



# Data & Analytics Solutions

Helping customers to realize value from harnessing data

May 2021



# Introduction

Harnessing your data to harvest insight, drive decisions, and gain business value

Data is one of the essential currencies that drives the business world. Whether it be sales figures or stock trends, a good part of doing business involves dealing with data. This is made even more important by the fact that we are in a digital world where so much of business is conducted online.

Every day your business is generating and collecting more data than ever before that could be used to support making vital decisions. Yet, despite the hidden value stowed away across the business, data remains an untapped resource by most businesses.

Through our experience with data integration, we are helping our customers to make strategic decisions to accelerate growth and offer exceptional customer service.



# Data and Business Challenges

Data & Analytics solutions have evolved to solve common business problems



## Data residence

We don't know where our data is... we need to **Catalogue**

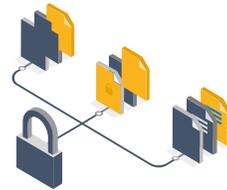
## Meaningful information

We're not sure what all this data means... we need to **Analyse**



## Data fragmentation

Our data is all over the place... we need to **Aggregate**



## Decision making with data

We need to be guided by data... we need some **Insight & Visualisation**



## Distinguishing the bad data

There are multiple versions of the truth... we need to **Consolidate**

## Learning and recommending

Our customers ask us for guidance... we need to automate **Recommendations**



## What is your challenge?

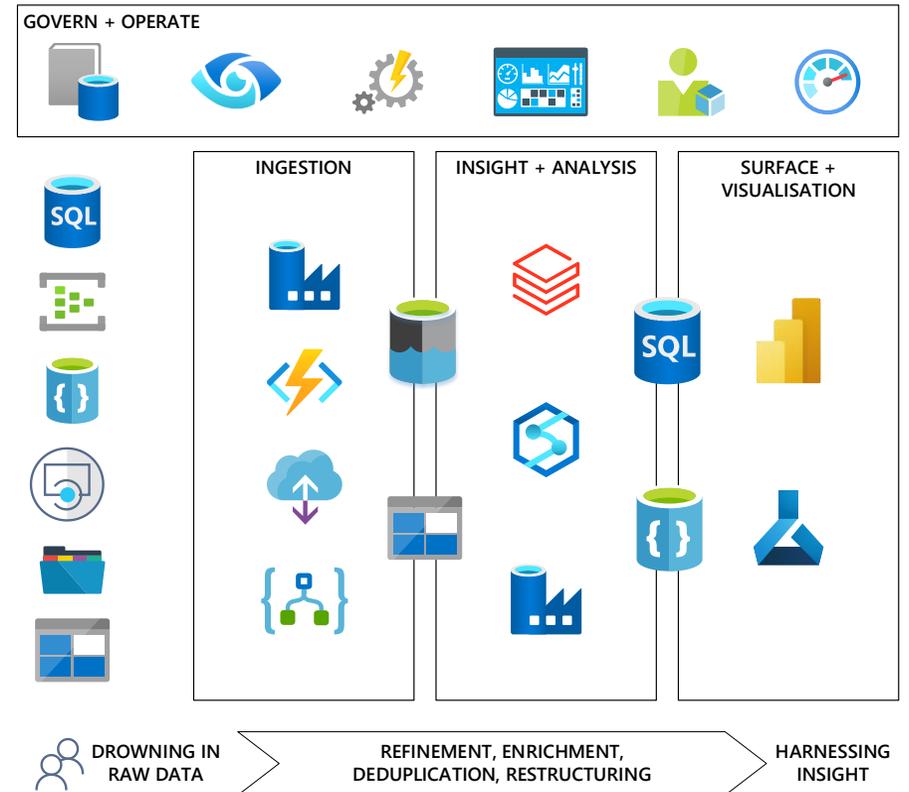
# Data & Analytics Architecture

Technology in action to drive value from your data

## Building Blocks

- Microsoft Azure & Power Platform provides an array of cloud-hosted services for your business IT needs, with costs incurred on a consumption-based, pay-what-you-use model
- Data & Analytics solutions are composed of three main stages: **Ingestion**, **Insight & Analysis**, and **Surfacing & Visualisation**
- Operating and Governing Data solutions is critical, especially to ensure compliance with GDPR and data security regulations
- A robust Data & Analytics architecture will help you move from drowning in raw data to harvesting and harnessing insight from the data you already store

