

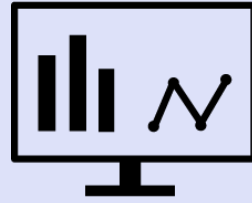
Data Capability



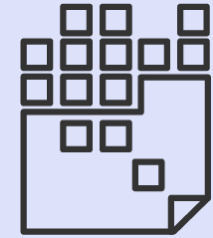
Services Offering



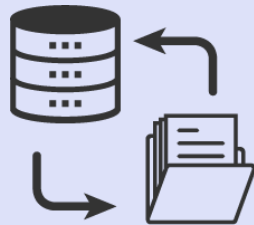
DATA STRATEGY



BUSINESS INTELLIGENCE



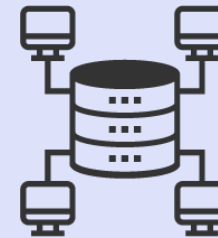
ADVANCED ANALYTICS



DATA MIGRATION



DATA MANAGEMENT



DATA WAREHOUSE

“NashTech has the scale and experience to accelerate the execution of your data strategy.”

Composable Data & AI landscape

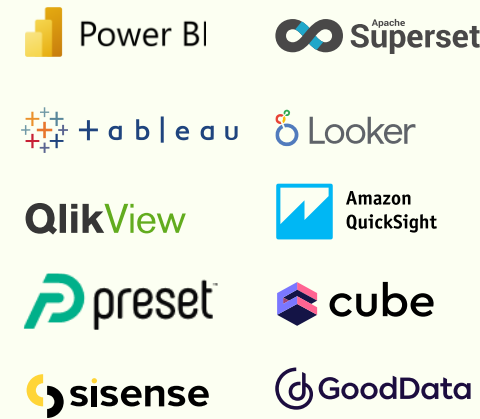
Database



Data lake, Data warehouse



Business Intelligence



AI/ML



Languages



ETL/ELT



Reverse ETL



DataOps, MLOps



Data governance



CDP



CDP



Data migration capability



Experience at NashTech – migration scenarios

On-premise to on-premise

- ✓ Migrate from Oracle to MS SQL
- ✓ Migrate from MS SQL to Neo4j(NoSQL)
- ✓ Migrate from Oracle to PostgreSQL

On-premise to Cloud

- ✓ Migrate on-premise to AWS (RDS,Redshift, Aurora, DynamoDB)
- ✓ Migrate on-premise to Azure (Azure SQL,Synapse, CosmosDB)
- ✓ Migrate on-premise to Google (BigQuery, CloudSQL)

Cloud to Cloud

- ✓ Migrate from Azure SQL to Snowflake
- ✓ Migrate from Amazon RDS to Amazon Aurora

