



**snp** technologies<sub>inc.</sub>

**Migrate. Innovate. Enable**

Unlock the full power of the Cloud

**SNP's Hybrid Cloud  
Portfolio**

# About SNP

SNP Technologies is a cloud-only service provider, building secure and reliable solutions to transform businesses of the future.

Our Azure Cloud solutions and consulting services help customers migrate to the cloud and create secure new solutions that deliver scalability, innovation and value.



Application Development  
Cloud Platform  
Cloud Productivity  
Collaboration & Content  
Data Analytics  
Data Platform  
Datacenter  
DevOps



2019 US PARTNER  
AWARD WINNER

Intelligent Cloud – OSS on  
Microsoft Azure Award



2019 PARTNER OF  
THE YEAR FINALIST

Open Source Applications &  
Infrastructure on Azure Award



2018 PARTNER OF  
THE YEAR FINALIST

Open Source Applications &  
Infrastructure on Azure Award



2018 US SI PARTNER OF  
THE YEAR WINNER

Solution Innovation on  
Microsoft Azure Award

## Microsoft Gold Certified Partner Specialized In:

### Data & AI

- SQL Server Migration
- OSS DB on Azure
- Cosmos DB Migration
- Machine Learning
- AI & Business Intelligence
- Modern Data Warehouse
- Self-service BI
- Azure Databricks
- Data Engineering

### Apps & Infrastructure

- Windows & Linux Server Migration
- Hybrid Cloud
- Business Continuity & DR
- Azure Adoption Framework
- Azure Governance Services
- Windows Virtual Desktops
- Network Security
- Azure Kubernetes Services
- Azure Cost Optimization Services
- Modernize OSS & .NET Apps
- Citrix VDI on Azure
- SAP on Azure
- DevOps on Azure

### Cloud Managed Services

- CSP Hosting Services
- Support Desk Operations
- Managed Azure infrastructure Operations
- Managed DR & Backup Operations
- Managed Data Operations
- Managed DevOps Services
- Managed Security Operations
- Premium Managed Services

# Begin a cloud migration journey with Azure Framework

Azure Governance

Azure Hybrid  
Connectivity

Azure Hybrid  
Identity

Unified  
Security

## Cloud RoadMap - Let data help you decide

**Movere, Stratazone, Cloud Amaze**

Perform Inventory, Assessment, Azure Cost, Dependencies

Hybrid  
Infrastructure

Data & AI

App  
Innovation

DevOps 2.0

Hybrid DRaaS

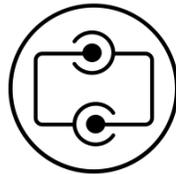
**SNP's Managed Services & Security Management**

# Azure Framework

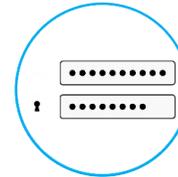
The implementation of Azure Framework is necessary for any Azure Hybrid Cloud Environment. The core services for the Framework are:



**Azure  
Governance**



**Azure  
Hybrid Connectivity**

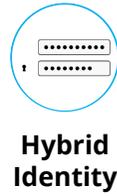


**Azure  
Hybrid Identity**

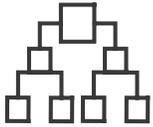


**Azure  
Security Management**





Azure governance is SNP's integrated security and consulting approach to implement policies, processes, and standards for architecture, acquisition, deployment, operation, and management of cloud computing:



### Azure Subscription Management

Define organizational hierarchy



### Azure Role-based Access

RBAC (Role Based Access Control) for fine-grained access management of Azure resources



### Azure Policies

Real-time enforcement, compliance assessment and remediation



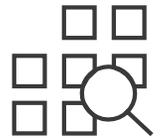
### Azure Blueprints

Deploy and update cloud environments in a repeatable manner using composable artifacts



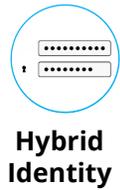
### Cost Management

Monitor cloud spend and optimize resources



### Resource Graph

Query, explore & analyze cloud resources at scale



Azure Hybrid Connectivity gives the ability to extend the on-premises network to Azure with consistent identity management, application logic, operations methodology, and other resources



### Express Route

Helps to have a private connections between Microsoft datacenters and on-premises infrastructure.



### Virtual Private Network

Site-To-Site VPN Using Marketplace Appliance to securely connect on-premises with Azure cloud.



### SD WAN

Software-defined connectivity which allows automatic branch connectivity on a global scale



### Application Delivery Controller

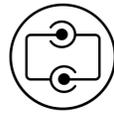
Scale applications and create high availability for all services.

### Marketplace Appliance

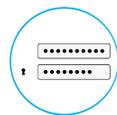




**Azure  
Governance**



**Hybrid  
Connectivity**



**Hybrid  
Identity**



**Unified  
Security**



Azure Hybrid Identity enables your organization to have a common login to access the organization's infrastructure and applications.



**Azure AD  
Connect**

Azure AD Connect integrates on-premises directories with Azure Active Directory, allowing common Identity



**DC on  
Azure**

Providing high availability for your On-premise AD infrastructure



**Managed  
Domain**

Managed Domain on Azure helps in building Dev/Test environment that can be isolated from your on-premise AD infrastructure



**Federation  
on Azure**

Extending your ADFS farm on Azure for HA



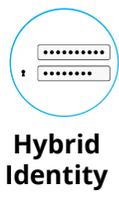
**(Azure AD)  
Seamless Single  
Sign-On**

(Azure AD) Seamless SSO provides users with easy access to cloud-based applications without requiring any additional on-premises components



**Identity Service  
on Linux**

Integrating your Linux servers with Azure AD (Ease of access to your entire server Infra with Azure AD)



Azure Unified Security bring the capability of centralized security management system for on-premises infrastructure and Azure Cloud.



### Azure Security Centre

Centralized policy management, Advanced cloud defences, Prioritized alerts and incidents, Integrated security solutions and Threats Detection.



