BrainScale
Engineering. Cloud. Value.™
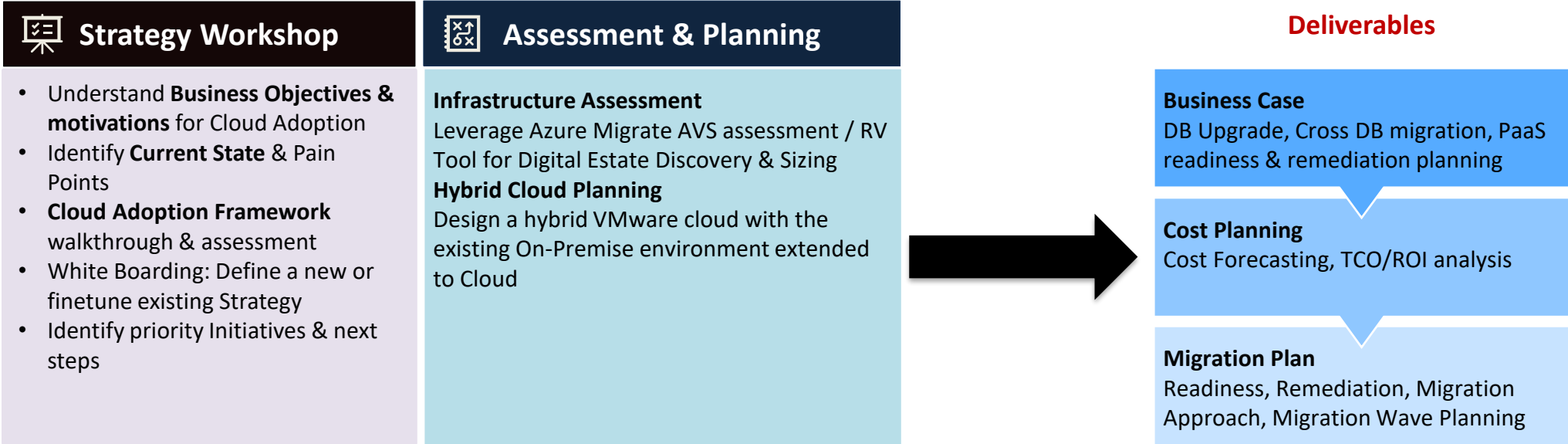
Azure VMware Solution: Migration

Cloud Migration Approach

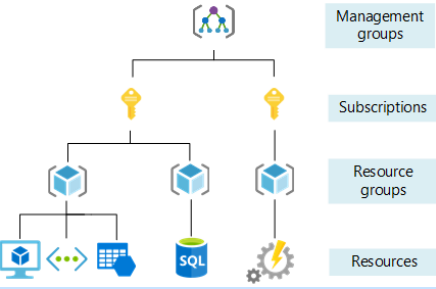**A Microsoft Cloud Adoption Framework aligned approach**

Strategy	Plan	Ready	Adopt

Strategy Workshop → **Assessments** Infra | Apps | Data → **Landing Zone** Design & Implement → **Migrate**

- Business Case
- TCO Report
- Migration Plan

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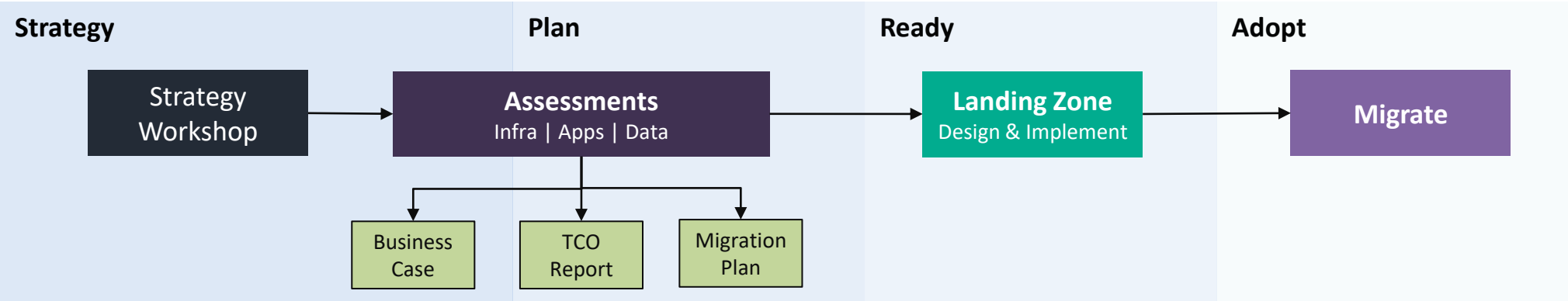
Workshop & Assessment