## Reference Architecture



# Cluster Reply Data Offers

How Cluster Reply can help you assess and adopt Data & Analytics tools and techniques



# Cloud Adoption Framework for Data

## Suite of Offers



## Technologies & Products



SQL Azure



Cosmos DB



Data Factory



Data Lake



Databricks



Synapse



Power BI



Azure ML



Azure Purview



Azure Monitor

# Data Offerings

## Data Health Check – 2 Day Assessment



Assessment of customer data sources, identifying areas of concern, potential optimisations, and recommendations for areas to investigate

## Cloud Data Migration – 5 Day Workshop



Workshop to review on-premises data sources and provide strategy for cloud data migration projects

## Unify Your Data – 3 Week Proof of Concept



Proof-of-concept showing how customer could collate and unify data from disparate sources as foundation of data strategy

## Data Aggregation- 10 Week Implementation



Implementation of first phase of data aggregation, collating data in a specific business domain into a common data store as first stage of moving toward harnessing insight for business improvement

# Two-day Data health check assessment

Prepare to extract value from your data with a data health check assessment

We undertake an assessment of customer data sources to identify areas of concern, potential optimisations, and recommended areas to investigate.

With this two-day workshop, we can help you identify ways to optimise the most valuable data within your organisation. We propose quick wins and deliver a concrete plan with recommendations and priority activities.

## Catalogue

Review sources and processing across your estate aligned to business requirements



## Assess

Evaluate health of data and identify architectural, operational and security concerns

## Recommend

Recommend changes required to improve data health and align to best practice

# Two-day Data Assessment



A structured approach based on best practices and a well-defined methodology

## Catalogue



Review data sources and data processing across your estate

### Day 1

- Review data sources and applications
- Review key data processing workloads
- Assess alignment with current business needs
- Identify solution gaps and pain points
- Assess internal capability level

## Assess



Evaluate health of data, identifying architectural, operational & security concerns

### Day 2

- Overview of data stakeholders and clients
- Review operational practices
- Review monitoring
- Review security standards in use
- Compare with industry best practices

## Recommend



Highlight action points and recommended changes to improve data health

### Offline

Workshop Report:

- Assessment Summary
- Issues Observed
- Recommend/Prioritised Actions
- Costed proposal for further assistance

\*The duration workshop is based on a limited scope. The scope of the project (e.g. number of users, applications, images etc.) need to be agreed in advance.

# Five-day Data Migration Workshop



Plan how your organisation can adopt modern cloud technologies for data and analytics

We undertake an assessment of customer data sources and processing to understand the data workloads that drive your business. We then envision a future migrated to the cloud to optimise performance and costs.

With this five-day workshop, we can help you understand how cloud data migration can be accomplished, the benefits it will provide to your business, with a candidate architecture and migration strategy to guide the process.

## Discover

Review as-is estate and to-be requirements to ensure the data migration optimises



## Envision

Evaluate health of data and identify architectural, operational and security concerns

## Strategise

Recommend changes required to improve data health and align to best practice

# Five-day Data Migration Workshop



A structured approach based on best practices and a well-defined methodology

## Discover



Getting to know your business and estate to provide the best guidance

### Day 1

- Business & IT Overview
- Data and Application Landscape
- As-Is Data Processing
- Infrastructure and Connectivity Requirements
- Current Pain Points and Challenges

## Envision



Depict the art of the possible, envision a migrated data platform for your future

### Day 2

- Candidate Architecture Options
- Monitoring, Operations, and Performance
- Security and Compliance Requirements
- Business Continuity Approach
- Development and ALM Requirements
- Skills Transfer Approach

## Strategise



Form Cloud Migration Strategy to guide future endeavours

### Offline

Cloud Migration Strategy Report:

- Candidate Architecture
- Cloud Migration Approach
- Best Practices and Development Standards
- Monitoring and Operations Approach
- Costed Proposal for Cloud Migration Project

# Three-week Cloud Data Proof of Concept



Prove the value of collating and unifying data from across your organisation and validate readiness to proceed to full implementation with a proof-of-concept implementation

Before diving into the full implementation of a unified data platform, it is important to prove that the concepts and principles will work for your organisation. We will work with you to define and implement a real-world scenario to demonstrate this in a tangible way.

