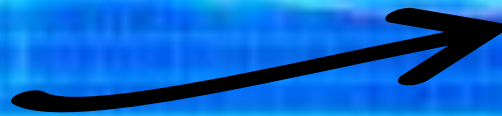


CLOUD MIGRATION SOLUTION APPROACH



UNDERSTANDING

Based on this use case, I have assumed following things to be taken care. Here I have created a High-level Design approach and document.

Following are...

- Existing Environment have overall 22000 workloads
- Already Migrated 10000 workloads to Cloud
- Plan to migrate 12000 workloads split as below
 - 70% of workloads to be migrate to Azure Cloud
 - 20% of workloads to be migrate to AWS Cloud
 - 10% of workloads to be migrate to Google Cloud

Scope

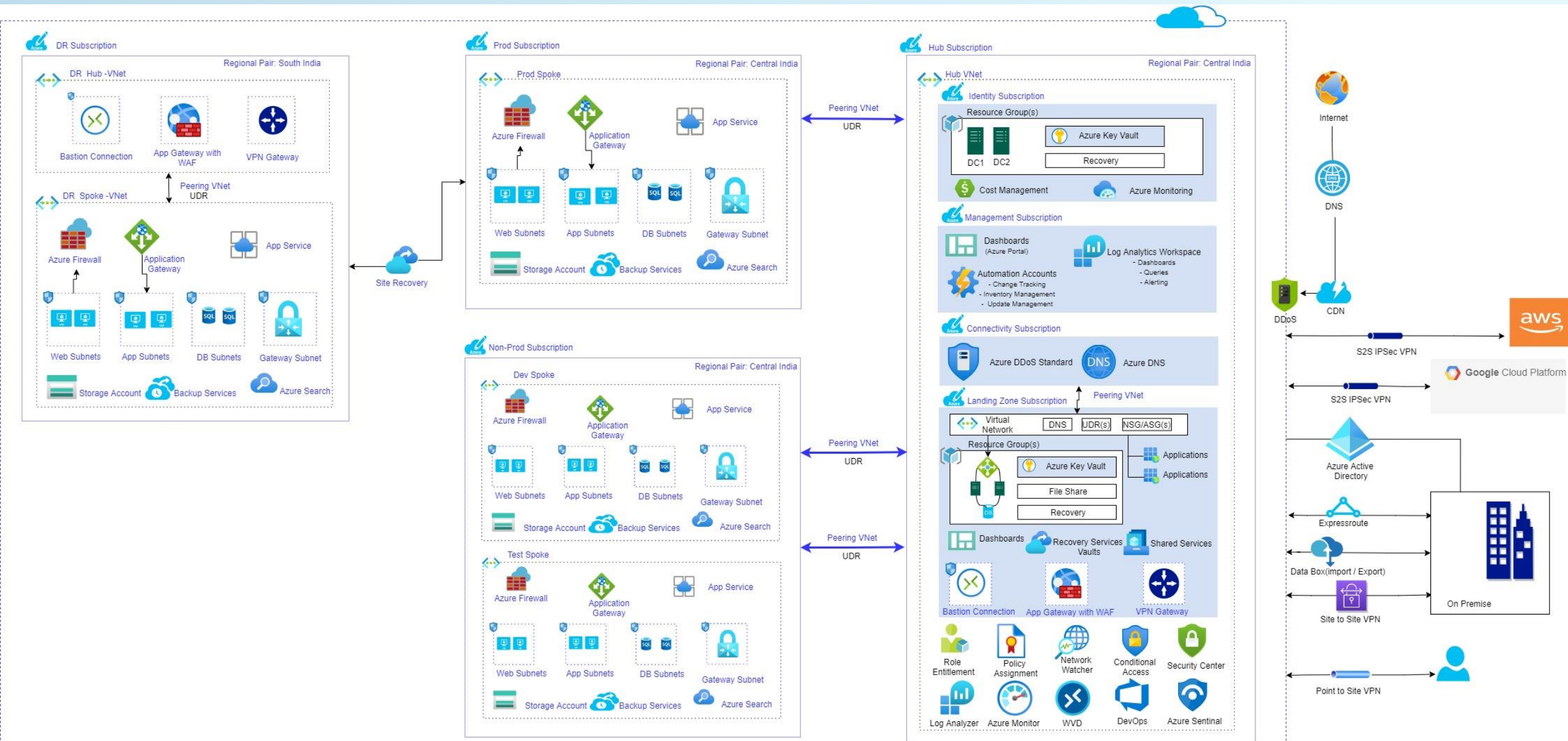
- Consolidating the Datacenters from 125 to < 50, from DC ops/ cloud ops to another

