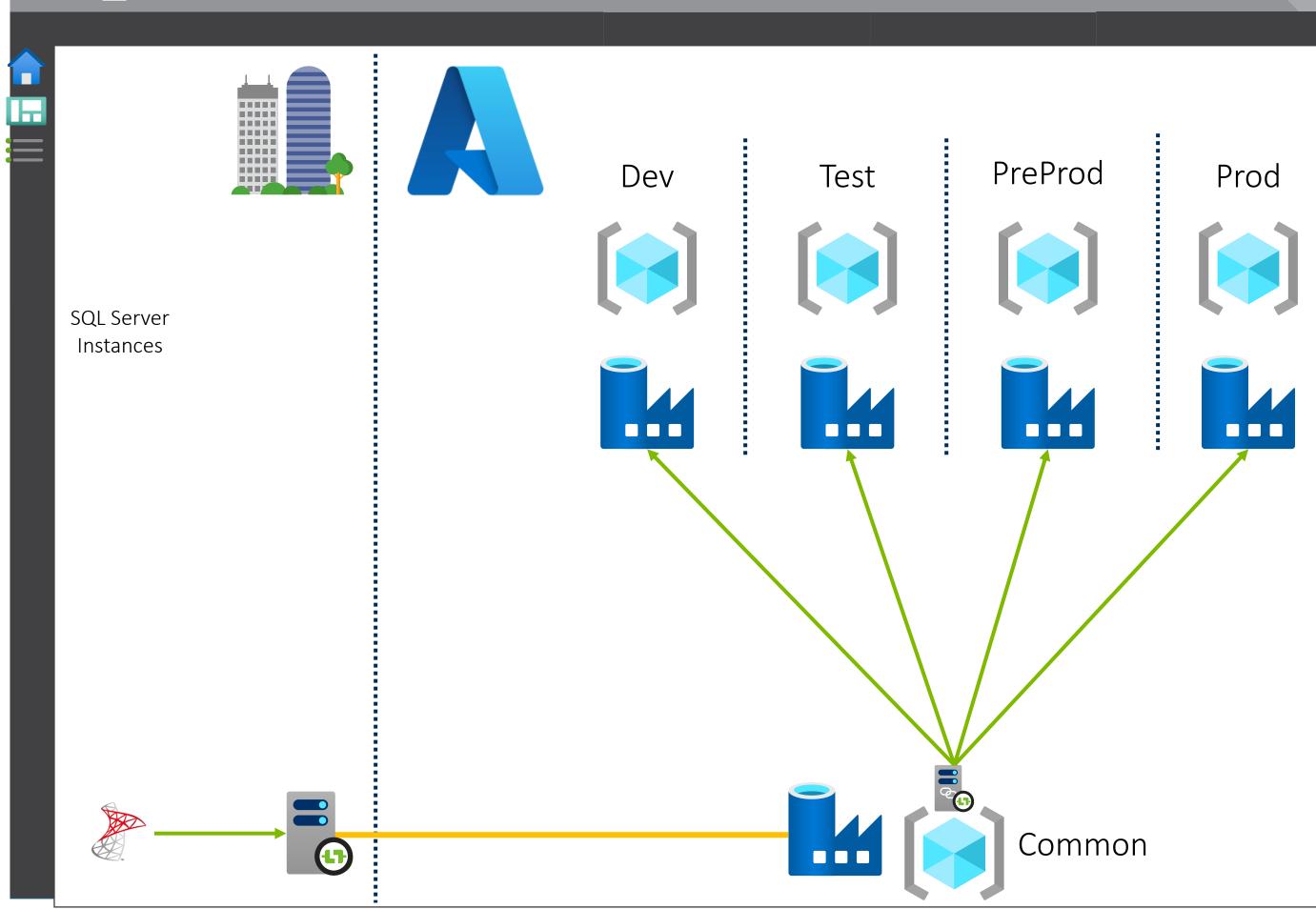
3x IR's for PreProd 3x IR's for Prod

8x Virtual Machines per Site 200x Virtual Machines Total



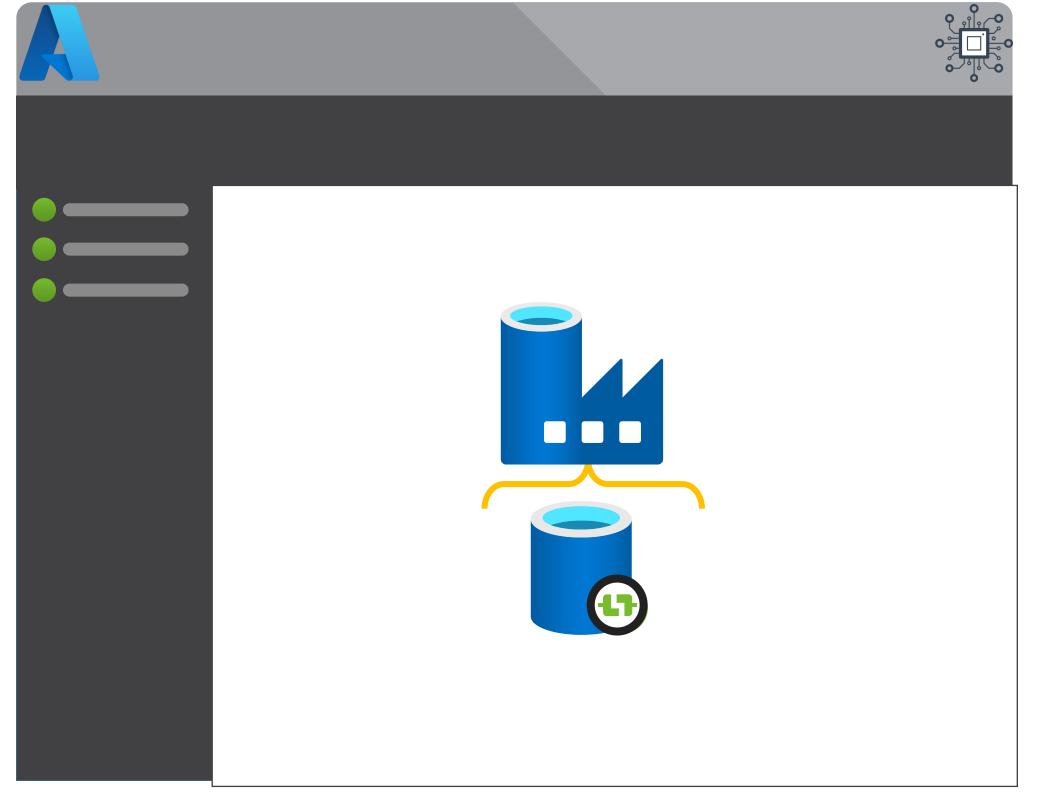
Hosted IR's vs Environments





Module 2