With this three-week engagement, we will analyse, design, and deliver a limited-scope proof-of-concept solution that will inform, refine, and validate the business case for your organisation's data platform.

## Analyse

Identify data in scope, gather requirements, locate data sources, define proof points



## Design

Design data processes, identify cloud resources to provision, validate suitability to prove value

## Build

Implement & test solution, follow best practices, automate build and release

# Three-week Data Proof of Concept



A structured approach based on best practices and a well-defined methodology

## Analyse



Gather requirements and define criteria to evaluate proof-of-concept success

### Week 1 (workshops)

- Review data entities in scope
- Locate within source systems
- Map aggregated data structure(s)
- Define functional and non-functional requirements
- Identify proof points for solution

## Design



Design the solution, ensuring that all proof points are catered for

### Week 1 (offline + workshops)

- High-level architecture and solution design
- Documented data mappings
- Identify Azure Data resources to provision
- Design Playback session

## Build



Implement the design following rapid development practices

### Weeks 2-3

- Agile development methodology
- Write source code and build solution artefacts
- Unit testing
- Functional testing
- Assess the success of proof of concept against identified criteria

\*The duration workshop is based on a limited scope. The scope of the project (e.g. number of users, applications, images etc.) need to be agreed in advance.

# Data Aggregation – Implementation Project

Implement first phase of data platform to aggregate and collate data within a specific business domain

We run workshops to discover key aggregation requirements for your data platform, refining the scope to a Minimum Viable Product within a single business domain that can be extended and enhanced in future.

With this variable-term engagement, we will analyse, design, and deliver the first phase of a production-grade solution aligned to your key business requirements. The scope and estimated costs will be confirmed after the Discover and Design phases of the engagement before proceeding to Deliver.

## Discover

Deep-dive into the business challenges the Data & Analytics solution is intended to resolve



## Design

Formation of an architecture and technical design to meet the stated requirements

## Deliver

Agile development and testing, following best practices and DevOps principles

# Cloud Aggregation – Implementation



A structured approach based on best practices and a well-defined methodology

## Discover



Deep-dive into your business challenges and solution requirements

### Week 1

- Review IT landscape including applications and data sources
- Define size and shape of business domain in scope for MVP
- Catalogue the data processing required
- Capture Functional and Non-Functional Requirements
- Review Governance and Compliance Requirements
- Define candidate architecture

## Design



Design architecture and solution catering for requirements

### Week 2

- High-level design of data ingestion and aggregation processes
- Documented data mappings
- Identify Azure Data resources to provision
- Design Playback & Approval session
- Confirm Estimates and Costs for Delivery

## Deliver



Build and deploy production-grade solution with best practice DevOps

### Weeks 3-n

- Agile development methodology
- Write source code and build solution artefacts
- Unit testing
- Functional testing
- Automated build and release
- Negotiable support for SIT, UAT, and Go-Live support

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# The Cluster Advantage

Cluster Reply is a multi-award winning technology consultancy specialising in Azure