Data Migration tools & services at NashTech

On-premise



Debezium

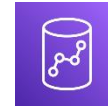
AWS



AWS DMS



Amazon EventBridge



Amazon Redshift



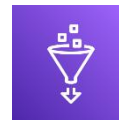
Amazon Kinesis



AWS Step Functions



Amazon DynamoDB



AWS Glue



AWS Lambda



AWS SCT

Azure



Azure SQL



Azure Synapse



Azure Cosmos DB



Azure Data Factory



Azure Event Hubs + Stream Analytics



databricks

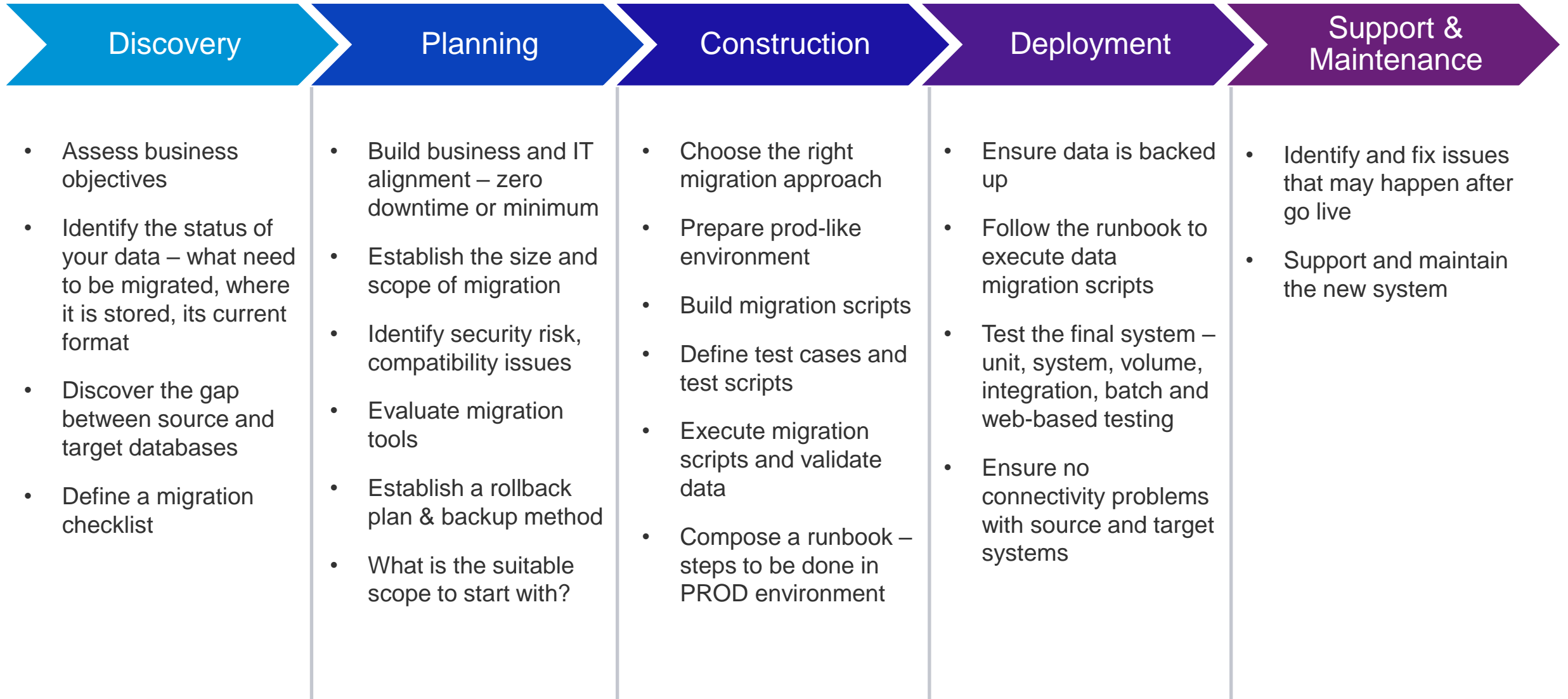


Azure DevOps

Common challenges and solutions

Challenges	Mitigations
Data quality Inconsistent, incomplete, or inaccurate data can lead to problems	Conduct a data quality assessment and have corrective action
Downtime and Business Continuity require downtime, causing disruptions to business operations	Choose appropriate migration technique/approach
Compatibility issue incompatibility between the source and target systems	Careful planning – data types and structures
Data security and compliance Without proper security measures can lead to breaches and non-compliance	Consider security options and ensure compliance with data protection regulation
Performance Migrate large volume of data can lead to extended migration time & resources	Choose appropriate migration technique/approach
Testing Inadequate testing can lead to data corruption or loss during migration	Careful planning – how/what to test