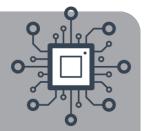
Integration Runtime Design Patterns



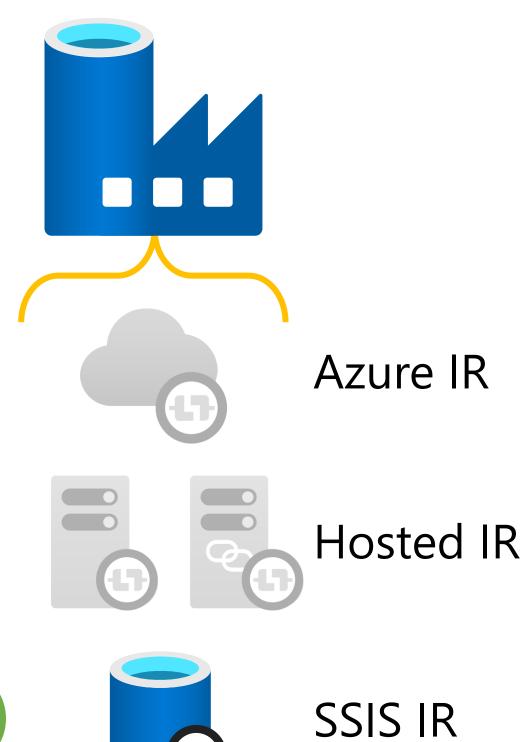
- Compute Types
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What can an Integration Runtime do?





