

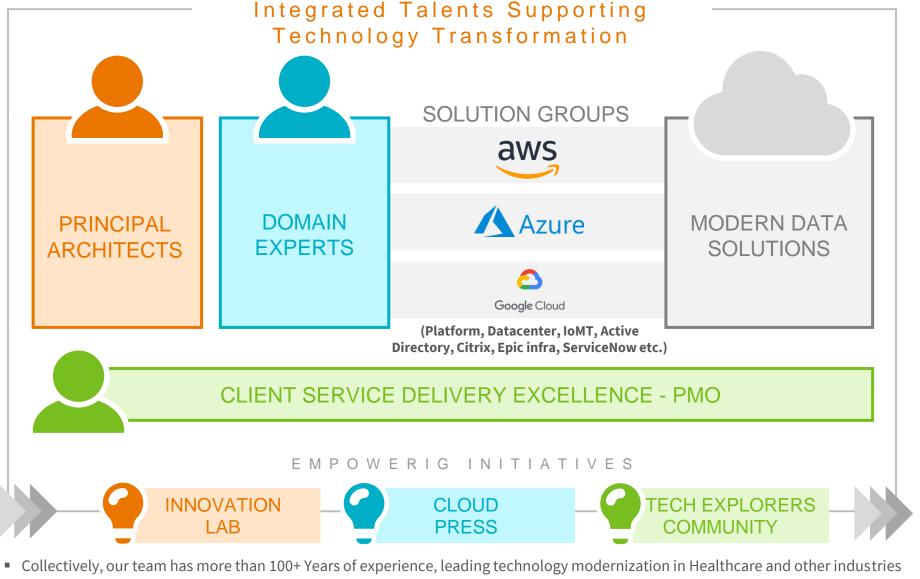
NORDIC CLOUD Epic ON AZURE\_APPROACH



# **CLOUD OPERATING**

- MULTI CLOUD & PLATFORM **COMPETENCIES**
- ✓ ADVANCE SOLUTIONS **CAPABILITIES**
- DEEP HEALTHCARE **EXPERIENCE**
- **ACTIVE CADENCE WITH** TECH PARTNERS AND EHR **VENDORS**





- Prior to Nordic we are "ex IBM, ex AWS, ex Cognizant, ex BlueOrigin" etc.,
- We have executed multiple medium to large scale enterprise transformation including Tier 3-4 datacenters across globe
- A team that is comprised of both Healthcare domain experts and tech leaders

#### **Cloud Alliance Partnership Charter**

Our levers to progress on Go-To-Market strategies



















Mainstream of Partners - Alliances



# Cloud Service Catalogue — "Innovate IT Services & Accelerate Customer Outcomes"

#### Tech Advisory & Cloud Adoption

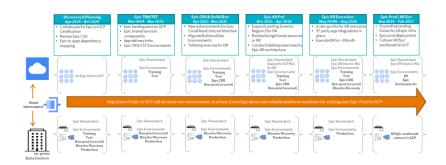
- TCV assessment to cloud Getting Cloud ready
- Build next gen IT Road map, spanning enterprise apps and architectures
- Develop and Disaster recovery strategies and solutions(On-premise, Hybrid)
- Establish Healthcare Cloud Landing Zone (POC, Training, Data archival)
- Cloud based Data analytics assessment and implementation
- Enhance Interoperability Solutions
- Assessment for Cognitive Services AI/ML & Implementations
- Infrastructure productivity (Cloud & Onpremises) - KPI establishment
- End of Life Assessment Infrastructure and applications
- FinOps / Cost assessment / Cost savings

#### Get to Run & Run better Services

- Monitoring Service assessment and Integration (As-Is assessment, Gap identification, Tagging, governance reports)
- Cloud Center Of Excellence, like operating model for continued operational excellence
- Infrastructure, database and Application BAU Operations (EHR and Non-EHR Apps)
- Cyber Security (assessment, recommendations and Triage)
- Identity Access Management (On-Premise and Cloud)
- ITSM / ServiceNow Integration and Implementation
- End to End Infra Automation (Terraform, Cloud Formation, ARM Templates etc.,)

#### Transition & Transformation

- EHR Hosting
- Enterprise Infra and App hosting
- Modernization (Datacenter, Virtualization, Compute, Storage, Backup, Application)
- EHR or Enterprise workload growth assessment
- Guidance on outsourcing / vendor consolidation
- Tenant Integration & consolidations
- Data monetization and De-identification solutions