CAF Workshop & Azure VMware Solution 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
Leverage Azure Migrate AVS assessment / RV Tool for Digital Estate Discovery & Sizing

Hybrid Cloud Planning
Design a hybrid VMware cloud with the existing On-Premise environment extended to Cloud

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
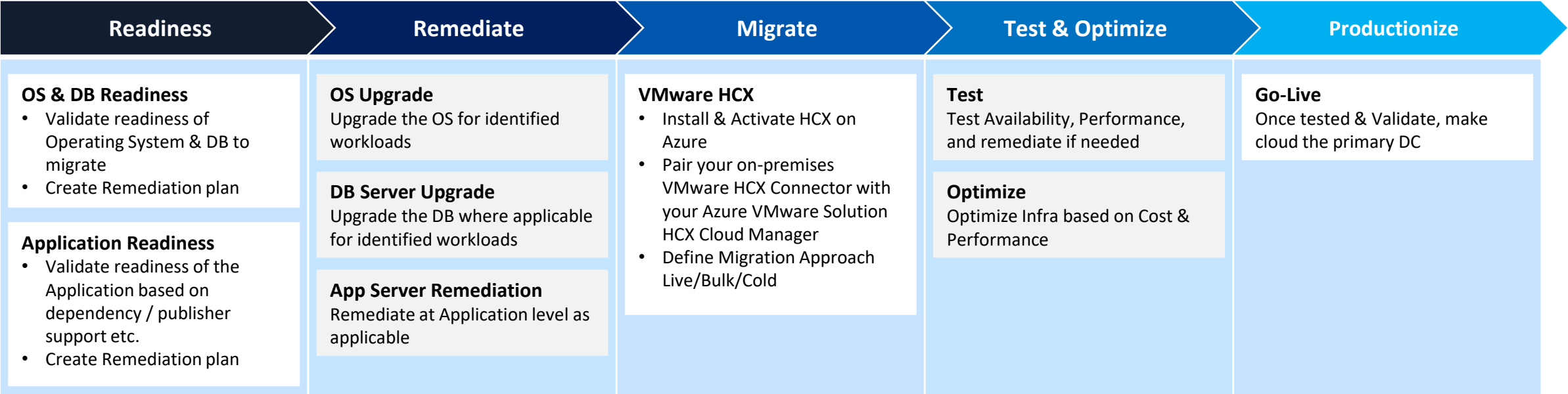
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Landing Zone

Design & Enablement of a Cloud Landing Zone

Resource Organization	Identity & Access Control	Networking	Security & Compliance	Monitoring & Cost Management
Define Management Groups Containers to Manage Access, Policy & Compliance	**IAM** Integrate existing AD with Cloud Centralized Identity Management	**Network Design** Architect & Design the overall network topology: Hub & Spoke / vWAN	**Azure Blueprints** Design Azure Blueprints for rapid deployment of environments	**Azure Monitor** • Monitor & Visualize Metrics for: Applications, VMs, Containers & Networks • Query & Analyse Logs • Setup Alerts
Subscription Strategy Prod | Non-Prod | Sandbox | Shared Services	**MFA** Enable MFA to add an additional layer of security	**Network Connectivity** Identify the right strategy: S2S VPN or Express Route	**Azure Policy** Enable Azure Policy as per best practices to ensure compliance	**Azure Cost Management** Analyse Cloud Spend Define Budget & set up Alerts
Naming & Tagging Strategy Traceability & visibility for accurate Chargeback/Showback	**RBAC Strategy** Define roles & access to each roles: Owner, Contributor, Custom Roles (resource specific), Reader	**Perimeter Network Security** Architect & Design considering perimeter security objectives: • Firewall • Third party NVA • Application Gateway / WAF • NSG Configurations • DDoS for internet facing resources	**Security Center** • Enable Free tier to collect & analyse security data, and provide security recommendations • Enable Standard tier for Threat Detection & Alerts	**Azure Advisor** Enable Azure Advisor for: • Security Recommendation • Cost Optimization • Operational recommendations for Policies, Logging etc • Recommendations for HA
Resource Group Structure Resource groups and re-align existing resources				