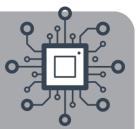








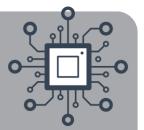
Running an SSIS Package in Azure

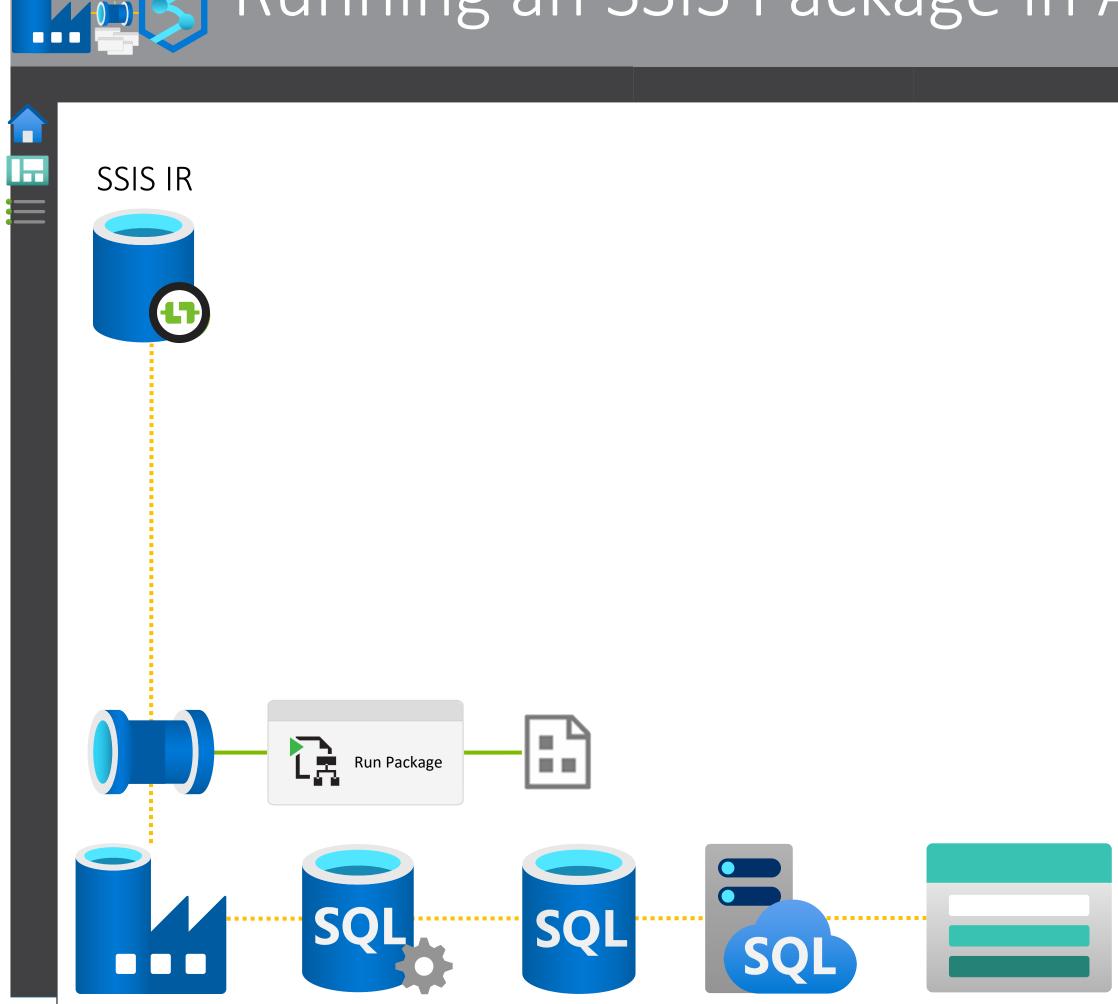






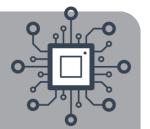
Running an SSIS Package in Azure

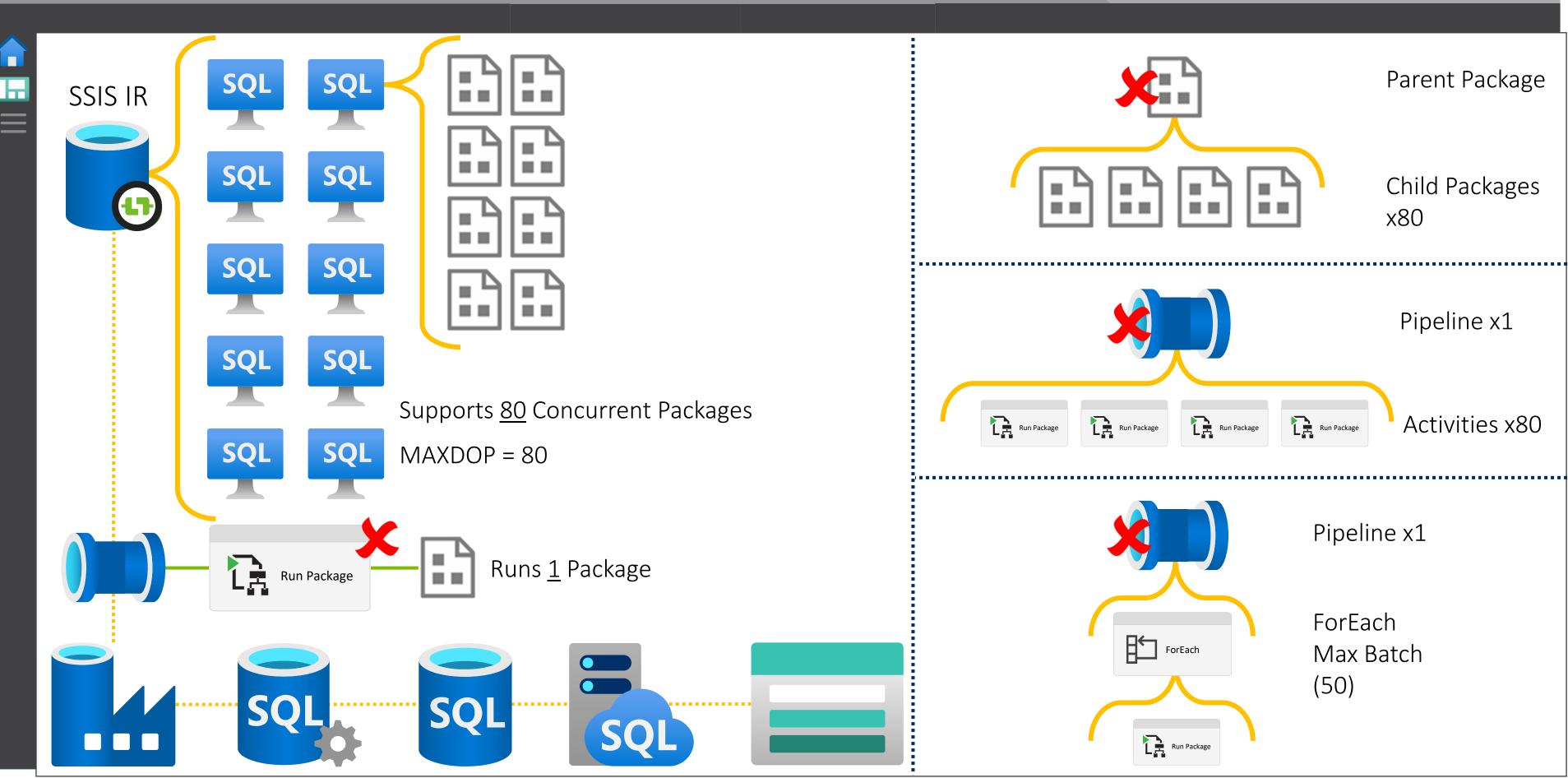






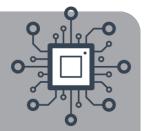
Problem: Using All Of The SSIS IR Compute