### Azure Sentinel

Cloud-native security information event management (SIEM) and security orchestration automated response (SOAR) solution



### Azure Network Watcher

Diagnose and gain insights into network performance and health. Packet capture by setting alerts and gain access to real-time performance information



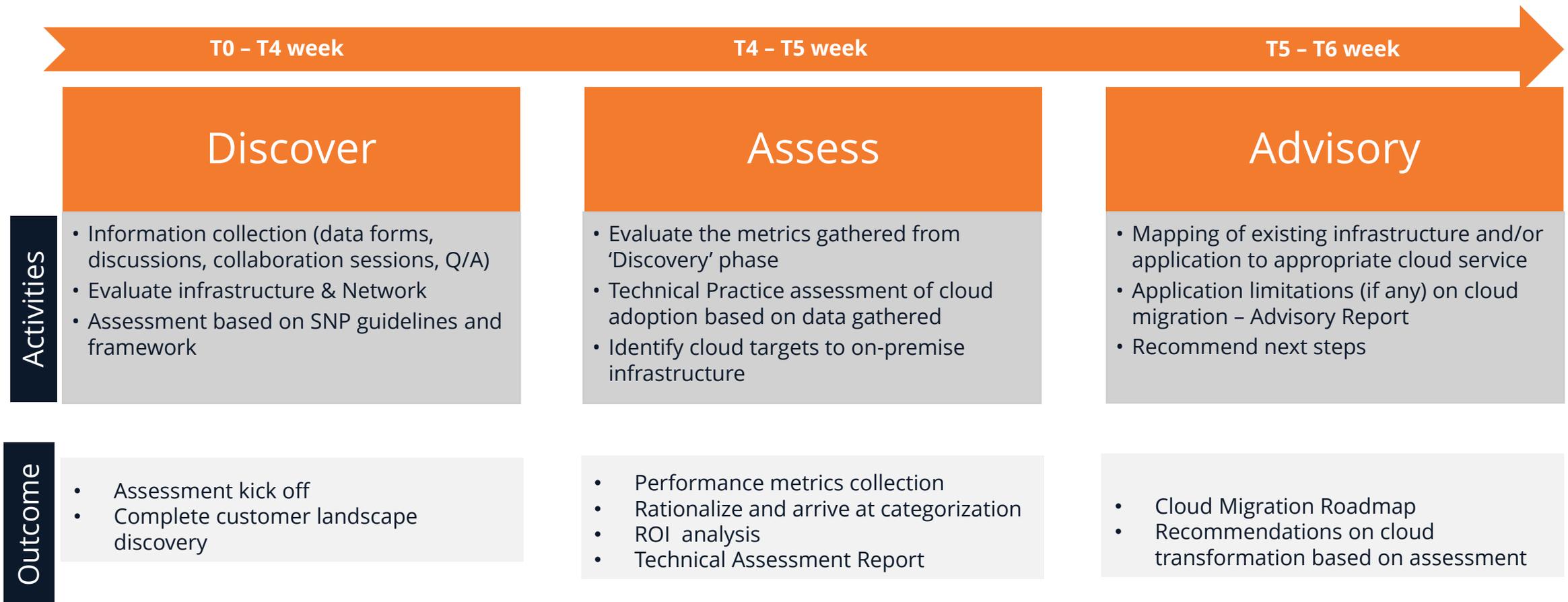
### Network Security

Grouping of Network traffic rules as security groups using Azure's NSG(Network Security Group)

### Marketplace Appliance



# Cloud Engagement Model



# SNPs Cloud Migration Services & BCDR

Our cloud migration strategy is designed to assess and plan your on-premise to cloud move with BCDR considerations.



## Migrations

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Migrating on-premise infrastructure to Azure using Azure native tools and utilizing workload native replication capabilities



## Backup

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Backup for your hybrid infrastructure using Azure native backup tools and third party tools like Veeam, Commvault and Carbonite



## Disaster Recovery

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Disaster Recovery setup for Hybrid infrastructure using Azure site recovery and application native capabilities



## VDI solution using Citrix Cloud

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Desktop virtualization using Citrix cloud and Azure to enable tight integration with Azure compute power



## VDI solution with WVD

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Desktop virtualization using Microsoft windows virtual desktops solution to get benefit M365 licensing and Windows 10 multi session OS platform

# Azure as a DR Site

Azure as a DR site reduces infrastructure and application downtime during IT interruptions, without compromising compliance.

Leveraging Microsoft's disaster recovery solutions we help our customers support their applications in Azure and on-premises, giving them comprehensive coverage across Linux, Windows, VMware and Hyper-V virtual machines, and physical servers.