# **Factory-Based Migration Plan**

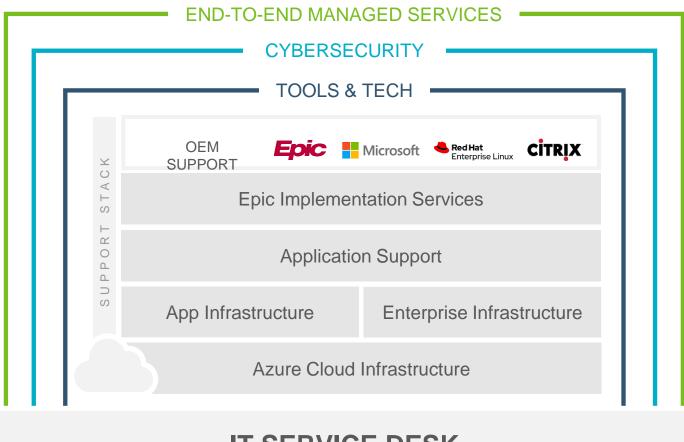


# One Nordic. Endless Benefits.

Beyond a single point of contact and communication, having a **full stack support partner** helps identify root causes for issues (and opportunities)

- ✓ Active handshake between Nordic and Partners
- ✓ Infrastructure as a Code for Automation
- Cloud native tools for Monitoring and access Management
- ✓ Meeting Epic Infrastructure standards