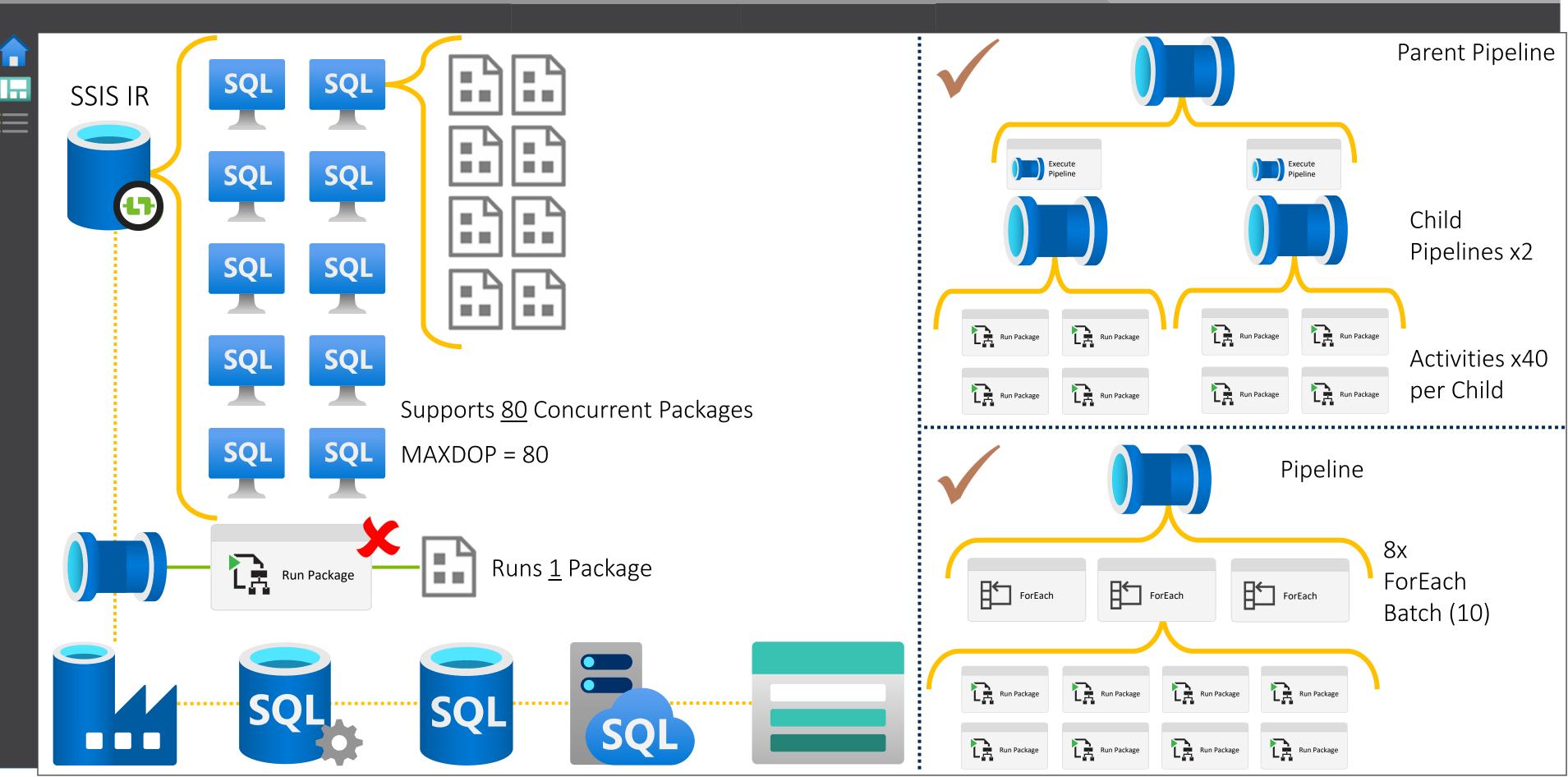






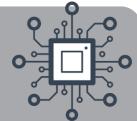
Solution 1 & 2: Static Pipelines