## Credentials

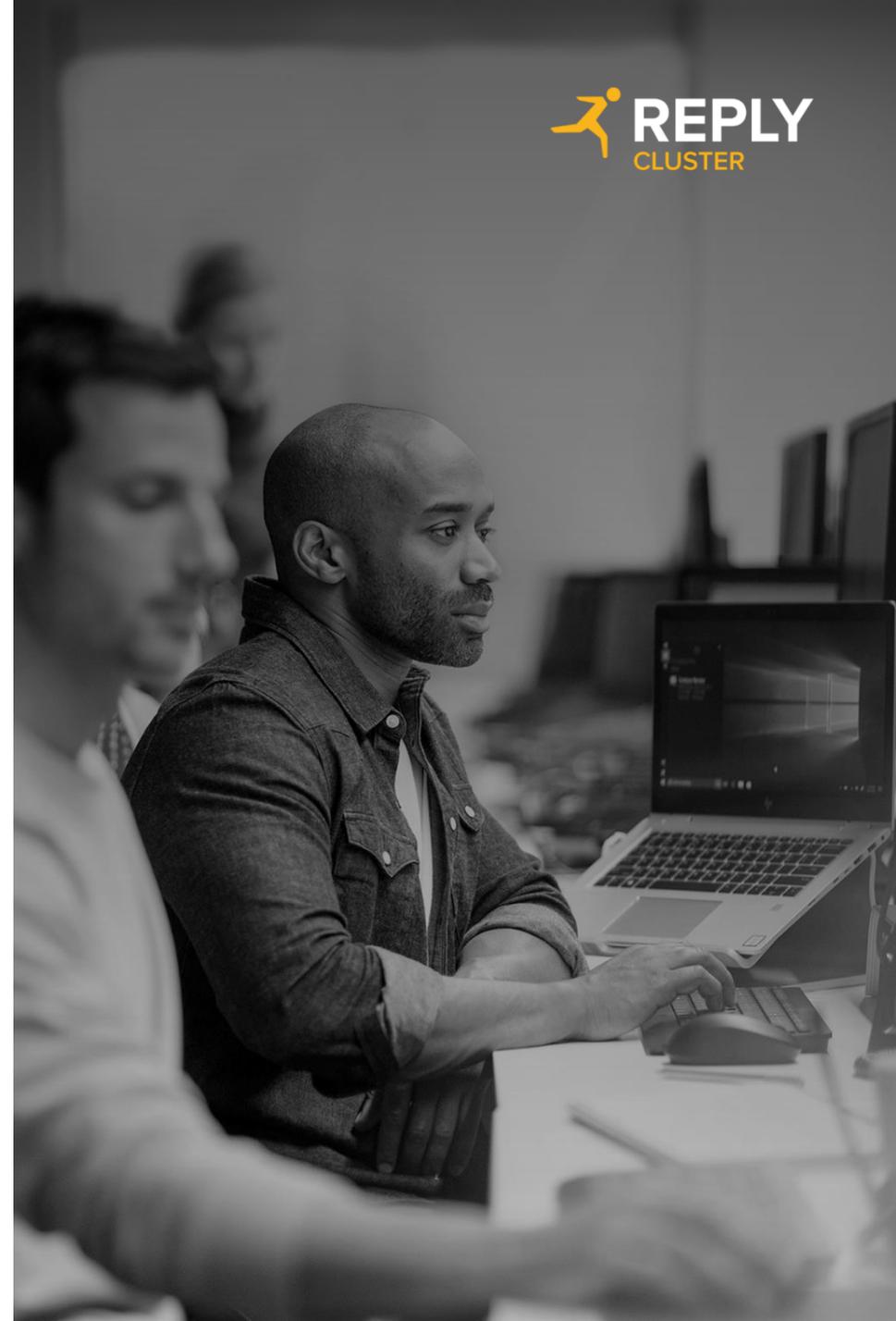


- **Microsoft Gold Competencies** – Gold competency is awarded to companies that have demonstrated the top level of expertise on a particular technology or service area. We hold 14 Microsoft Gold competencies, including **Gold Windows and Devices**, **Gold Datacentre**, **Gold Security** and **Gold Cloud Platform**.
- **Azure Expert MSP** – this accreditation assures clients that they are connecting with one of Microsoft's most capable and high-fidelity Azure Managed Service Providers. Whether you are working on mission-critical apps, entire datacentre footprints, or hybrid environments, Cluster Reply have proven their capabilities to be able to help you

## Technical Expertise & Experience

Our Architects and Engineers have extensive experience in:

- Delivering application development, integration and cloud infrastructure solutions for clients using Microsoft technology, including BizTalk Server, Service Bus, Logic Apps, Azure Functions, and API Management
- Developing integration IP via QuickConnect our proprietary Integration Accelerator, which offers a strong starting point for resolution of typical integration problems (performance, end point management, monitoring, governance and security)
- We ensure consistent, high-quality delivery of projects across the full development lifecycle to meet individual customer priorities



# Making the most of cloud

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