Note:- based on my understanding and assumptions I have created this ppt

AGENDA

- ▶ Target Architect Design
- ▶ Key Highlights
- ▶ Migration Phases
- ▶ Migration Approach
- ▶ Migration Highlights
- ▶ Migration Timeline
- ▶ Hypercare & Ops Hands off

HIGH LEVEL ARCHITECT DIAGRAM



KEY HIGHLIGHTS

- Foundation : Microsoft Cloud Adoption Framework used for led this Solution
- Landing Zone : Landing Zone is separated so that I will be managing anything related to Logging, Monitoring, Security & Network
- Connectivity : VPN Gateway, Express route, and Data box(Import/Export)
- Azure AD : Azure AD connect, Azure AD
- AVD : Azure Virtual Desktop with default protection
- Backup : Azure backup will be used for backup of PROD environment
- Storage : File Storage, Blob storage, Managed Disk, SSD, HDD, Premium SSD, Archival storage, Cool tier, Hard tier
- Disaster Recovery: RPO / RTO, Azure Site Recovery
- Security : Azure Firewall, AWAf, NSG,ASG, DDoS, Security Center, Defender, Sentinel, Antimalware
- Monitoring : Azure Monitoring, Log Analytics, Network Watcher
- Authentication : PHS, PTA, AD FS, Conditional Access
- Network : DNS, Load balancer
- Automation : Patch update, Patch Management, DevOps CI/CD - IaC

MIGRATING TO THE AZURE PUBLIC CLOUD

▶ Migrating users and Groups

- Using Idfix
- Source anchor
- Azure AD connect

▶ Migrating Applications

- Modernize
- Rewrite

▶ Migrating Servers

- Lift & Shift
- Recreate VM



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MIGRATION HIGHLIGHTS

Migration Strategy

- Cloud ready Servers directly migrate to Azure
- Cloud ready with condition Servers migrate to Azure
- Rehost / Re-Architect / Re-Platform

Domain & DNS Migration

- AD/Child domain/ AAD to Azure AD
- Azure AD connect and Syncing to AZ AD
- Exchange to Office365

