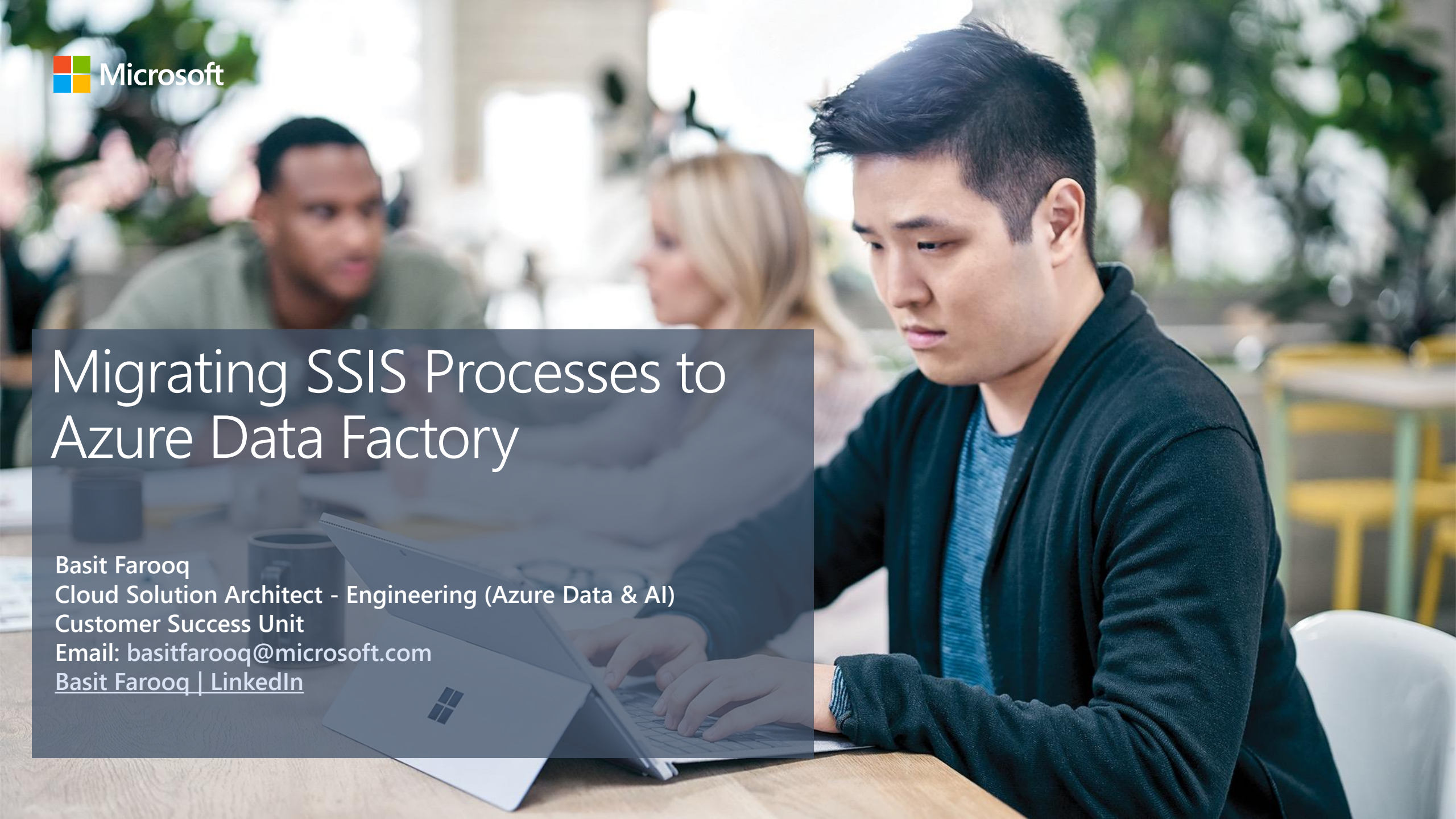