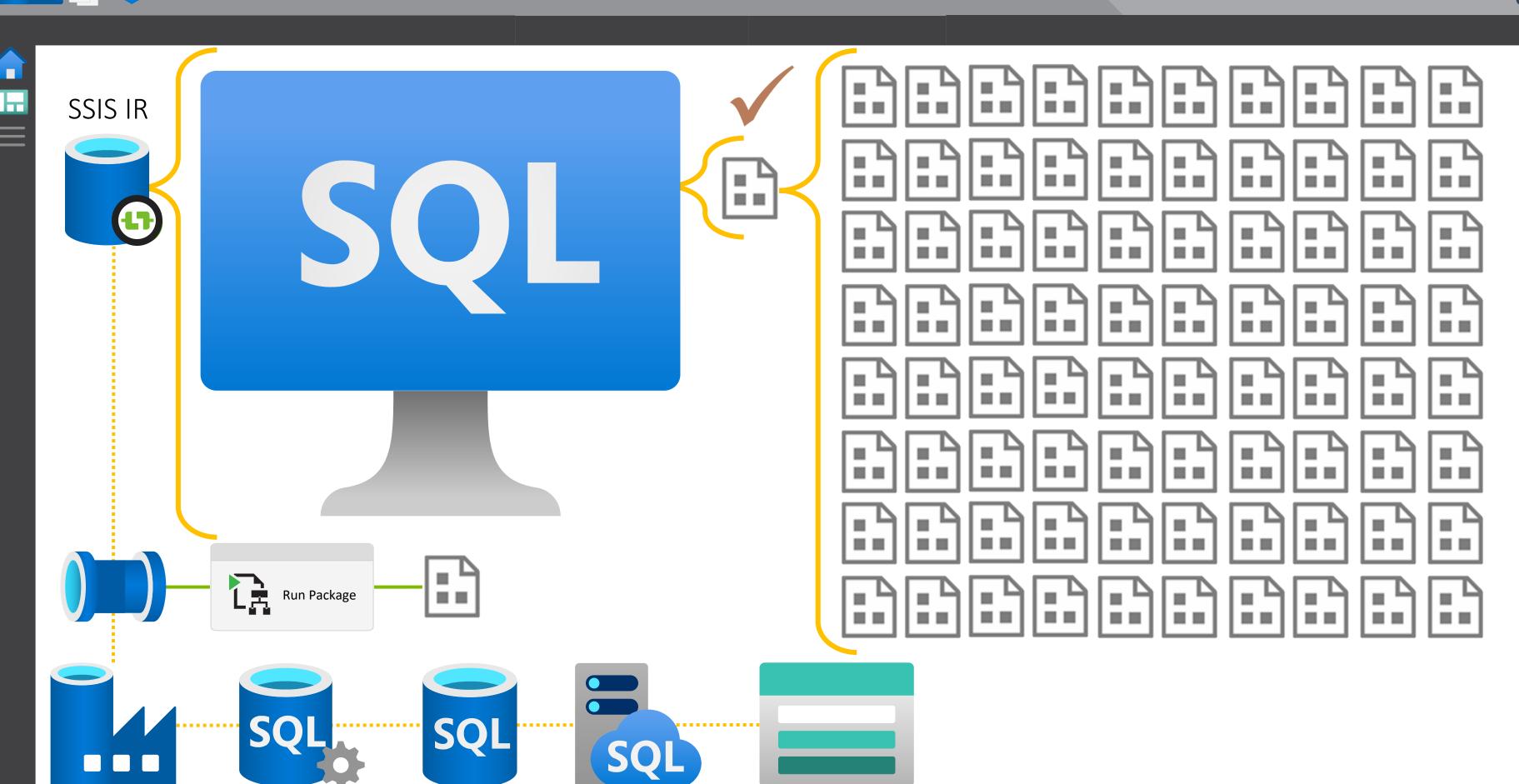






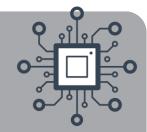
Solution 3: Packages Refactored on a Single Node IR