Data base Migration

- IaaS and PaaS
- Data box / SSMA / DMA
- SSRS

Storage Migration

- IaaS and PaaS
- Storage Types
- Disk Types

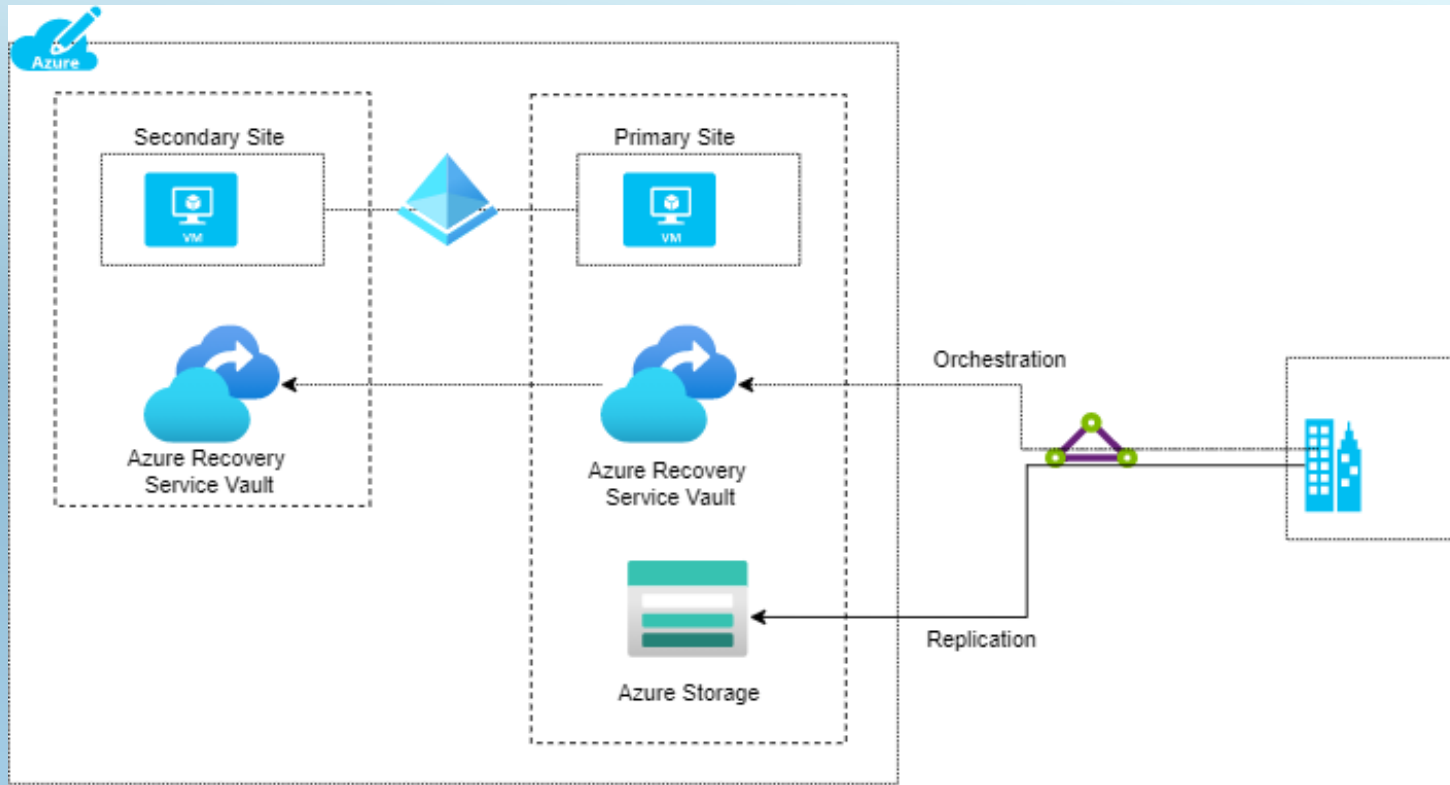
App Migration

- Monolithic to Microservices
- IaaS or PaaS and SaaS

OS Upgrades

- Patch Management
- Update Management
- Security Center

DISASTER RECOVERY



- Disaster Recovery Strategy
- RTO / RPO
- Disaster Recovery
- Warm Standby
- Hot site / cold site



CLOUD MIGRATION APPROACH



Discovery & Assessment

- Infrastructure Foot print
- Application and Interdependencies
- Data Protection Requirements
- Disaster Recovery Requirements
- Risk Identification



Design & Build

- Cloud design & build
- Commissioning
- Migration / Cutover plan
- Deploy Solution
- Testing and Recertification