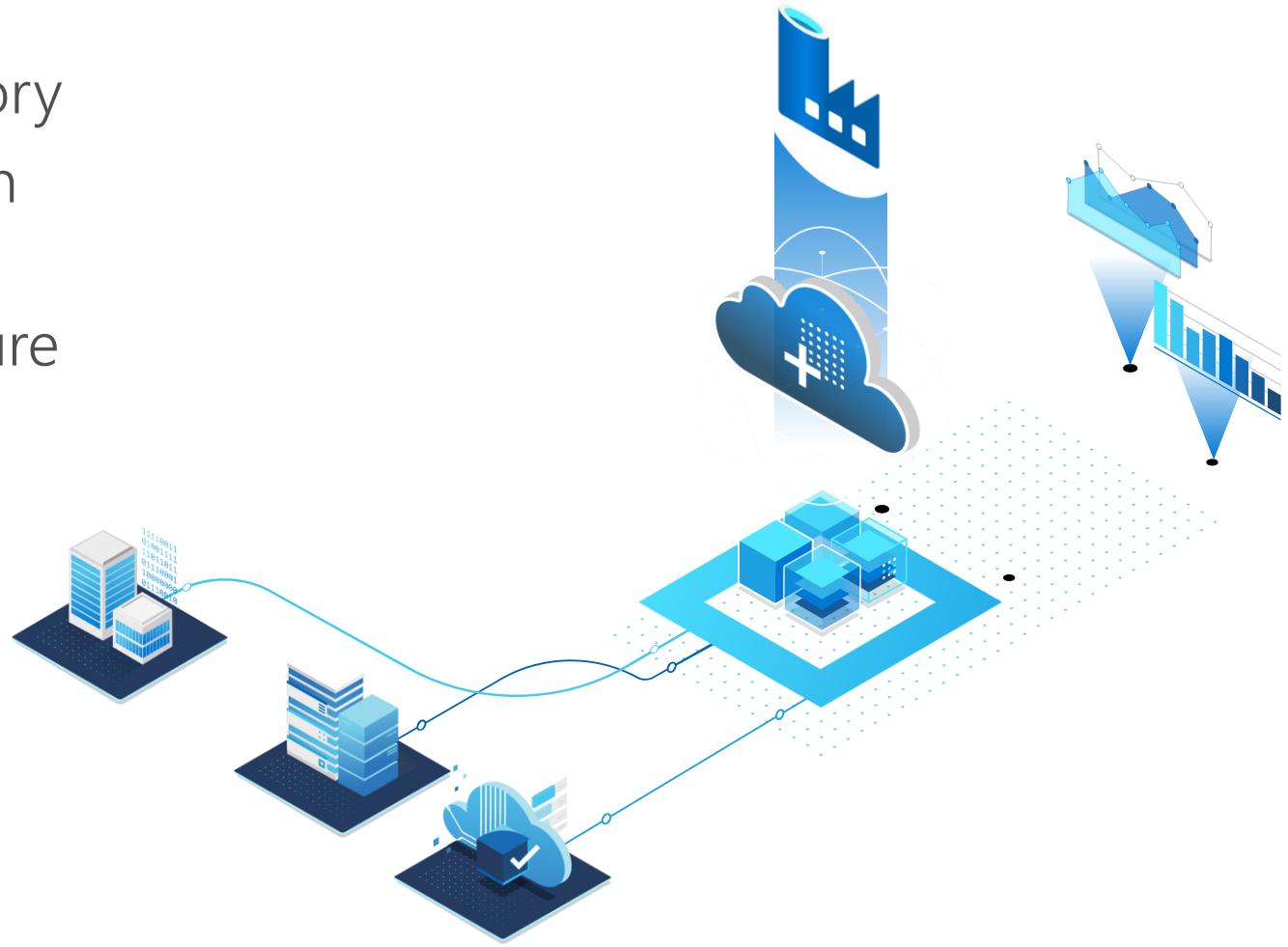


