Data Warehouse Modernization (PoC)

Overview

- A four-week POC (proof of concept) is proposed.

- The POC involves creating a prototype system.
  - to showcase the benefits of modernizing an existing data warehouse.

- The team will work closely with client to define;
  i.   the scope of the PoC
  ii.   identify key requirements and success criteria
  iii. develop a plan for implementation.

- The POC will culminate in a demonstration of the prototype system, highlighting the benefits of data warehouse modernization.

- The results of the POC will be used to inform the development of a full-scale modernization plan.

Key Features

Cloud-Based Architecture

Real-Time Data Processing

Data Governance

1

2

Automation

3

4

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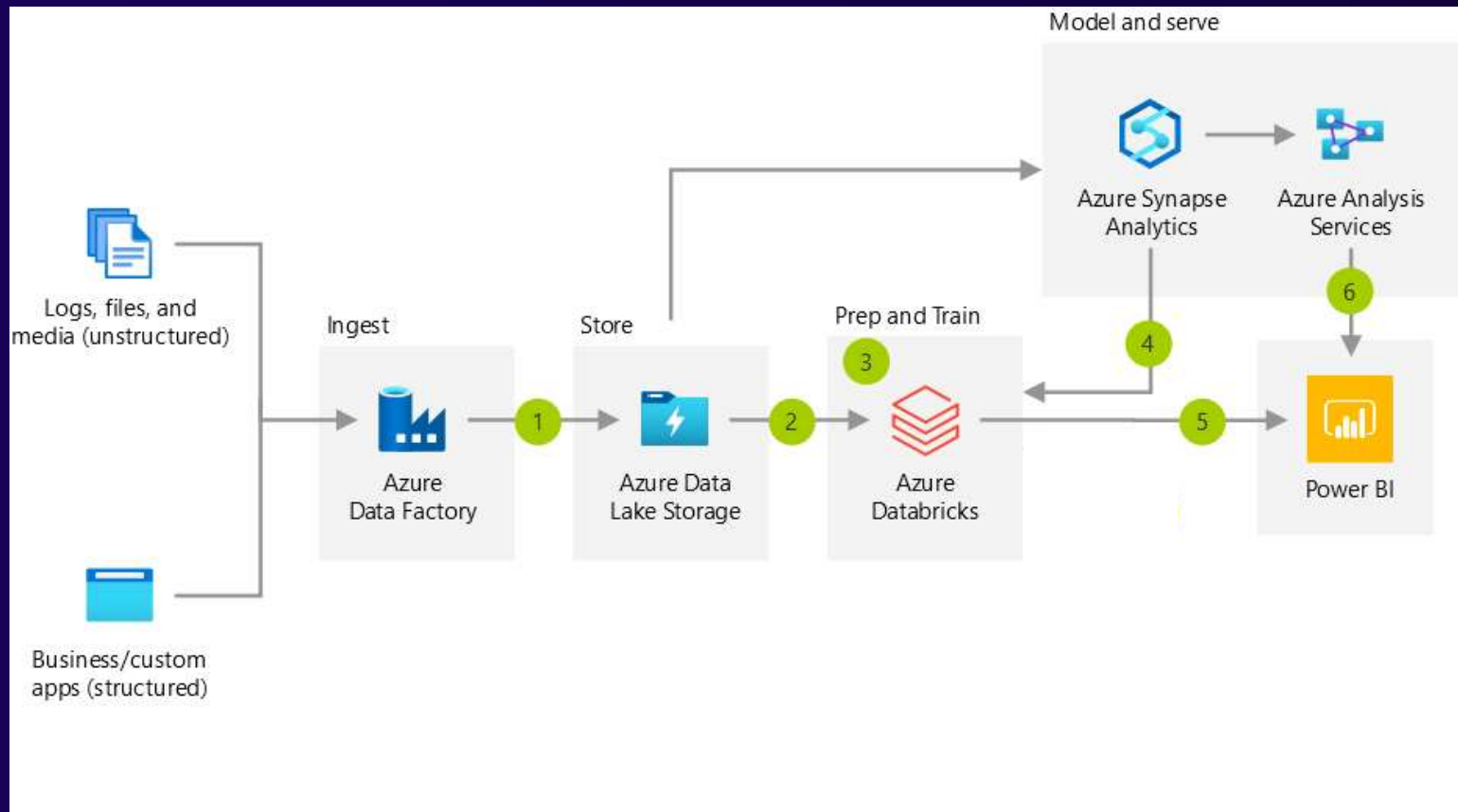Integration with Business Intelligence Tools