POC & Migrate

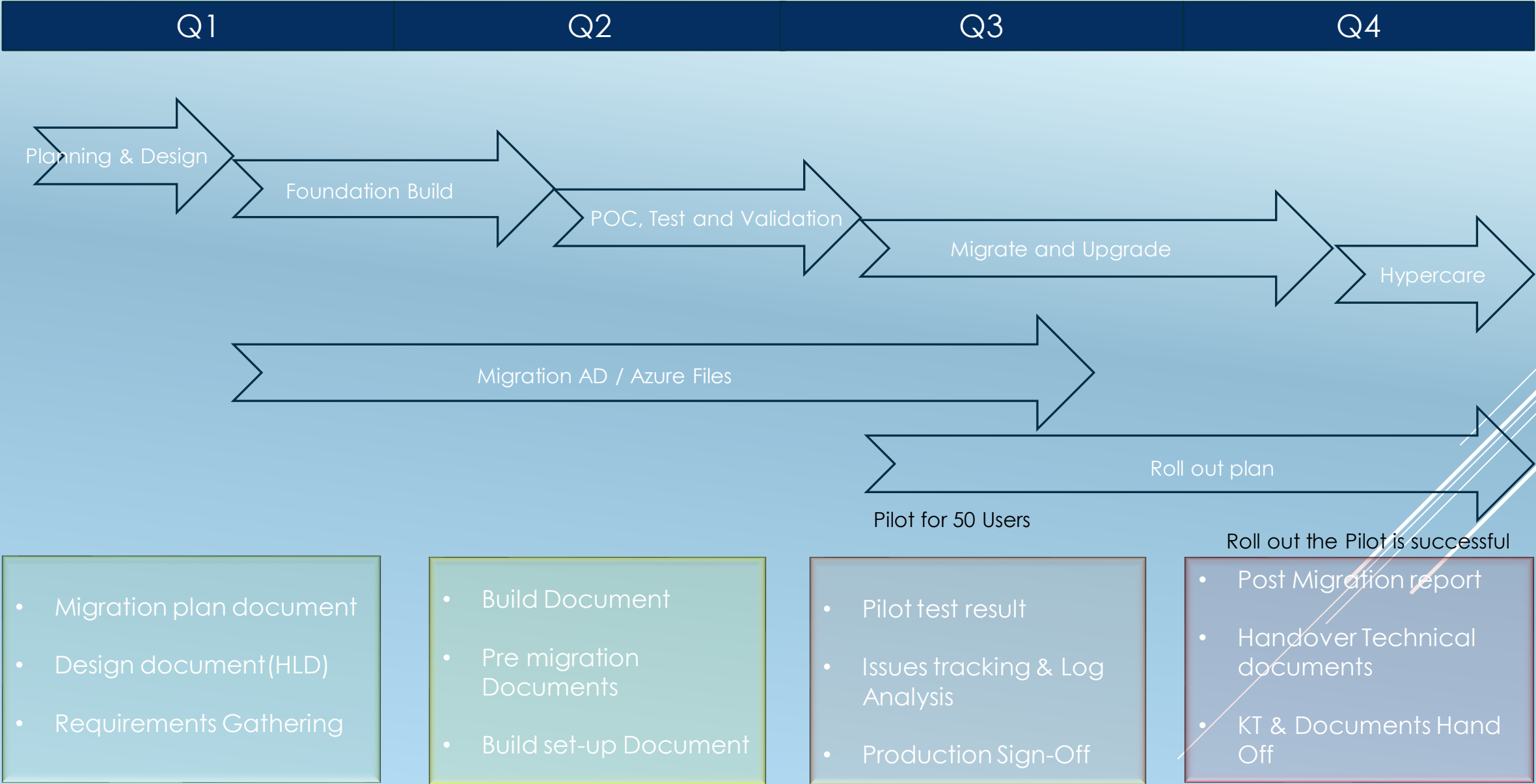
- Pilot Migration Test
- Test New Technology
- Monitoring and Certification
- Identify Opportunity for Improvement



Hypercare & Ops Handoff

- Monitoring and Management
- Backup & Restore Check up
- DR Check up/ Drill
- Utilization and Performance
- Re-engineering

HIGHT LEVEL PROJECT TIMELINE AND DELIVERABLE



Q & A
THANK YOU