Migrating SSIS Processes to Azure Data Factory

Basit Farooq
Cloud Solution Architect - Engineering (Azure Data & AI)
Customer Success Unit
Email: basitfarooq@microsoft.com
Basit Farooq | LinkedIn

AGENDA

- Introduction to Azure Data Factory
- Steps to rehost SSIS workloads in Azure Data Factory
- Pricing up SSIS workloads in Azure Data Factory
- Demo



AZURE DATA FACTORY

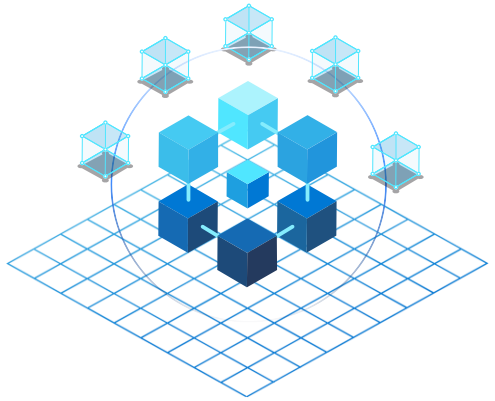
Hybrid data integration, simplified

Easy-to-use

- Code-free ETL/ELT
- Rehost SSIS in a few clicks
- Built-in Git and CI/CD

Cost-effective

- Pay-as-you-go
- Fully managed, serverless
- Scales on demand



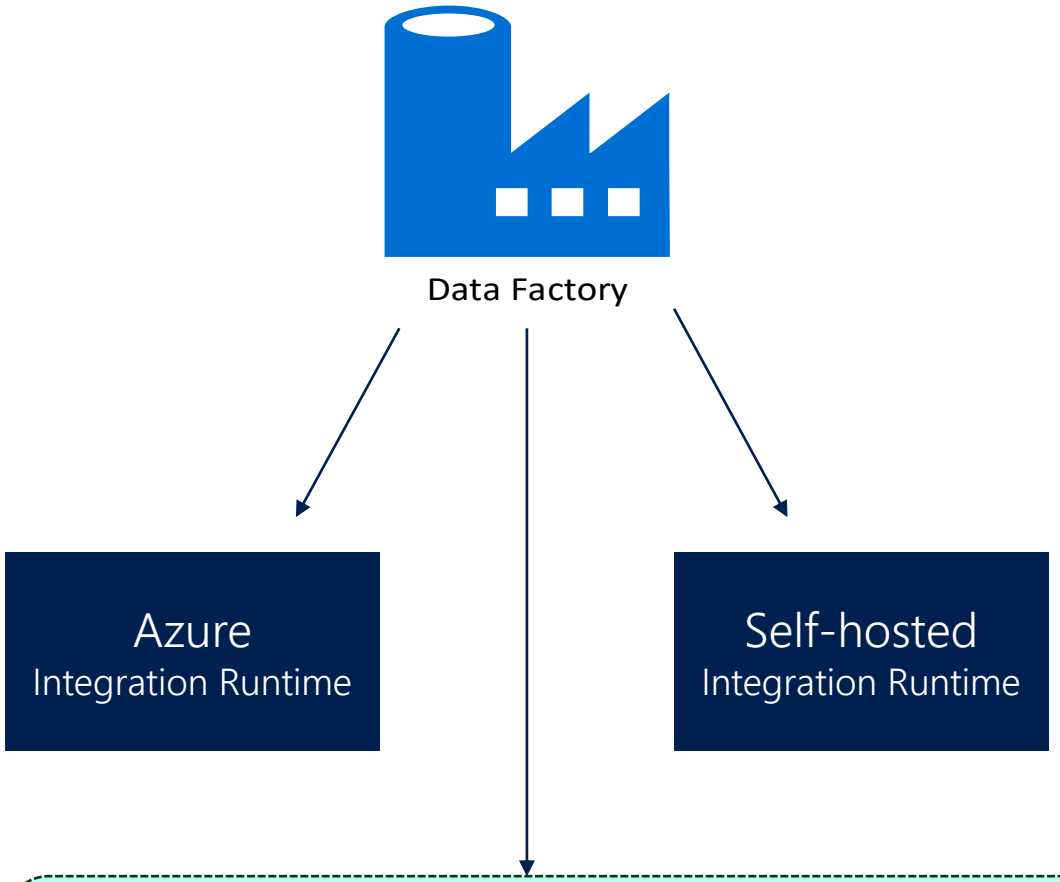
Powerful

- 100+ built-in connectors
- Orchestrate and monitor at scale

Intelligent

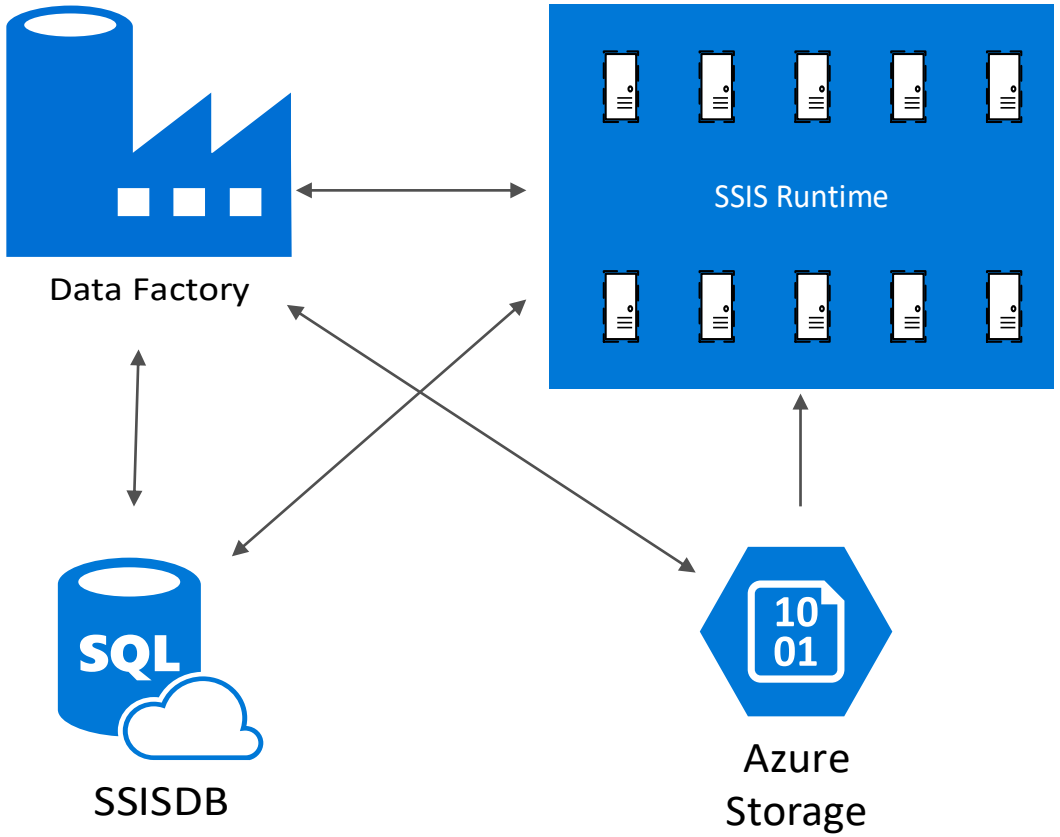
- Autonomous ETL
- AI-based intent-driven copy
- Predictive pipelines

AZURE DATA FACTORY & INTEGRATION RUNTIMES



- **Mapping Data Flows**: Execute a Data Flow in managed Azure compute environment.
- **Data movement**: Copy data across data stores in public network and data stores in private network (on-premises or virtual private network). It provides support for built-in connectors, format conversion, column mapping, and performant and scalable data transfer.
- **Activity dispatch**: Dispatch and monitor transformation activities running on a variety of compute services such as Azure Databricks, Azure HDInsight, Azure Machine Learning, Azure SQL Database, SQL Server, and more
- **SSIS package execution**: Natively execute SQL Server Integration Services (SSIS) packages in a fully managed Azure compute environment.

WHAT IS REQUIRED TO RUN SSIS IN AZURE?



Data Factory

- The administrative container that holds it all together
- Scheduling & Monitoring

SSIS Runtime – This is the engine room.

- Full PaaS service but is SSIS on VMs behind the curtain
- Can be scaled out to 10 node
- Can be scaled up to 80 cores & 504GB RAM
- Enterprise or Standard Edition