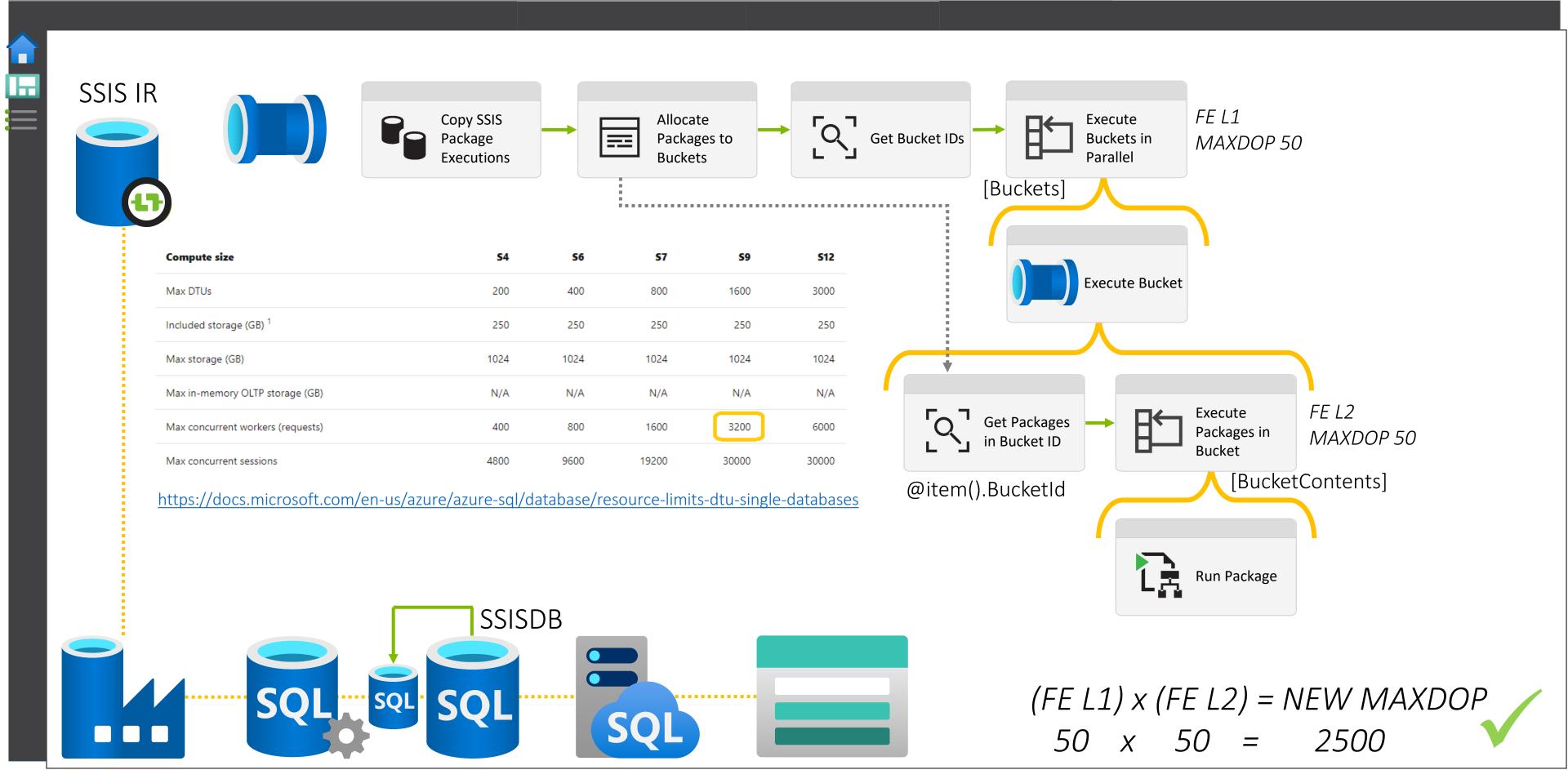






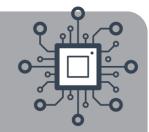
Solution 4: Nested ForEach Activities & Bucket Metadata