Data Lake Integration

Benefits

- Accelerate time to value with serverless analytics
- Modernize without busting your IT budget
- Secure your data and operate with trust
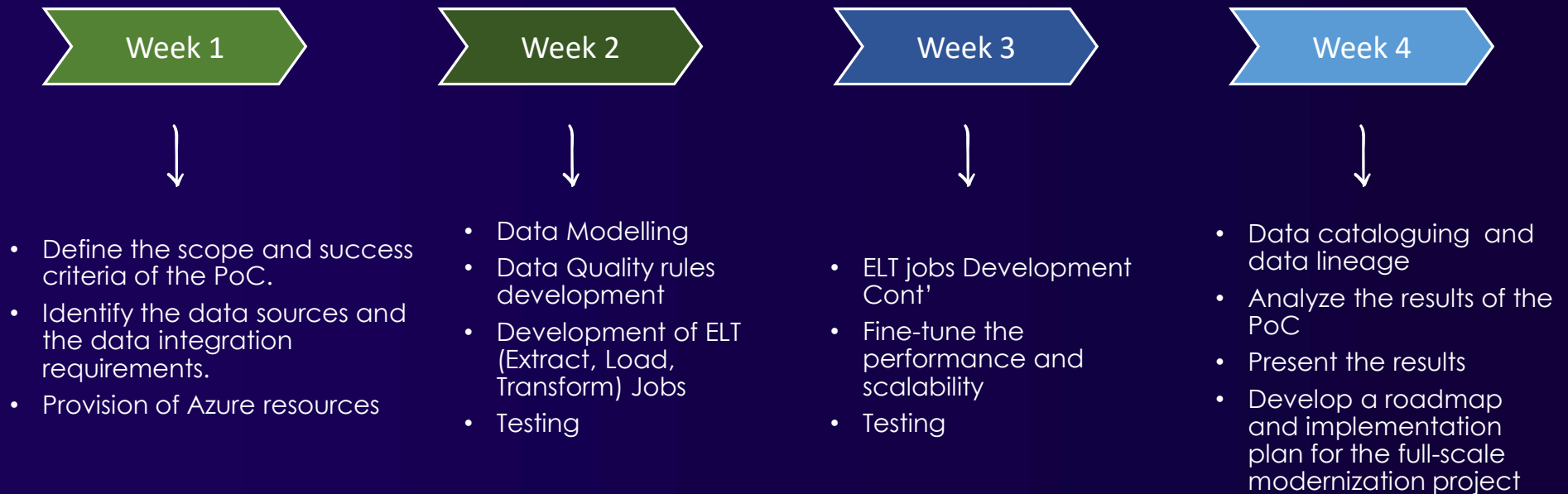- Enhanced performance
- Flexibility and scalability

Architecture Diagram

PoC Implementation Plan

Activities

| Week 1 | Week 2 | Week 3 | Week 4 |

Week 1
- Define the scope and success criteria of the PoC.
- Identify the data sources and the data integration requirements.
- Provision of Azure resources

Week 2
- Data Modelling
- Data Quality rules development
- Development of ELT (Extract, Load, Transform) Jobs
- Testing

Week 3
- ELT jobs Development Cont'
- Fine-tune the performance and scalability
- Testing

Week 4
- Data cataloguing and data lineage
- Analyze the results of the PoC
- Present the results
- Develop a roadmap and implementation plan for the full-scale modernization project