#### **EXAMPLE: NORDIC GOVERNED SUPPORT**



#### IT SERVICE DESK

MANAGEMENT & TRIAGE



Incidents, Changes, Problem Management, and New Market Onboarding

EPIC | CLOUD | APP | SECURITY | IT SERVICE DESK | NEW MARKET ONBOARDING | DATA ANALYTICS | VENDOR RELATIONSHIPS

### Infrastructure-as-code - Templates



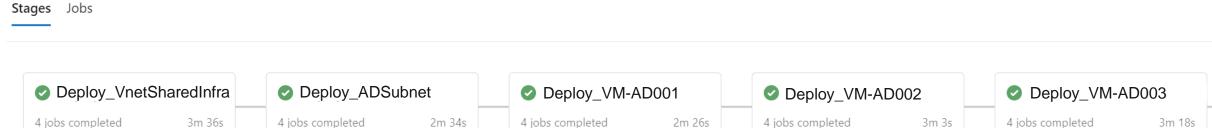




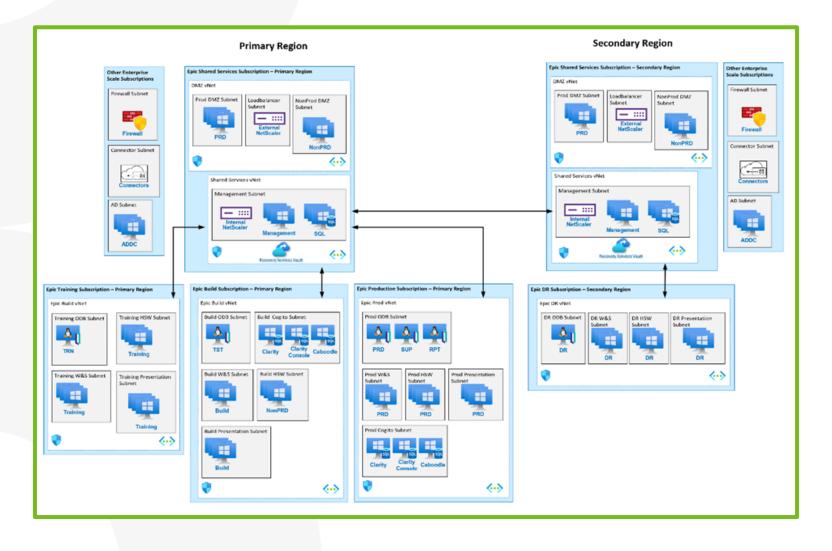
**TEMPLATE** 



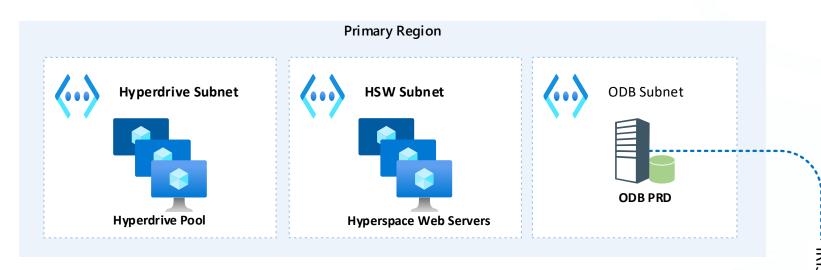


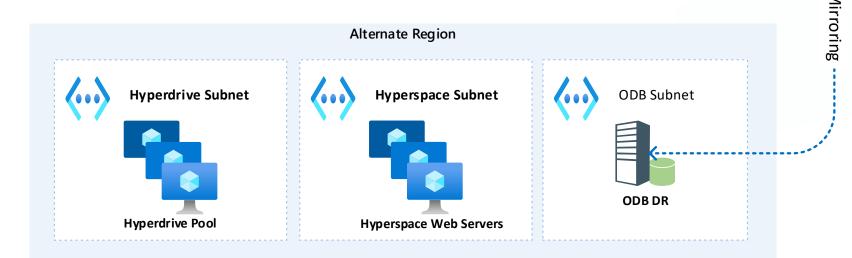


### **High level Epic on** Azure reference architecture

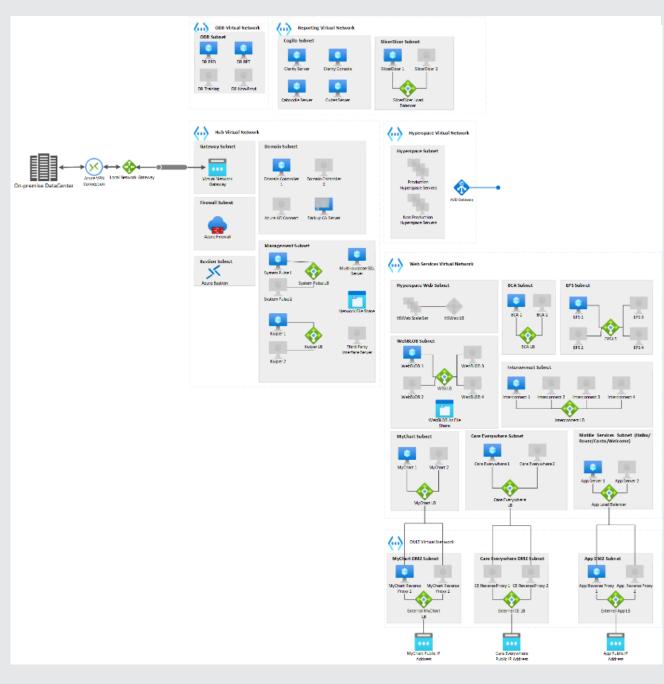


### **Disaster Recovery Approach**



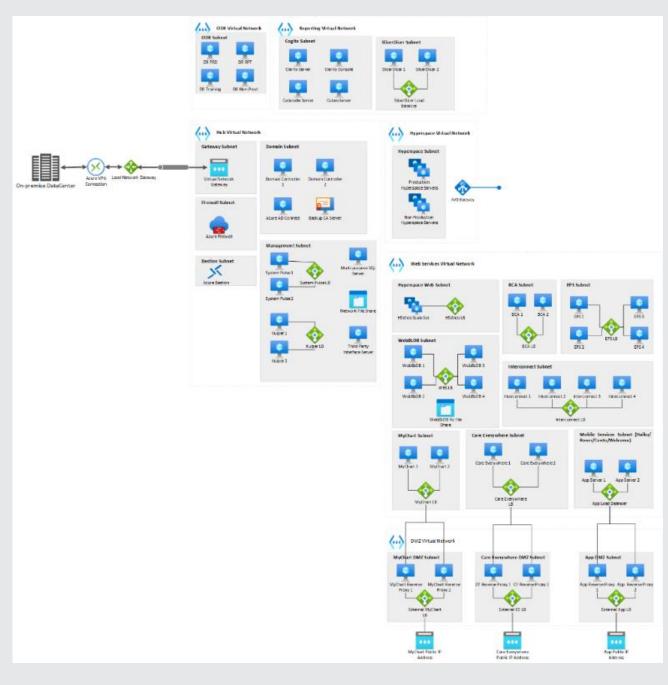


- → Primary/Alternate Region with Pilot Light Approach
- → IRIS Mirroring for near pointof-failure RPO