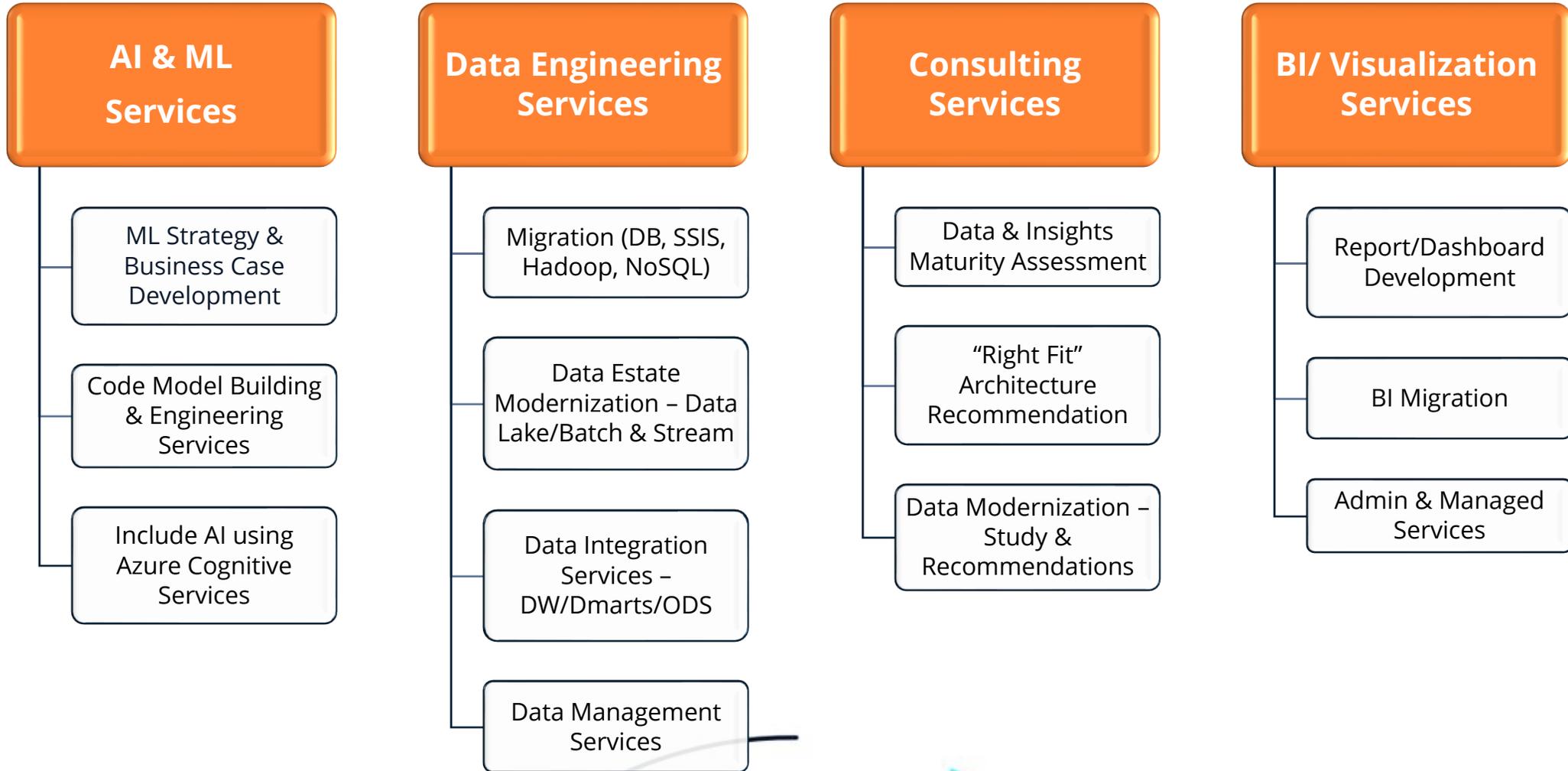
## On-Premises Infrastructure

- ❖ Standalone Infrastructure
- ❖ One or Two-Tier application infrastructure
- ❖ Multi-Tier application infrastructure

## Azure Infrastructure

- ❖ Standalone Infrastructure
- ❖ Two-Tier application Infrastructure
- ❖ Multi-Tier application infrastructure
- ❖ PAAS Application infrastructure

# Azure Data & AI Services



# Azure Databricks Implementation

SNP Technologies and Microsoft bring the power and ease of using Azure DataBricks Platform-as-a-Service (PaaS) to modernize your data warehouse with a robust Apache Spark™ analytics platform in the cloud for high performance and global scalability.

## SNP Offers:

- ❖ Simplified data integration & ETL.
- ❖ Leverage machine learning for interactive & advanced analytics.
- ❖ Real time data processing.
- ❖ Seamlessly collaborate your data engineers, data scientists or business analysts on shared projects using interactive workspace and notebook experience.
- ❖ Build with your choice of language, including Python, Scala, R and SQL.
- ❖ Get easy version control of notebooks with GitHub and Azure DevOps.
- ❖ Leverage the Azure Active Directory (AAD) security framework to seamlessly integrate data from Azure SQL DB, Kafka on HDInsight, Azure SQL Data Warehouse, Cosmos DB, Azure Data Lake, Azure Blob Storage and Azure Event Hub.
- ❖ Leveraging Azure Databricks we help you integrate data from different sources like Couchbase, Elasticsearch, CSV files, JSON files, Redis and more.

# SNP's Azure Databricks Implementation Process

## SNP's 2 Week Engagement Process

### Strategy Briefing/Envisioning Workshop

SNP's service team including a Cloud Platform Architect, Data Scientist, Azure Data Platform Architect, and subject matter experts work with the customer to ideate high-priority transformative use cases that address specific business challenges.

### Business Discovery

SNP will conduct a business discovery session to explore business challenges and analytics capabilities that can help you meet specific business challenges and opportunities to drive innovation.

### Develop Proof of Value

SNP works with the customer to select one high-priority use case focused on their desired business outcomes to develop a proof of value demonstrated through a prototype, and/or pre-prediction pilot.

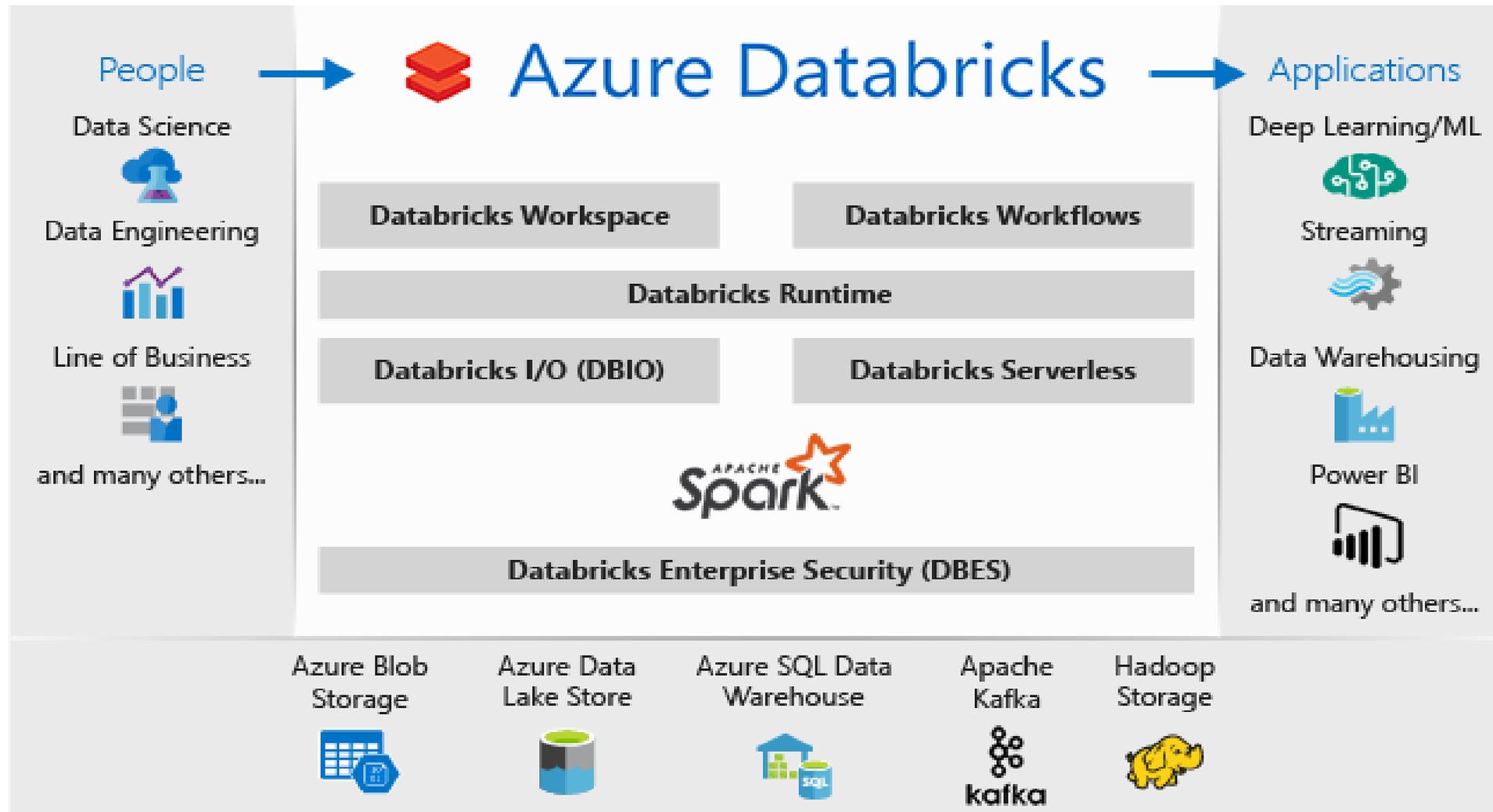
### Roadmap for Continued Innovation

SNP presents proof of value insights with a roadmap for a continued innovation and transformation.

