

ProArch Data Platform

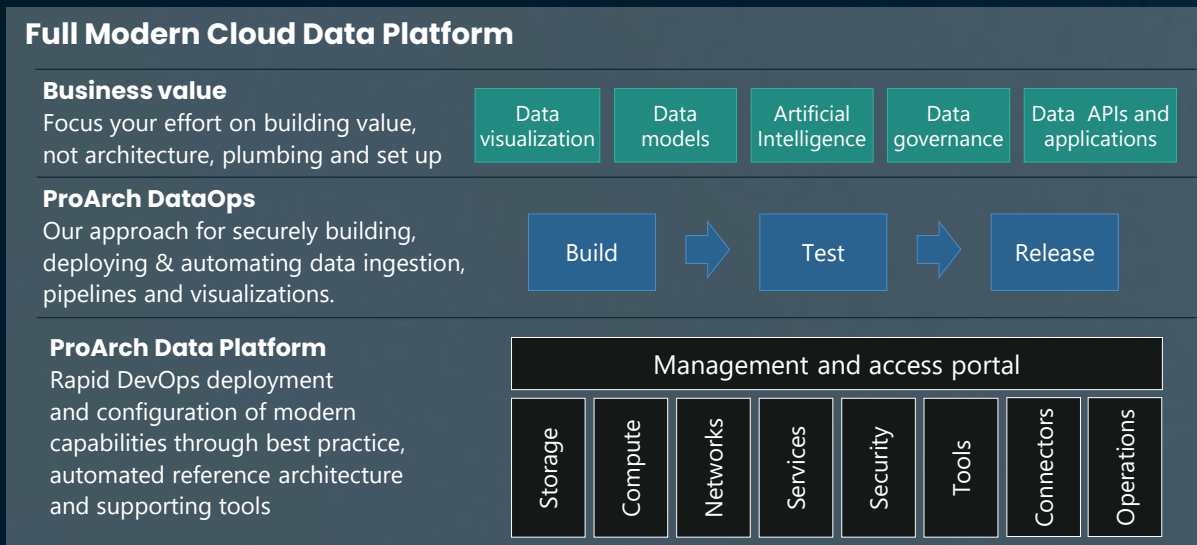
Unlock the value of your data with ProArch's Data Platform and Microsoft's leading tools which combine to create a comprehensive platform to ingest, engineer, model, analyse and present insights across all your data sources. Deal with data of any size from typical business files, databases and APIs to high volume IOT streams. Build out analytics ranging from simple reports to complex AI driven predictive models. Manage, govern and secure your data effectively.

Supported by proven methodologies, extensive automation and seasoned experts we expedite and accelerate design and implementation down to days so that our customers can focus immediately on creating value from their data and avoid months of plumbing work.

Capability Overview

Our Data Platform enables organizations to

- Gain access to the latest data processing technology including data pipelines, Spark notebooks and various SQL based options
- Store data in modern repositories such as data lakes, cloud data warehouses, data lakehouse
- Implement data governance across a customer's data landscape
- Deploy a full, integrated cloud data platform in to your organization in days through automation
- Enable new capabilities for data ingestion, visualization, engineering, artificial intelligence and data governance
- Process "modern" data of any volume, variety, veracity or velocity
- Benefit from elastic costs that scale as your organization does
- Use a single, corporate branded portal interface to manage development, end users and access
- Implement our DataOps methodology, a robust process to build and promote work from dev to test to production



How we help

Platform

Our Dataware platform takes the heavy lifting out of deploying a modern cloud data platform in to your organization. We work with your IT team to ensure readiness through a pre-deployment process, provide transparency in to what we needs to be set up and then configure and run our automated deployment of all the required Azure Data Services through infrastructure as code and DevOps pipelines.