Data migration steps – Incremental Approach at NashTech

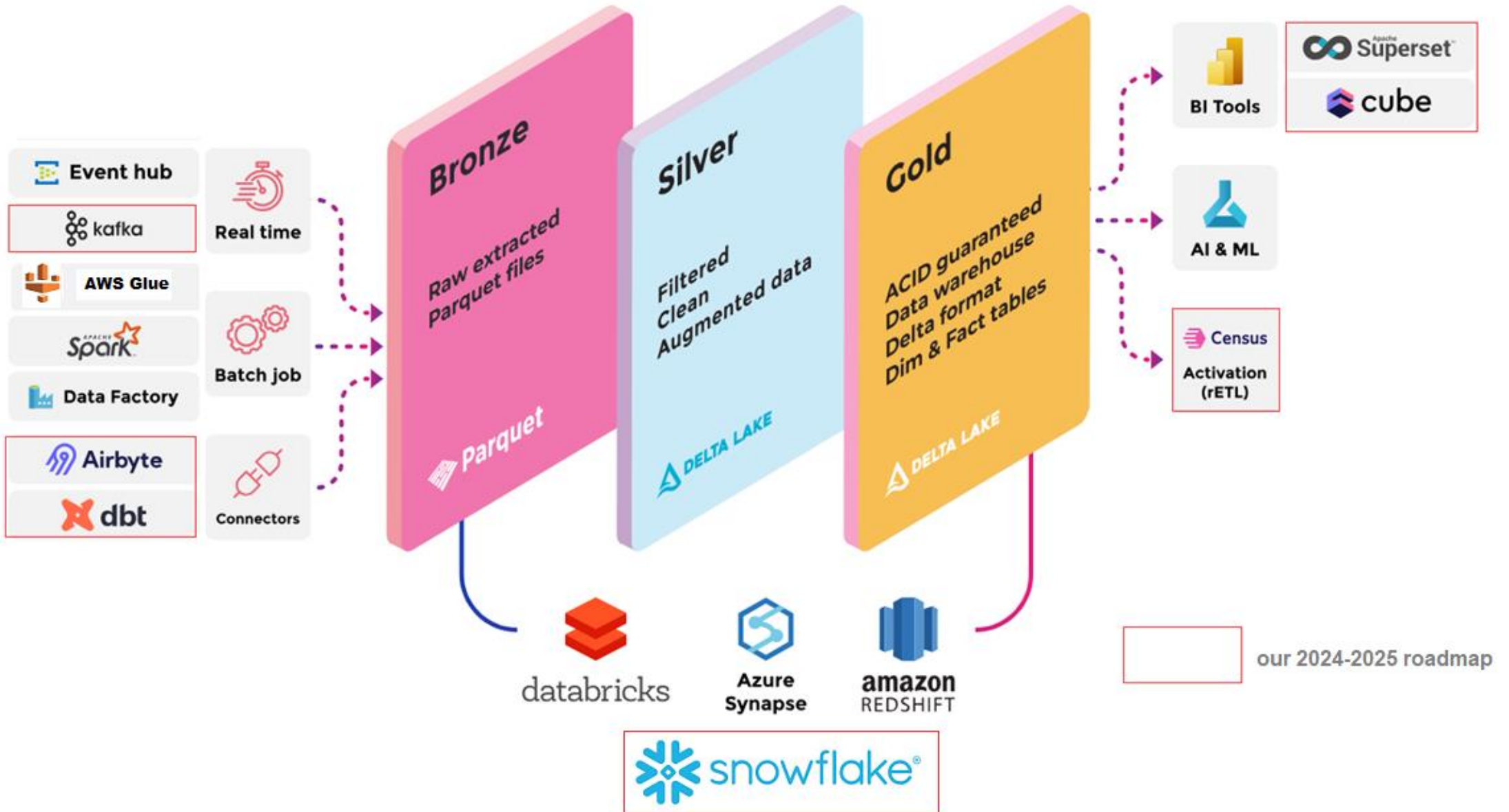


NashTech

Data Accelerators



Modern data solution architecture



Supported Features



Data ingestion

- Support multiple endpoints like SQL, CSV, JSON.
- Batch processing with AWS Glue, Azure Data Factory, and Databricks.
- Real-time support utilising AWS Kinesis, Event hubs and Stream Analytics.



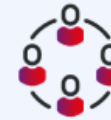
Data Lakehouse

- Build a Lakehouse solution using Redshift, Synapse, or Databricks
- Support Parquet and Delta Lake format.
- Improved Data analytics with Spark.



DataOps

- Use Terraform to provision infrastructure resources.
- Set up CI/CD pipelines with Azure Devops.
- DevOps Improved code quality, enhanced traceability through using Gitflow.



Data governance compliance

- Monitor database activities.
- Implement data protection and data encryption.
- Manage Access control and data policies.



Embedded AI/ML

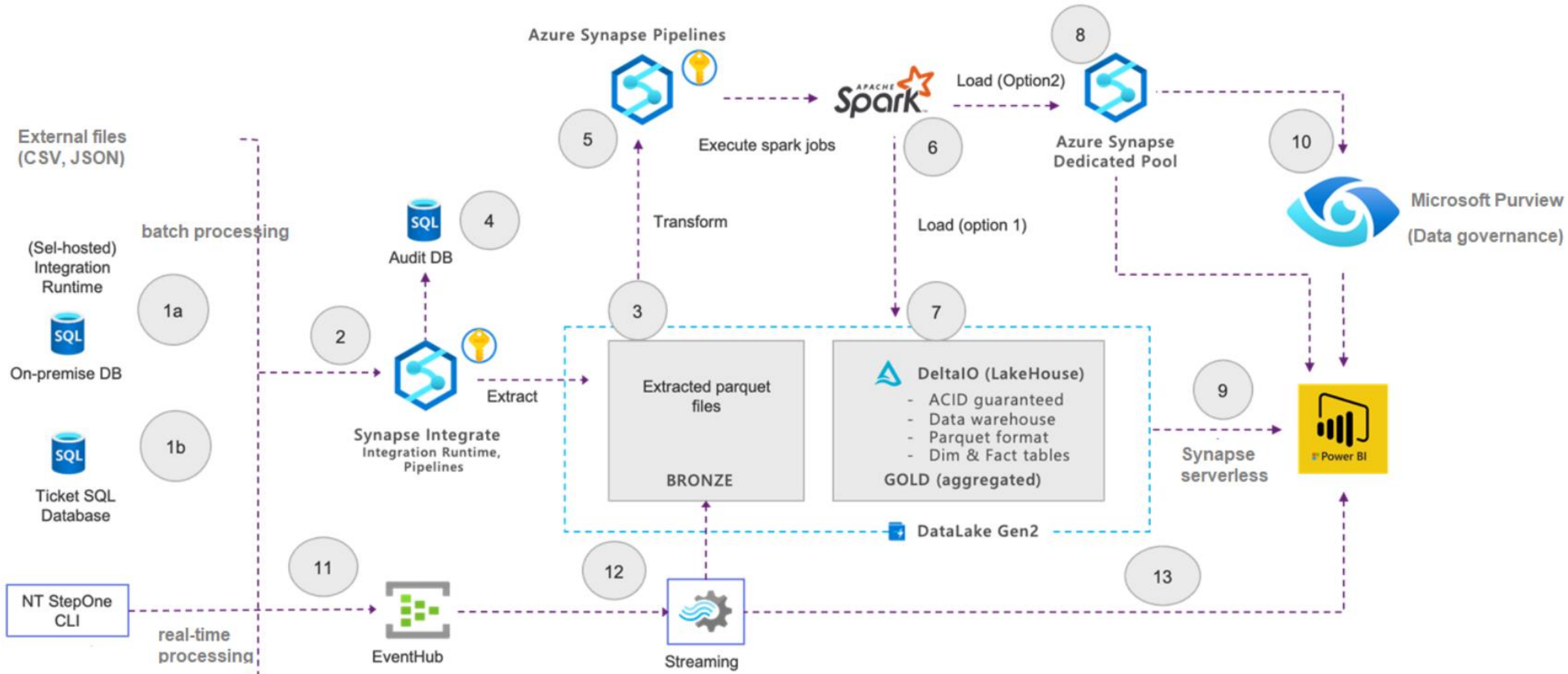
- Synapse / Databricks & Azure ML integration.
- StepOne AI integration.