## Data Migrations To Azure SQL Database

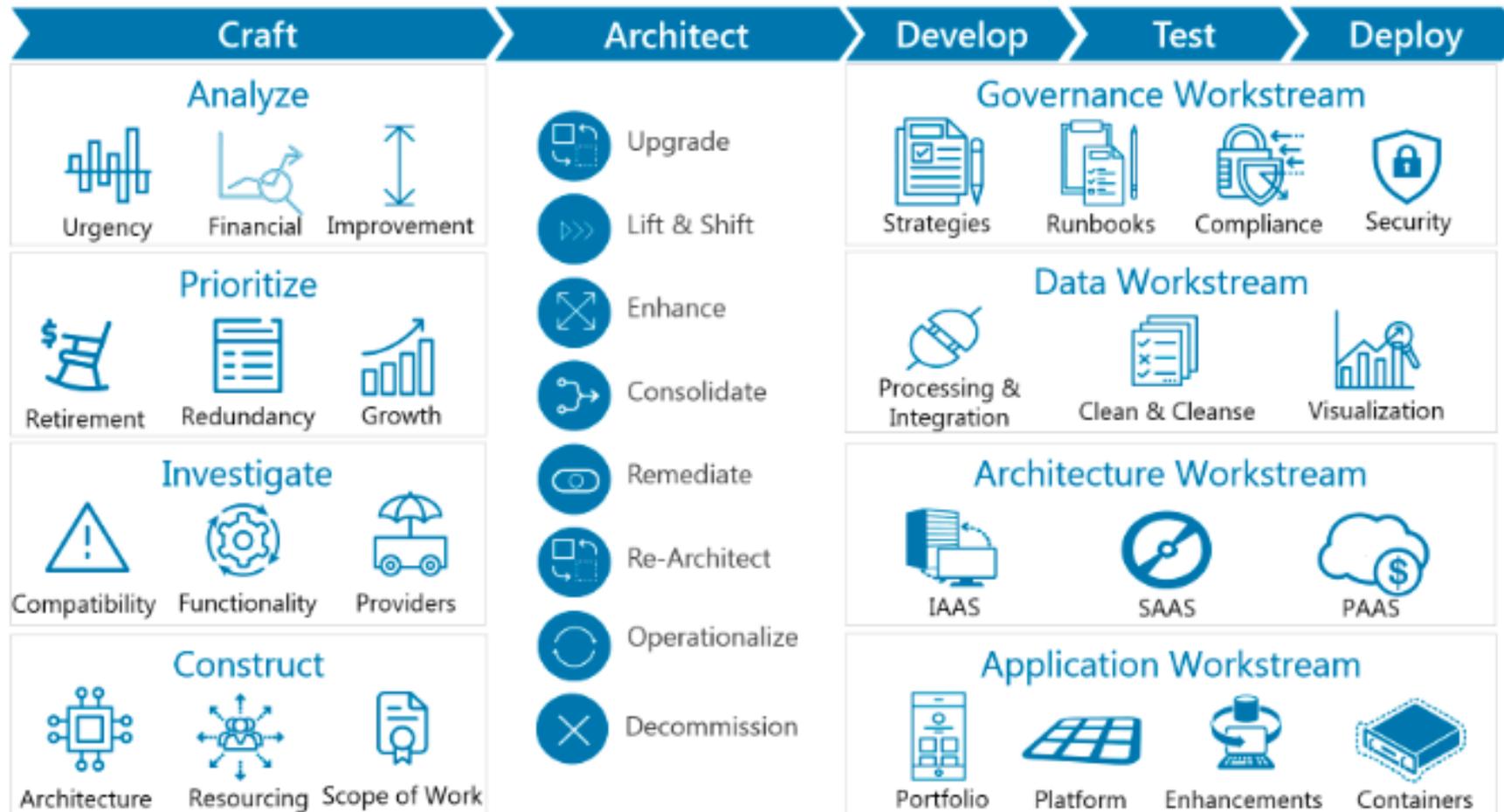
Digital Ready for Analytics process can help you build capacity for sustained innovation and create a data-driven culture to make improved, fast decisions by utilizing the power of data and artificial intelligence.

# Azure Databricks Potential Architectural Diagram

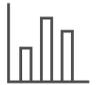


# SNP's Data Estate Modernization Services

In order to drive internal understanding and the value story behind a modern data estate in the cloud, we offer cloud data platform development services built around proving out identified business scenarios using architectures.



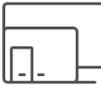
# Modern Data Warehouse Architecture with Advanced Analytics