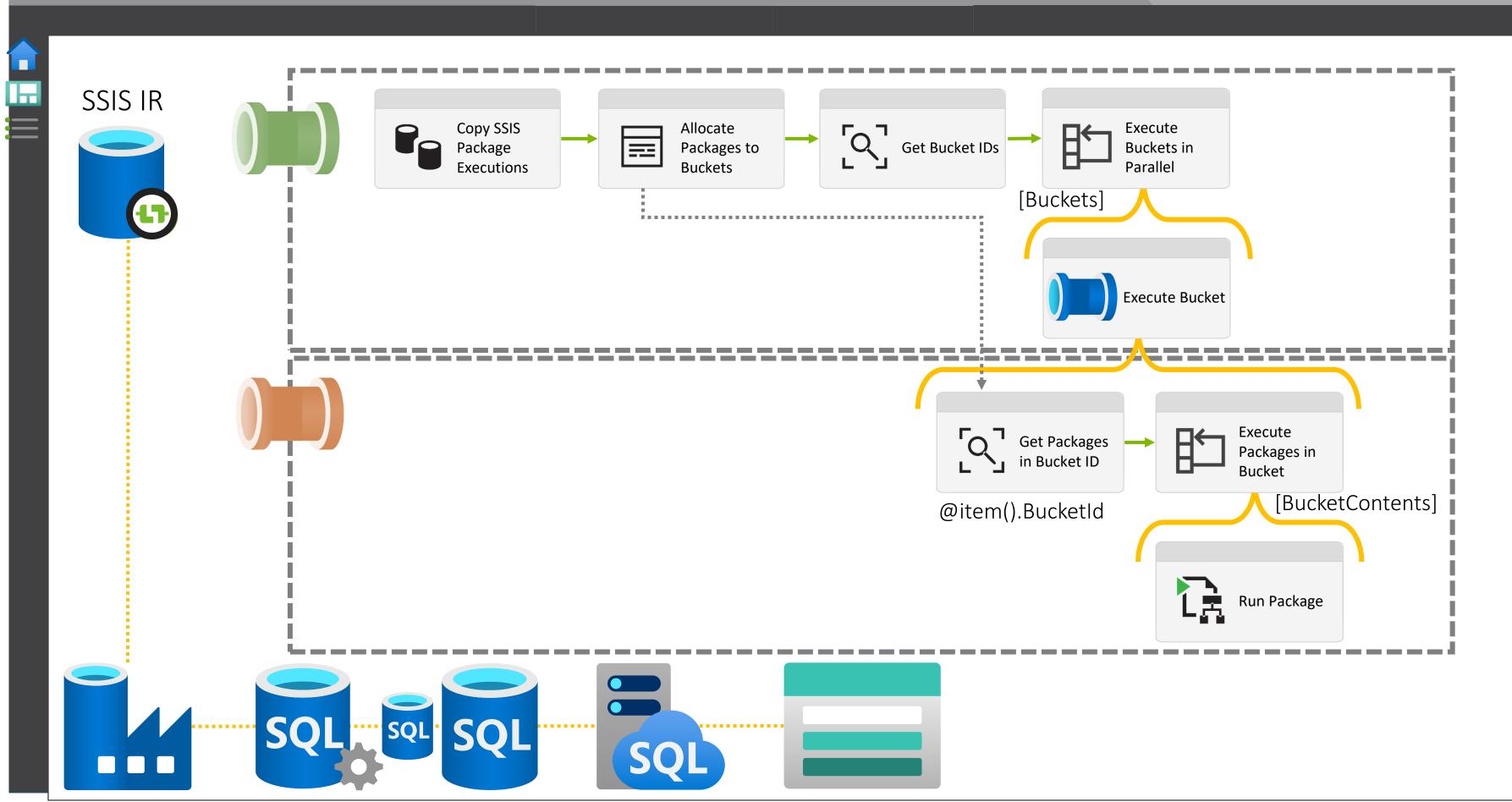


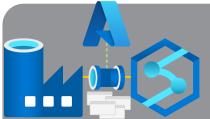




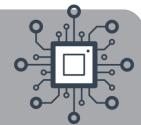
Solution 4: Nested ForEach Activities & Bucket Metadata