Migrate

AVS Migration Methodology

Readiness	Remediate	Migrate	Test & Optimize	Productionize

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

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

VMware HCX
- Install & Activate HCX on Azure
- Pair your on-premises VMware HCX Connector with your Azure VMware Solution HCX Cloud Manager
- Define Migration Approach Live/Bulk/Cold

Test
Test Availability, Performance, and remediate if needed

Optimize
Optimize Infra based on Cost & Performance

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

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Azure VMware Solution

Reference Architecture
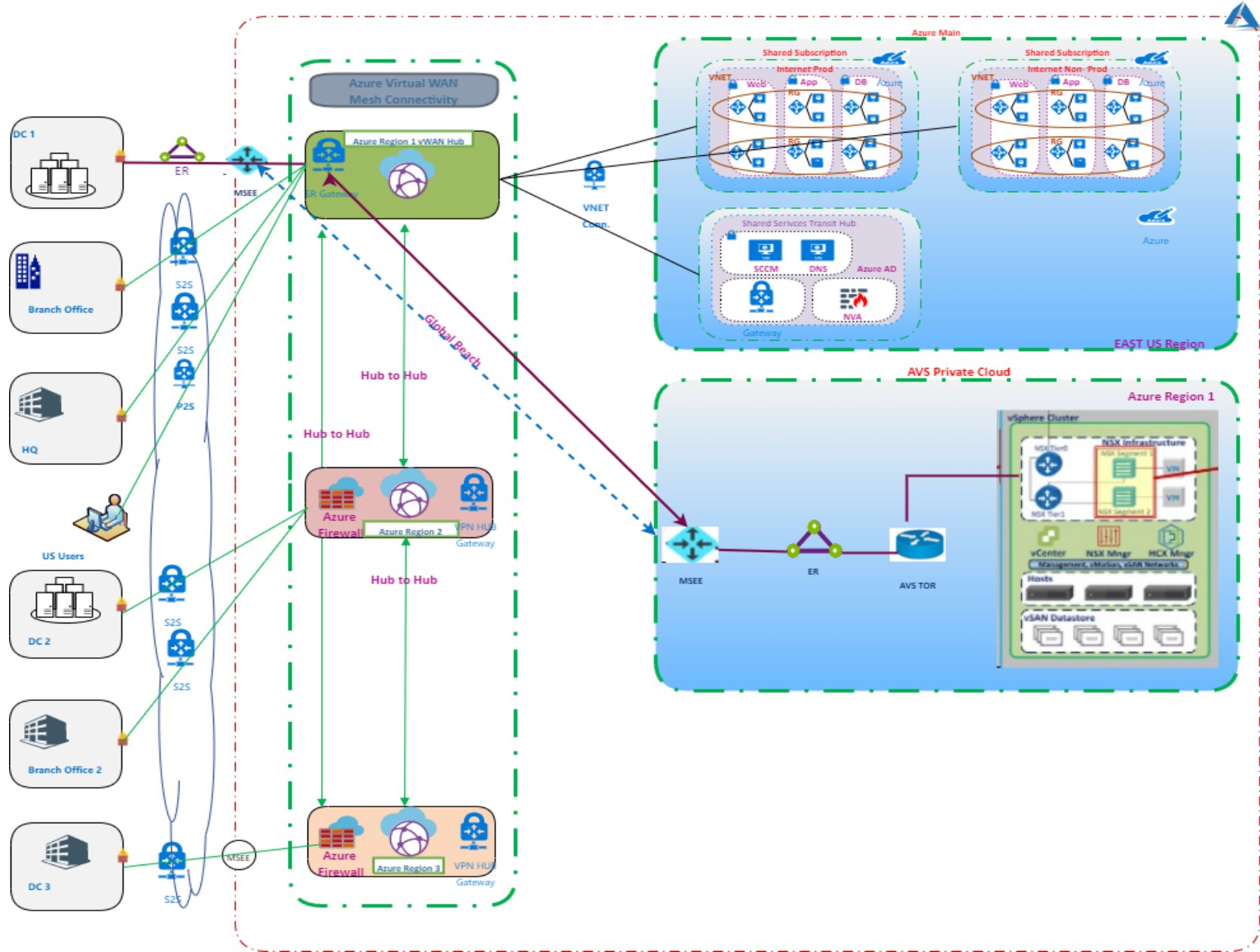
Thank You

Reach out to us at contact@us.brainscale.com

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