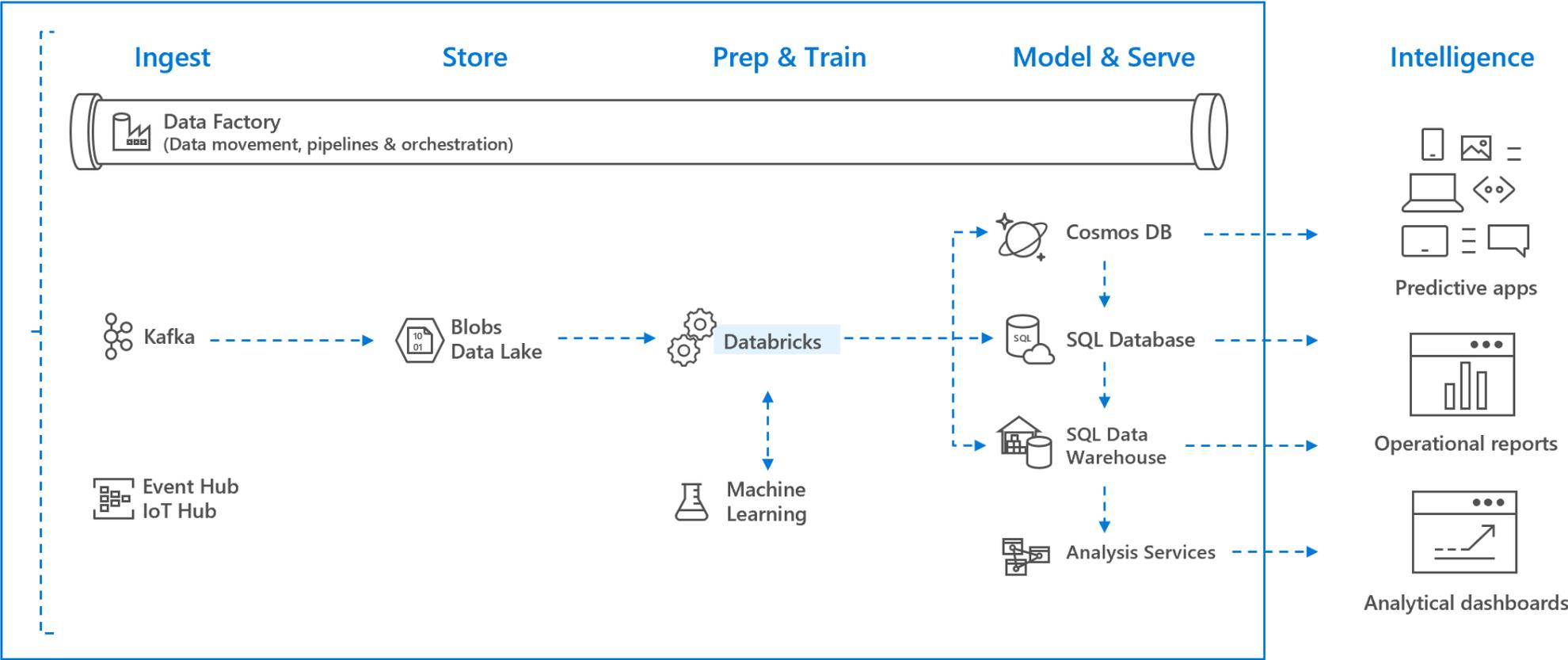
Business apps



Custom apps



Sensors and devices



# Azure Database Migration Services for SQL Databases

SNP Technologies has helped organizations reduce the complexity of cloud migration by using a single comprehensive service instead of multiple tools. Our Azure Database Migration Service is designed as a seamless, end-to-end solution for moving on-premises SQL Server databases to the cloud

## SNP's 4 Week Engagement Process

Our 4-week assessment program offers expert engineering resources to facilitate data migrations from on-premises MS SQL including SSIS, SSAS, SSRS, and SQL Data Warehouse to Azure (IaaS, PaaS – Azure SQL, Elastic Pool, Managed Instance, Azure Synapse, and Azure Analysis Services). We look forward to address the migration and product feature specific blockers of our clients through this program.

### Week 1 & Week 2

- ❖ Discovery and assessment of data assets.
- ❖ Definition of target architecture.
- ❖ Identification of risks and issues.
- ❖ Identification of any work around changes.
- ❖ Roadmap for migration.
- ❖ Assessment report or PoC build.

### Week 3 & Week 4

- ❖ Architecture designed by SNP from PG assigned.
- ❖ Weekly sync with PG through project life cycle.
- ❖ Microsoft executive level visibility as needed.
- ❖ Direct escalation channel with project group as needed.

# Migrate On-Premise Database To Azure PaaS Platform

## SNP's 4 Week Engagement Process

### Educate

- Conduct awareness training sessions to educate about Azure Database Instances, Data Warehouse and options available to migrate.
- If needed, conduct workshops for the clients and remove barriers for migration planning.

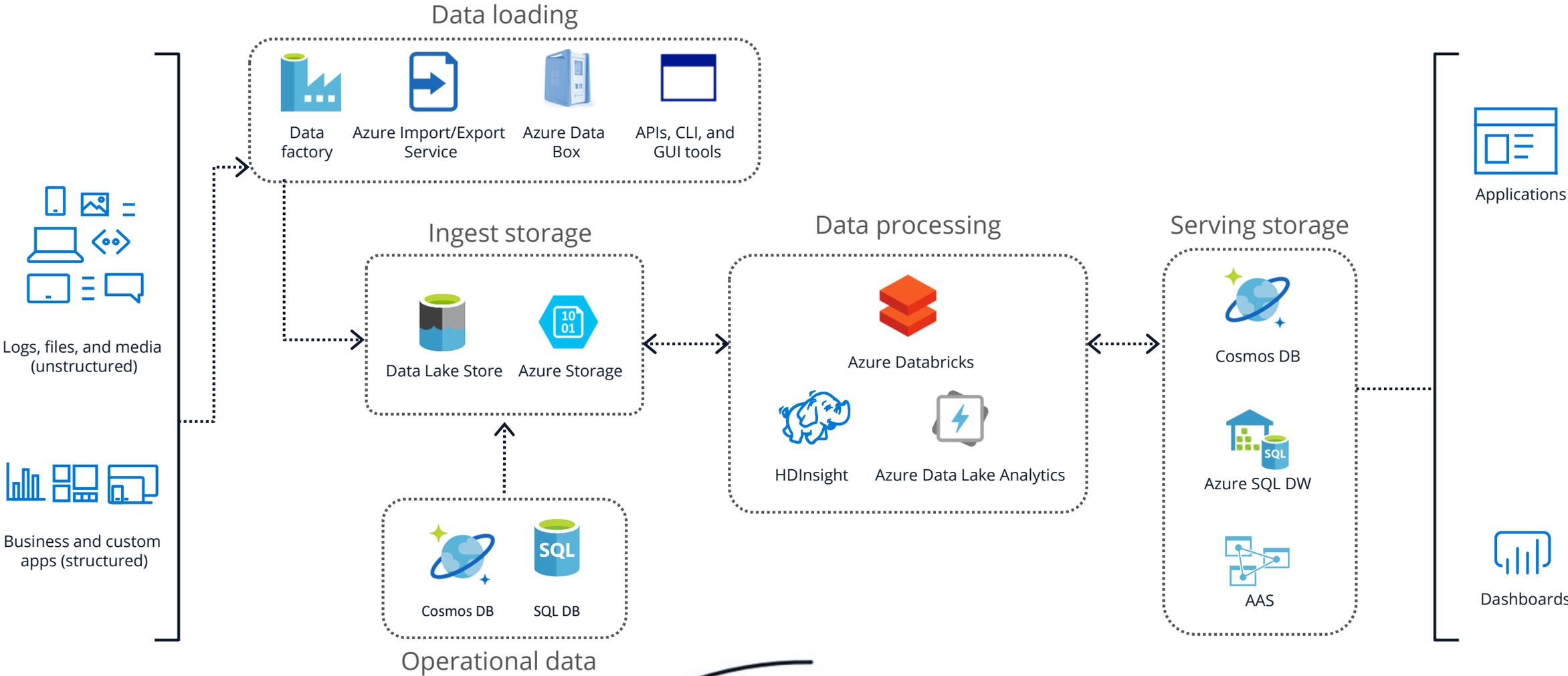
### Remediate

- Assist the clients in planning by conducting architecture design sessions, building migration blueprints etc.
- Migration architects will review remediation items, provide guidance and help prepare you for migration.