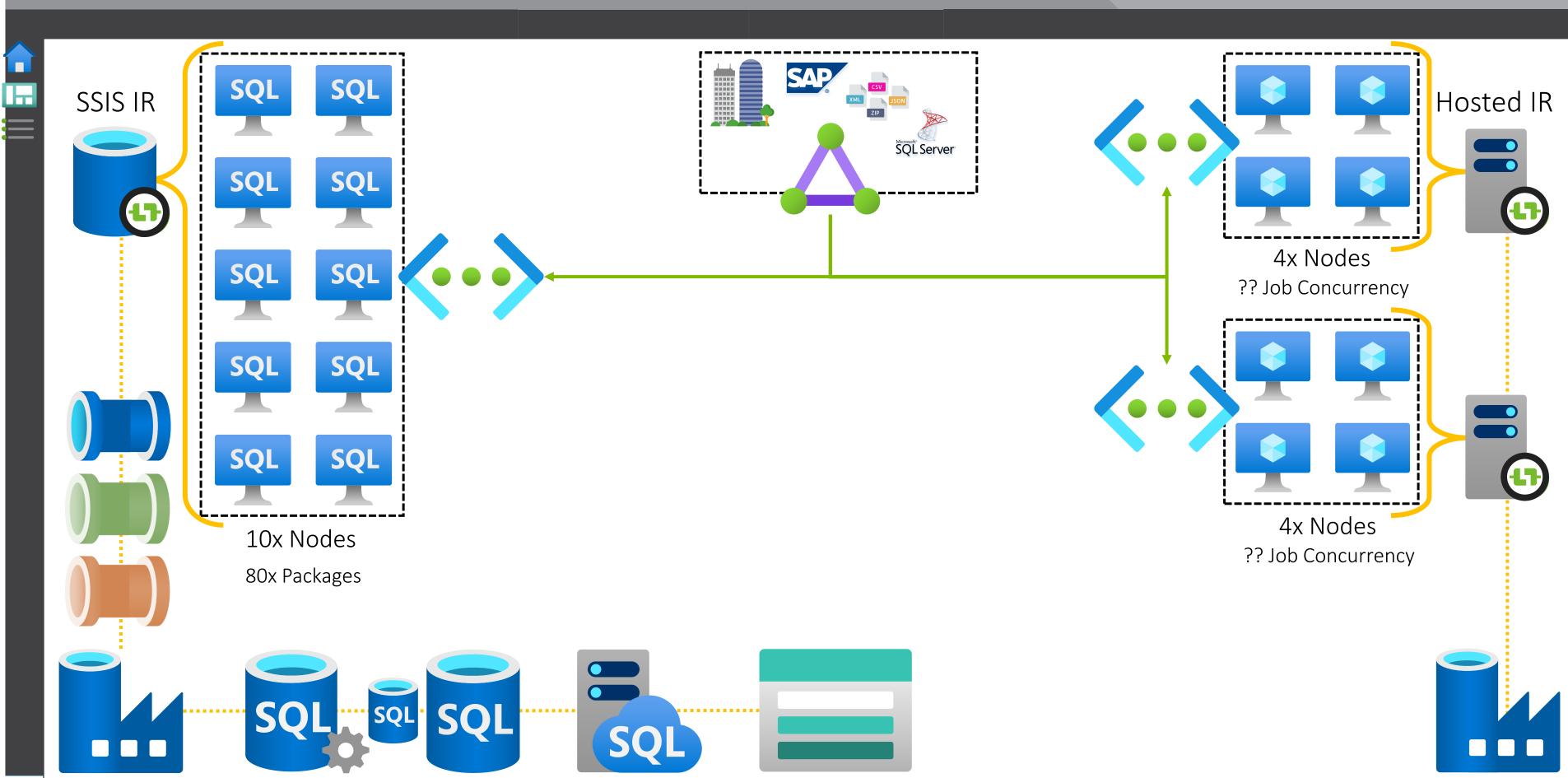






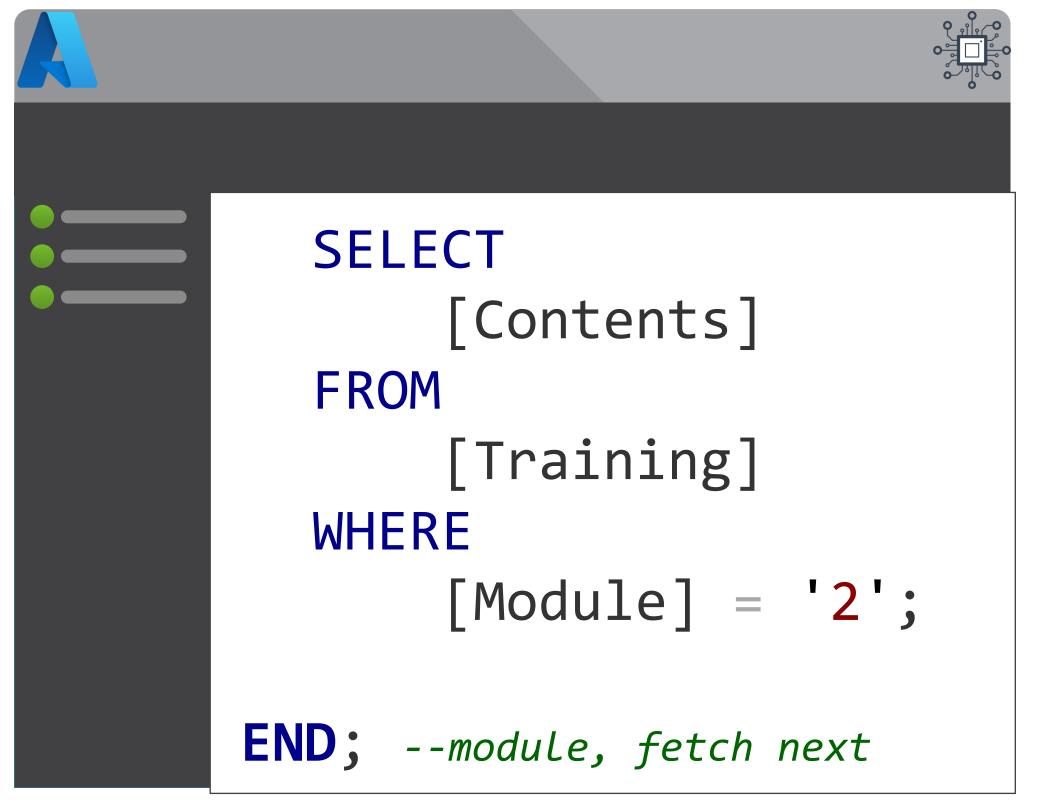
What are the advantages of using this pattern?





Module 2

Integration Runtime Design Patterns



- Compute Types
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