Expertise

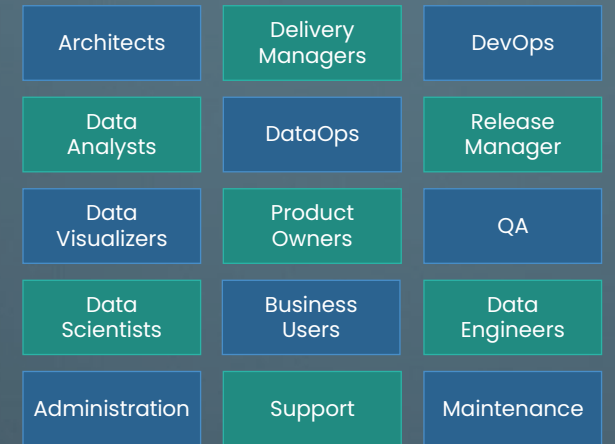
Proarch's expertise across all data services allows us to build hybrid teams with customers to ensure the correct skill set is deployed to both configure and leverage data services and set up. We work with customers to build data ingestion, pipelines, models, AI and visualizations. We help with knowledge transfer to get customers up to speed with new cloud technology and optimise processes and approaches based on customer use cases, for example ad-hoc data exploration requires a different approach to financial analysis or dealing with sensitive data. Several roles are required to build out and manage a data platform (see the chart to the right) and often some roles like Architects or DevOps engineers are required ad-hoc and are well suited to allowing a Partner to provide subject matter experts as needed instead of hiring in-house.

Support

Cloud data services continue to evolve and need to be brought on board to keep the platform current. Monitoring of logs and events needs to be set up. Security, Reliability and Performance alerts need to be acted on. Data ingestion and pipelines have dependencies on other systems that may be subject to change, which could result in pipeline failures and data science models may require re-training. Data platforms produces reports and analytics but can be critical infrastructure if suppling curated data to downstream systems. ProArch offer an outsourced solution to provide the necessary support to customers that may not have the resources to do it themselves.

People

Blend your organization with ProArch to optimise your data and analytics capabilities



Data Landscape on a Page

ProArch assists and enables customers across the board

Infrastructure & DevOps	Preparation Map the Data Platform to the customer environment, goals and objectives.	Stakeholders	Readiness	Security	Authentication	Connectivity	Standards	Policies	Governance
	Automated Deployment Secure data platform infrastructure deployment to desired environments.	Pre-Deployment	Infrastructure as Code	Continuous Integration	Continuous Delivery	Dev	Test	Production	<other environments ?>
Development, DataOps, MLOps	Team and Method Establish the methodology for delivery and build the relevant team/s to deliver business value.	Form Team	Build Backlog	Establish Ceremonies	Define Team KPIs	Validate Tools			
	Establish Best Practice Select from the newly available platform tools and techniques to optimise end-to-end processing.	Pipelines	Notebooks	Orchestrations	Schedules	Triggers	Data Marts	Reports	
	Deliver Value Use the team, methods and best practices to deliver Value to the business and stakeholders.	Business Domain Models	Calculations and Measures	Insights and Reports	Data Science AI & ML	Collaboration	Self Service Data Marts		
	DataOps & MLOps Deploy the value built (pipelines, notebooks, Orchestrations, AI and reports from Test->Prod).	Automation	Continuous Integration	Continuous Delivery	Quality Assurance	Source Control	Versioning		
Support	Support the Platform Support the cloud infrastructure and services That the platform runs on.	Monitoring	Logging	Alerting	Ticketing	Evergreening	Health	Costs	
	Support the Value Delivered Support the execution and operation of schedules, pipelines, notebooks, orchestrations and reports.	Monitoring	Logging	Alerting	Ticketing	Errors	Issues		

Data Platform Screen shots

proarch PORTAL INGESTION TOOLS PEOPLE

Your Audiences

ADD AUDIENCE

Billing Information 1 items

CTO Junior Te 0 items

Recently Viewed

Report

Qualys

Portal:
Branded audience management

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AUDIENCES / Operations - Internal Azure Spend