### Migrate

- Migration architects from SNP team will assist in the migration and onboarding process.
- Conduct technical 'How To' workshops for client teams.
- Our migration architects will travel to customer locations as needed to support.

# Data Engineering Patterns in Azure



# Artificial Intelligence with Microsoft Azure

SNP and Microsoft bring you the power of Artificial Intelligence to enable your digital transformation and automation. We help your organization to modernize existing applications with infused AI. SNP has successfully implemented AI to transform business processes across various industry verticals like manufacturing, retail and financial services.

## Integrate AI APIs

Leverage pre-built AI APIs in solutions

## Custom Modelling

Train & deploy models using customer data

## Custom Algorithms

Design and implement custom algorithms. Deep algorithmic understanding.

## Vertical Specialization

Provide packaged, industry specific AI solutions.

# Artificial Intelligence Practice Model

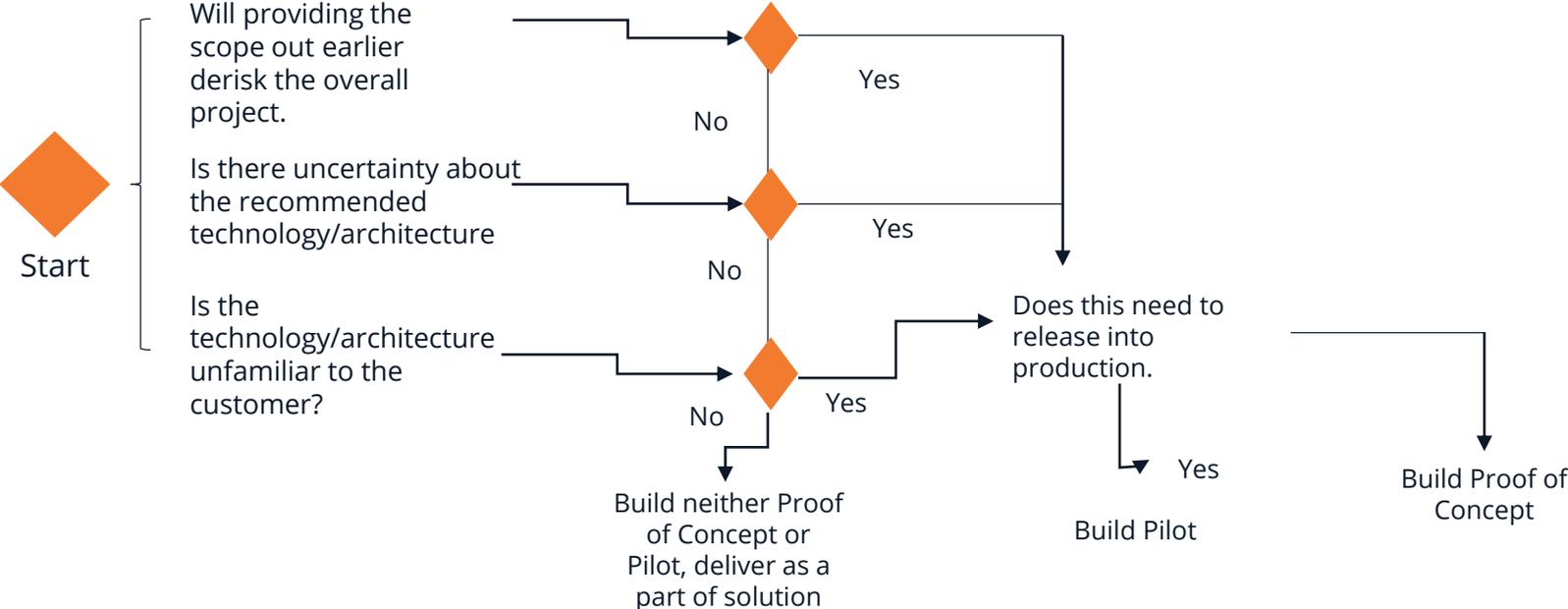


Envisioning sessions allow the customer to understand the opportunities with AI in their business requirements



Proof of Concepts is the 4-week engagement process to help the customer get comfortable with both the AI capabilities and the implementing partner. It allows the partner to understand the real situation with respect to availability of quality data and possibility of solving the problems.