Visualisation

- Visualize data with Power BI or QuickSights.
- Integrate with Synapse, Databricks, Redshift.
- Support Real-time analytics.

Azure Lakehouse architecture with Synapse



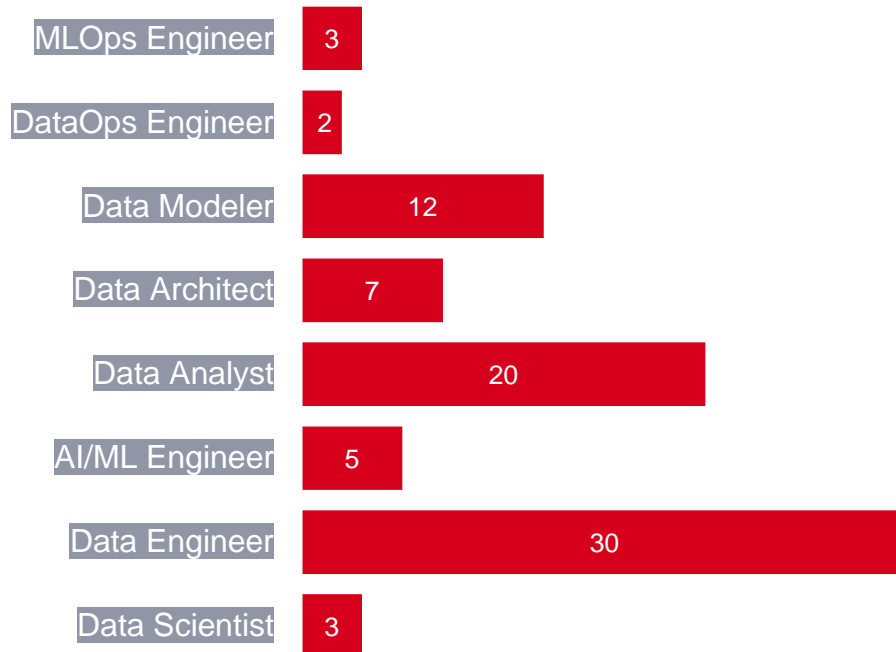
**RESOURCES,
CERTIFICATES,
PARTNERSHIP**



Our Data community

- Hanoi: 15
- HCM: 38
- and extended engineers coming from other competencies

Headcount per role



Partnership



Data & AI

Azure



Certification

- MS Power BI Data Analyst (15, +6)
- Azure Data Engineer Associate (Current: 12, +5)
- Azure AI Engineer Associate (4, +2)
- Azure Data Scientist Associates (3, +1)
- AWS Certified Database – Specialty (5, +2)
- AWS Certified Data Analytics – Specialty (3, +3)
- AWS Certified Machine Learning – Specialty (2, +1)
- Google Professional Cloud Database Engineer (2)
- Google AI TensorFlow (2)
- Tensor Flow Developer Certificate (2)
- Databricks - Data analyst associate (1,+1)
- Databricks - Data engineer associate (4,+3)
- Databricks - Machine learning associate / professional level (+1)



Thank you