ProArch Internal Azure Spend

Month	Spend (\$K)
Apr-20	\$138
May-21	\$289
Jun-21	\$6,922
Jul-21	\$6,126
Aug-21	\$6,172
Sep-21	\$6,264

View Reports:
Branded report consumption (via PowerBI)

Swagger Supported by SMARTBEAR

<https://paip-eus2-prd-ins-func-ig-001.azurewebsites.net/api/swagger/json> Explore

IngestionFramework V1 OAS3

Swagger document

Servers

<https://paip-eus2-prd-ins-func-ig-001.azurewebsites.net>

Job-StartJob

POST /api/jobs/start/{env:}

A custom Ingestion Framework:
For building complex data import logic

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- Store**
 - Browse data
 - Storage Explorer
- Engineer**
 - Prepare and Analyse
 - Power BI
 - Synapse
- Model**
 - Structure your data
 - Synapse
 - Machine Learning
 - SQL Server
 - Power BI
- Consume**
 - Visualize your data
 - Power BI
- Operate**
 - Operations management
 - Apps Resource Group
 - Tools Resource Group
 - Application Insights

Services

- AzureCostMgmt UsageBilling
- ConfigurationSettings GetConfig
- ExcelTools Base64ExcelToDb

The full Power of Azure Data Services in one architecture:
Ingest, store, transform, engineer, analyse and visualize data of any type at any scale

Data Platform Architecture

Data Portal

Azure Active Directory Portal App/API Functions Cosmos database

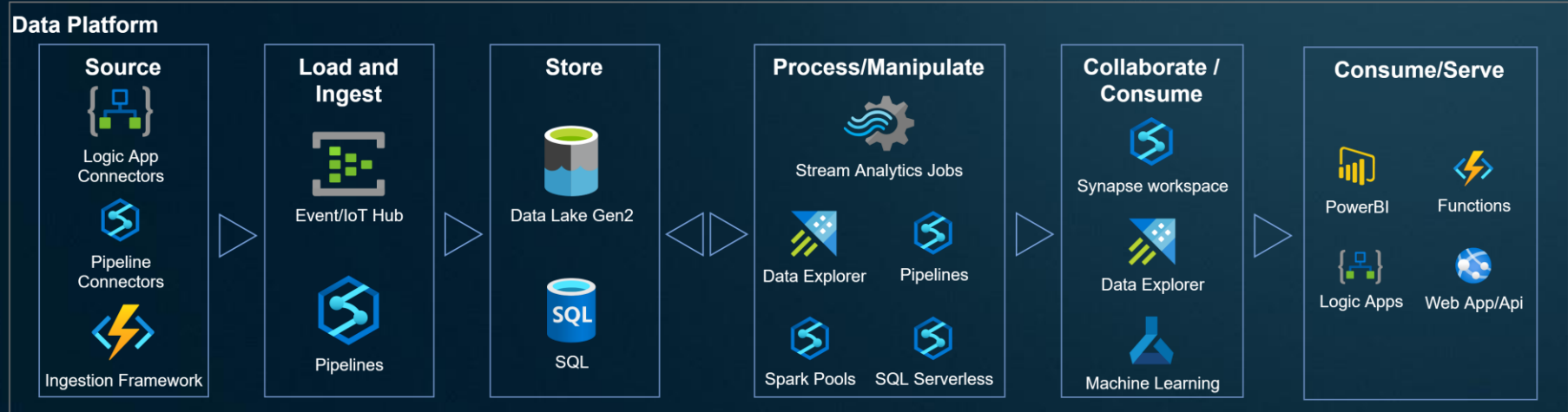
Privacy Platform

Manager Api's Tokenizer Api's Cosmos database

Realtime systems



Batch systems



Data Governance

Azure Purview

DevSecOps

Security Centre App Insights Azure DevOps CI/CD



THANK YOU | WWW.PROARCH.COM