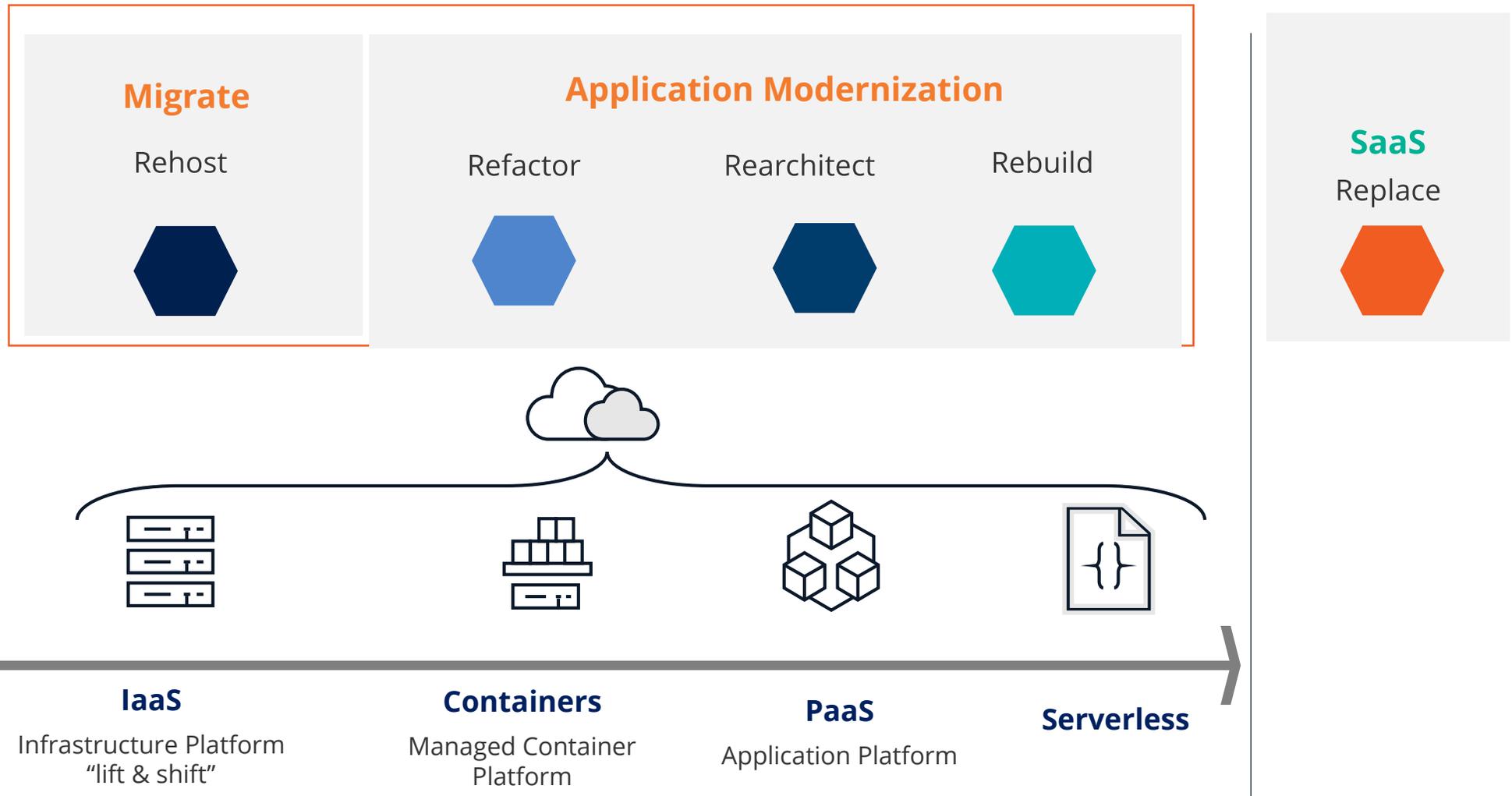
# Delivering a Pilot



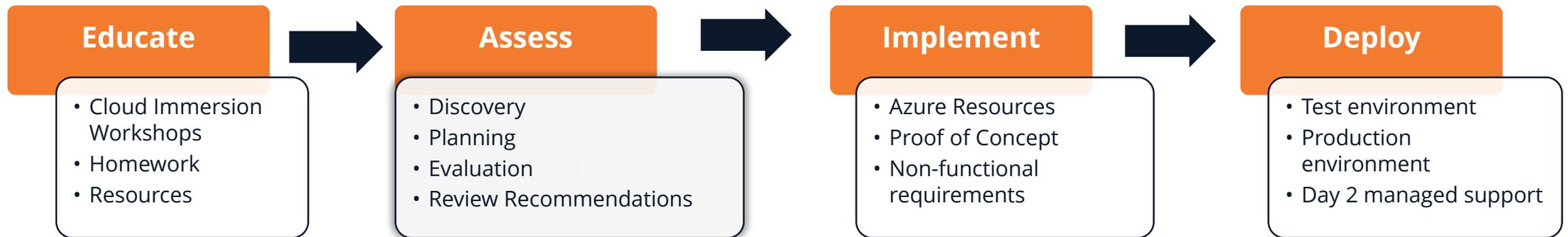
A PoC might secure the project, however, a pilot is what you will take to production.

# Application Innovation with Microsoft Azure

Application Innovation is the refactoring, re-purposing or consolidation of legacy software programming to align it more closely with Azure cloud approach.



# Application Innovation Engagement – Service Delivery Stages



# DevOps 2.0

## Infrastructure as Code

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Create and deploy mission critical application through software-defined infrastructure. Using code to provision and deploy servers and applications

## Hybrid CI/CD with Azure DevOps

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Implement the practice of continuous integration/continuous development(CI/CD) with Azure Dev Ops

## Branching Strategy

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Code stability and Ability to separate stable code from In-progress or broken code. Reduce build issues. Work on different features/hotfixes independently. Increase the release cycles and merges without conflicts

## DevSecOps

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Focus on security during development process. Avoid compromise of security during Agile development lifecycle. Automate the Security in Container Life cycle

### Tools



ANSIBLE



HashiCorp  
Terraform

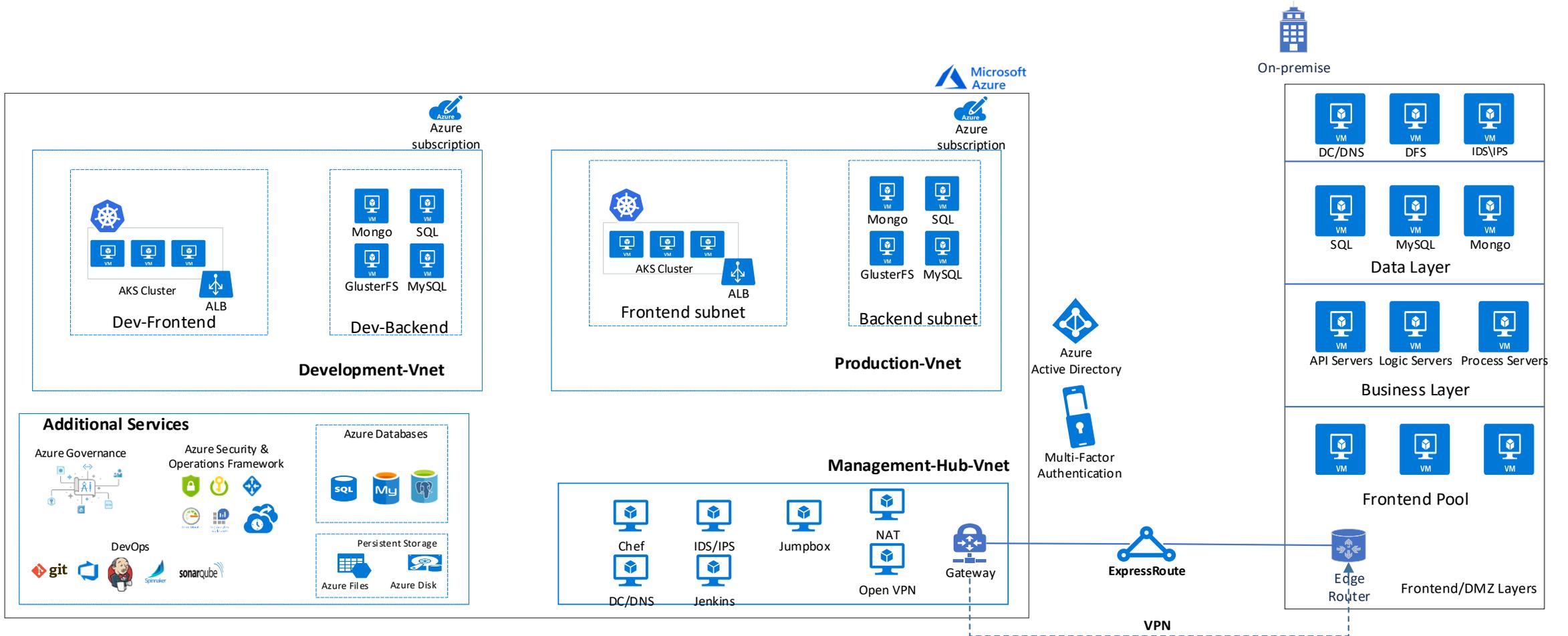


Azure DevOps



GitHub

# Hybrid Cloud with Azure AKS



# SNP's Managed Services

Businesses are quickly adopting cloud to leverage the reliability, high availability, reduced redundancy, and lesser overall management costs. However, legacy applications and line-of-business (LOB) applications which aren't cloud born, tend to remain on-premise. Managing such complex environments and cloud seamlessly, can be cumbersome. Identifying and recruiting certified experts, is time-consuming and takes focus away from the core business.

