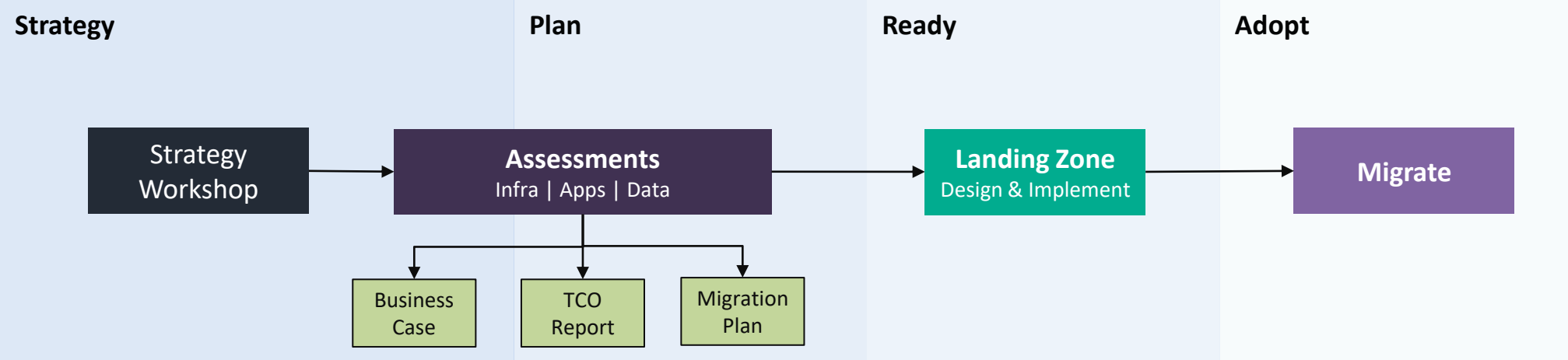
BrainScale
Engineering. Cloud. Value.™

Cloud Migration

Cloud Migration Approach

A Microsoft Cloud Adoption Framework aligned approach



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Workshop & Assessment

CAF Workshop & Assessment

Strategy Workshop

- Understand **Business Objectives & motivations** for Cloud Adoption
- Identify **Current State** & Pain Points
- **Cloud Adoption Framework** walkthrough & assessment
- White Boarding: Define a new or finetune existing Strategy
- Identify priority Initiatives & next steps

Assessment & Planning

Infrastructure Assessment
Digital Estate Discovery, Compatibility Analysis, Infra Rationalization

App Modernization Assessment
Source Code Analysis. Containerization, PaaS readiness & remediation planning

DB Modernization Assessment
DB Upgrade, Cross DB migration, PaaS readiness & remediation planning

Deliverables

Business Case
DB Upgrade, Cross DB migration, PaaS readiness & remediation planning

Cost Planning
Cost Forecasting, TCO/ROI analysis

Migration Plan
Readiness, Remediation, Migration Approach, Migration Wave Planning

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Landing Zone

Design & Enablement of a Cloud Landing Zone

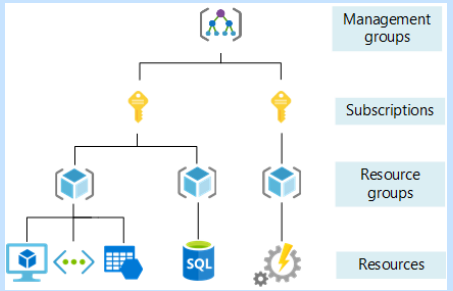
Resource Organization

Define Management Groups
Containers to Manage Access, Policy & Compliance

Subscription Strategy
Prod | Non-Prod | Sandbox | Shared Services

Naming & Tagging Strategy
Traceability & visibility for accurate Chargeback/Showback

Resource Group
Structure Resource groups and re-align existing resources



Identity & Access Control

IAM
Integrate existing AD with Cloud Centralized Identity Management

MFA
Enable MFA to add an additional layer of security

RBAC Strategy
Define roles & access to each roles: Owner, Contributor, Custom Roles (resource specific), Reader

Networking

Network Design
Architect & Design the overall network topology: Single Subs / Hub & Spoke / vWAN

Network Connectivity
Identify the right strategy: S2S VPN or Express Route

Perimeter Network Security
Architect & Design considering perimeter security objectives:
- Firewall
- Third party NVA
- Application Gateway / WAF
- NSG Configurations
- DDoS for internet facing resources

Security & Compliance

Azure Blueprints
Design Azure Blueprints for rapid deployment of environments

Azure Policy
Enable Azure Policy as per best practices to ensure compliance

Security Center
- Enable Free tier to collect & analyse security data, and provide security recommendations
- Enable Standard tier for Threat Detection & Alerts

Monitoring & Cost Management

Azure Monitor
- Monitor & Visualize Metrics for: Applications, VMs, Containers & Networks
- Query & Analyse Logs
- Setup Alerts

Azure Cost Management
Analyse Cloud Spend
Define Budget & set up Alerts

Azure Advisor
Enable Azure Advisor for:
- Security Recommendation
- Cost Optimization
- Operational recommendations for Policies, Logging etc
- Recommendations for HA

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Migrate

Migration Methodology

Readiness

OS & DB Readiness
- Validate readiness of Operating System & DB to migrate
- Create Remediation plan

Application Readiness
- Validate readiness of the Application based on dependency / publisher support etc.
- Create Remediation plan

Remediate

OS Upgrade
Upgrade the OS for identified workloads

DB Server Upgrade
Upgrade the DB where applicable for identified workloads

App Server Remediation
Remediate at Application level as applicable

Migrate

Migration Tool
Configure the Migration tool to enable replication

Replicate
Data Replication to Cloud

Test & Optimize

Test
Test Availability, Performance, and remediate if needed

Optimize
Optimize Infra based on Cost & Performance

Productionize

Go-Live
Once tested & Validate, make cloud the primary DC

Title

Thank You