SSISDB

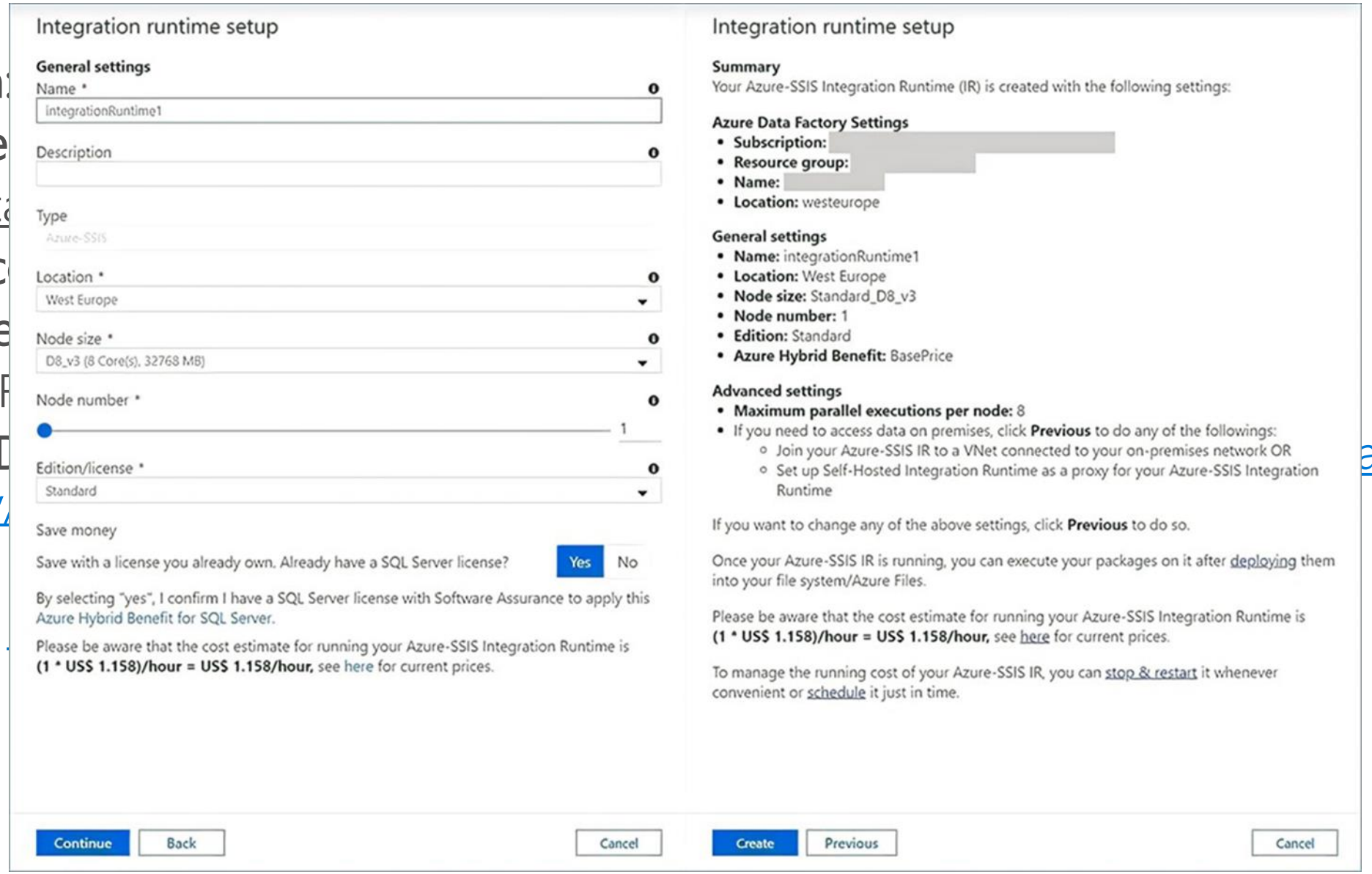
- Managed Instance
- Azure SQL DB

Azure Storage

- Custom SSIS components

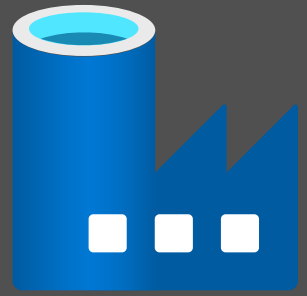
PRICING UP THE SOLUTION

- Region:
- Service
- Tier: Sta
- Instanc
- Numbe
- Hours F
- Azure D ails/data-factory/
- Pricing
- AHUB:



Demonstration

- Setting up Azure Data Factory (ADF)
- Setting up the SSIS Integration Runtime (IR) in ADF
- Upgrade a SSIS Package from 2008 to 2017
- Deploying SSIS package to SSIS IR in ADF
- Scheduling an SSIS package



Data Factory

USEFUL LINKS

- Azure-SSIS integration runtime. This article provides information about integration runtimes in general, including Azure-SSIS IR.
- Monitor an Azure-SSIS IR. This article shows you how to retrieve and understand information about your Azure-SSIS IR.
- Manage an Azure-SSIS IR. This article shows you how to stop, start, or delete your Azure-SSIS IR. It also shows you how to scale out your Azure-SSIS IR by adding more nodes.
- Deploy, run, and monitor SSIS packages in Azure
- Connect to SSISDB in Azure
- Connect to on-premises data sources with Windows authentication
- Schedule package executions in Azure
- How to start and stop Azure-SSIS Integration Runtime on a schedule

https://www.youtube.com/watch?v=9GvXaPRdD4Y&t=7s
https://www.youtube.com/watch?v=4_wEbfVtCZs&t=783s

Q&A

Feedback Survey!

1. If you need to implement an NSG for the subnet used by your Azure-SSIS IR …
   Join an Azure-SSIS integration runtime to a virtual network - Azure Data Factory | Microsoft Docs