PoC Outcome

Outcome

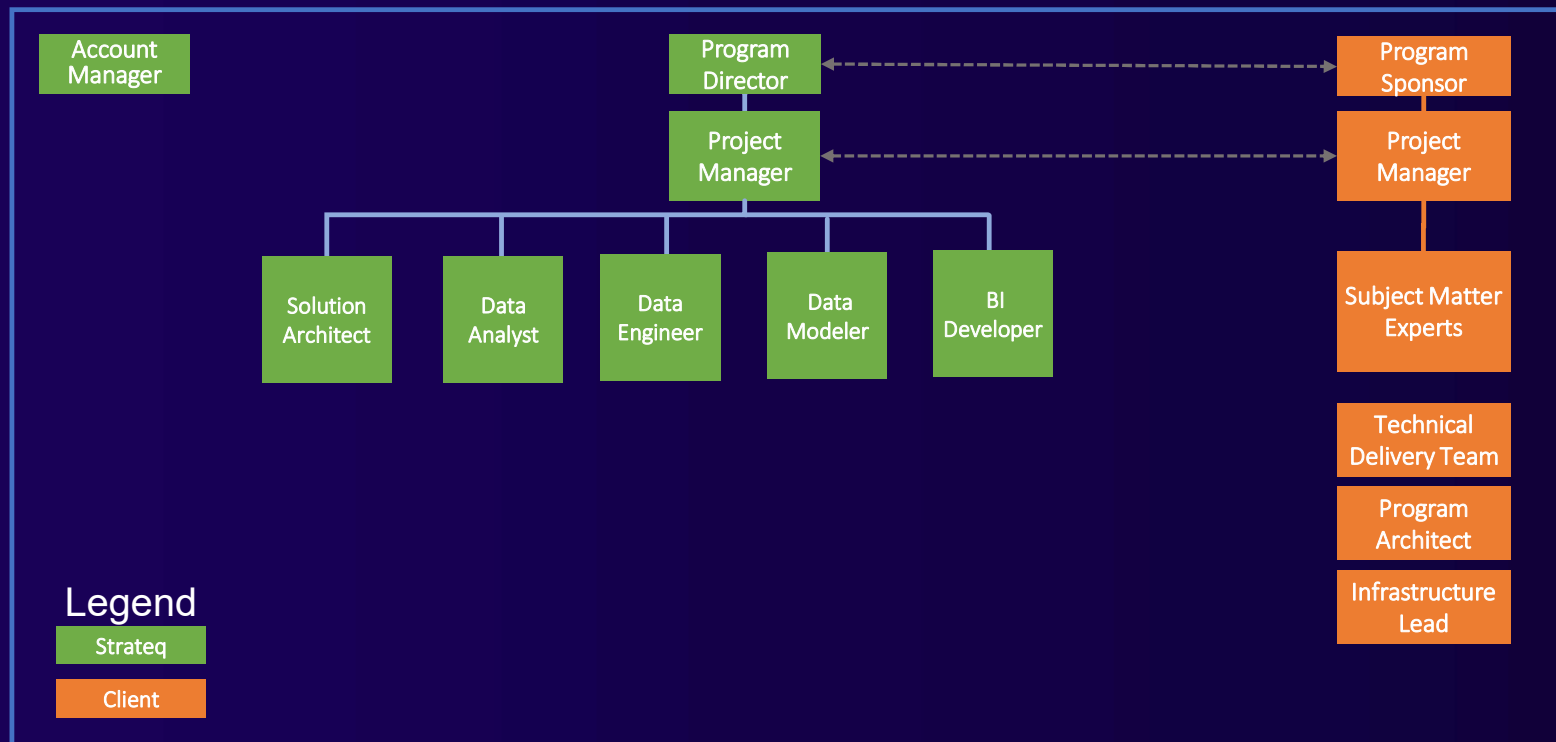| Week 1	Week 2	Week 3	Week 4

Week 1
- Develop a well-defined Proof of Concept (PoC) plan.
- Ensure the plan is clearly communicated to all clients.
- Clearly outline the objectives, scope, and expected outcomes of the PoC.

Week 2
- Ensure the data warehouse is fully functional and operational.
- Implement advanced technologies and methodologies to enhance its capabilities.
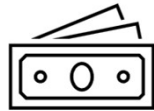
Week 3
- Ensure seamless integration of the modernized data warehouse with existing systems and applications.
- Conduct thorough testing of the data warehouse to validate its functionality and performance.

Week 4
- Clear understanding of modernization approach and technology
- Evaluation of effectiveness of modernization approach and technology
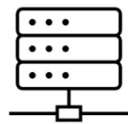- Development of a plan for moving forward with the project

Strateq Group of Companies

PoC Team Structure

Account Manager

Program Director ⟵ ⟶ Program Sponsor

Project Manager ⟵ ⟶ Project Manager

Solution Architect | Data Analyst | Data Engineer | Data Modeler | BI Developer

Subject Matter Experts

Technical Delivery Team

Program Architect

Infrastructure Lead

Legend
Strateq
Client

Cost

Professional Service – FOC

Azure Resource – Cost is borne by the customer.