This is where we come in, SNP can manage Microsoft Azure Environment with our industry acclaimed processes and technology platforms help us provide comprehensive solutions for monitoring, managing, and optimizing your cloud resources and workloads. Cloud Managed Services from SNP offer a complete portfolio of management services for various cloud components.

## WHY MANAGED SERVICES?

Enterprises with several workloads running in the cloud face major challenges such as:

- **Technical & Operational Visibility:** It's critical for businesses to have a single dashboard to monitor their infrastructure. The absence of a unified view of the cloud structures and operations, leads to duplication of resources, and misses in proactive responses to real-time issues such as machine downtime.
- **Skills & Cost:** It is hard to hire and retain the right cloud experts. Many firms have instances where unused or non-optimally utilized cloud resources are draining budgets.
- **Security & Compliance:** Many enterprises face the risk of security issues associated with cloud. The problems range from inadequate compliance, lack of encryption, insufficient risk assessment, poor data redundancy, data leakage, and other threats.
- **Optimization:** With the growing use of cloud technologies, cloud optimization is moving from being a luxury to a necessity for cloud services. Optimization requires closely monitoring resources to ensure maximum productivity, as well as security and compliance.

## WHY SNP?

**Digital Operations Center** with Next Generation Industry Standard Engine designed with the below Service delivery model:

- **24x7x365 Technical Operations:** SNP's technical support professionals are available around the clock to resolve issues quickly and effectively
- **Optimized Tooling and Extreme Automation:** Custom tooling and automated templates simplify daily cloud operations.
- **Service Delivery Operations:** Monitoring and management of Cloud Environment with best practices framework.
- **Technical Account Manager:** Certified cloud specialists and a named Technical Account Manager (TAM) will coordinate escalations, help ensure technical issue resolution and focus on account operations.
- **Service Collaborations:** Regularly scheduled account reviews help ensure alignment with your business objectives and goals.

# SNP's Cloud Managed Services Portfolio



**CSP HOSTING SERVICES**



**SUPPORT DESK OPERATIONS**



**MANAGED AZURE INFRASTRUCTURE OPERATIONS**



**MANAGED DR & BACKUP OPERATIONS**



**MANAGED DATA OPERATIONS**



**MANAGED DEVOPS SERVICES**



**MANAGED SECURITY OPERATIONS**

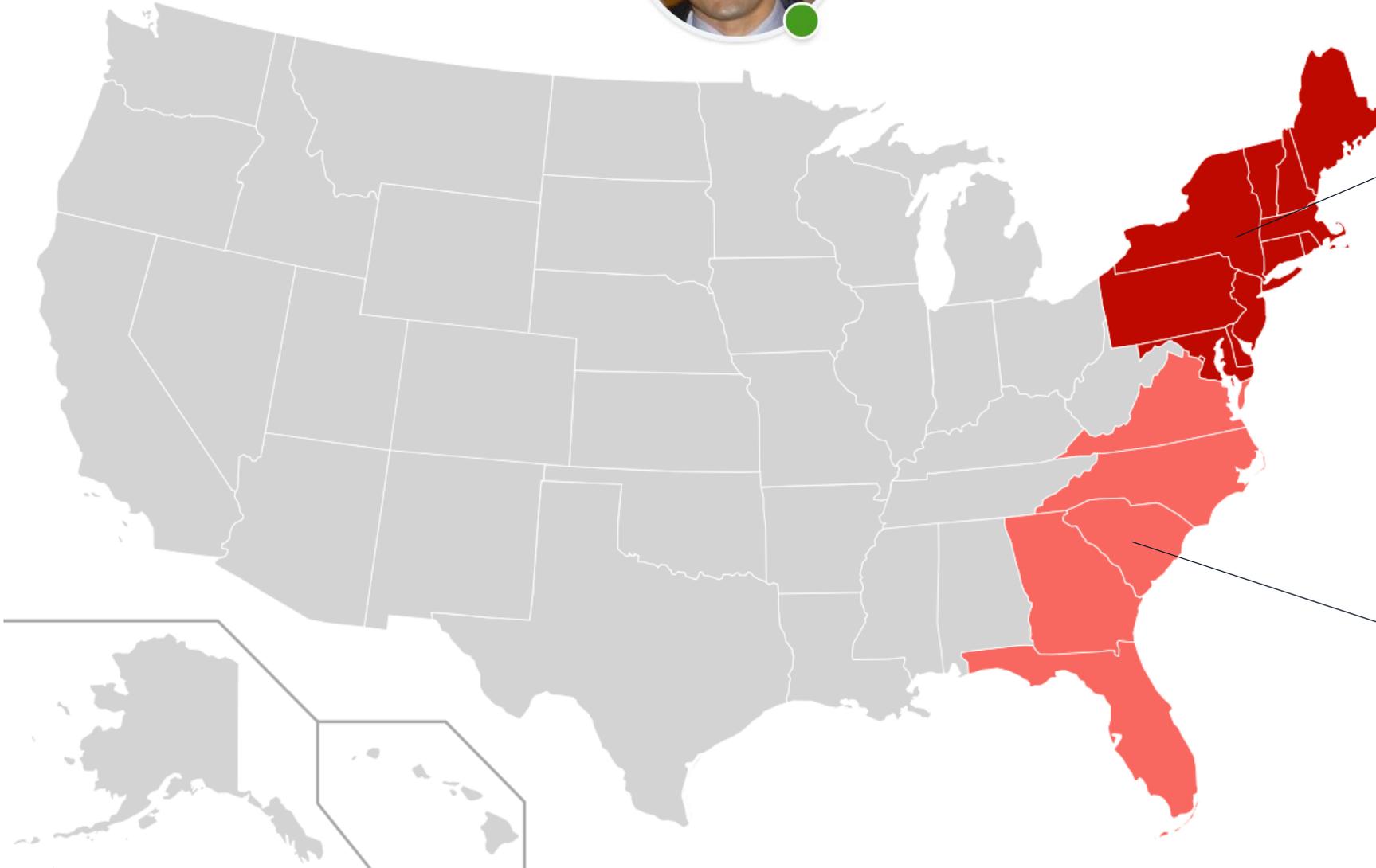


**PREMIUM MANAGED SERVICES**

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