## **Pilot Light Approach**

- Infrastructure configured, deployed
- <10% of infrastructure active during production uptime
- Near instantaneous activation of full infrastructure during DR activation



## Pilot Light Approach

- Infrastructure configured, deployed
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Risk Mitigation & Outcome based project plan People & Tech Collaboration, for Cross Functional Synergy Factory based migration workflow with Guardrails

#### 

**Approach** based on environment, waved planned based on dependencies (app, infra and end user exp)

**Risk mitigation** integrated project plan with governance and outcomes driven work break down structure

**Establish** an active governance, Two in the box, where both technical and functional inputs are collectively important

Guard rails around: System availability, Compliance, Access Management, Post Migration system functionality, User Experience, Documentation, Transition, DR Tests, Hyper Automation



#### SAMPLE AZURE WORKLOAD MIGRATION **INITIAL DR & TOOLS ADVANCEMENTS DISCOVERY & PLATFORM ON-PREM MIGRATION & TOOLS ADVANCEMENTS PRODUCTION MIGRATION & DR TEST READINESS DECOMMISSION** 3 10 11 9 12+ PHASE 1 PHASE 2 PHASE 3 PHASE 4 PHASE 5 **Establish Shared** Build DR Workload - Alternate **Prod Migration Decommission of Epic** Discovery of OnPrem Infrastructure<sup>2</sup> Production environments, platform **Tools Advancements Dependency Mapping** services from Datacenter Migrate Training ODB<sup>3</sup> Coordinate 1 DR Test<sup>4</sup> (On-Epic Patch upgrade<sup>5</sup> Azure Platform Readiness Prem to New Azure) Migrate Build on waves Managed Service Ramp up Migration Wave Planning Tools Advancements & Azure Secondary Region Build **Establish Command Center** DR Test (Azure to Azure) Maturity Tools Advancements & Establish Tools Architecture<sup>1</sup> Managed Service Ramp Up Maturity Orchestrate ITSM Integration Managed Services Ramp Up Build Infrastructure as a Code DFIIVFRABIFS Build, Test, Training environment Production and all Epic Final decommission of on-Dependency mappings (app-app + Interim DR arrangements - Hybrid app-infrastructure, ports, IP etc.,) on Azure (Hybrid environment) environments fully on Azure premises env / infra / all structure

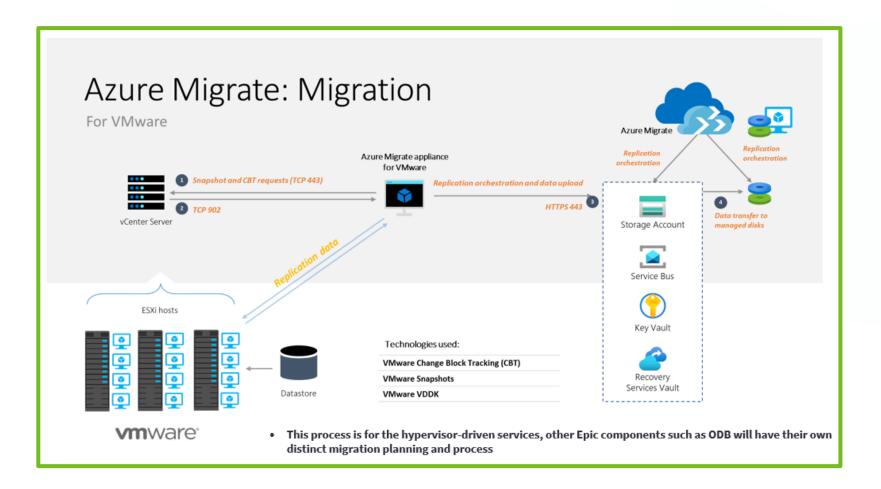
- Azure Core Platform (Core VNet, Connectivity, SIEM etc.,)
- Wave Mapping & Migration methods
- Governance and Command center

- ✓ Tools Maturity and integration of alerts and workflows
- ✓ Managed Services Kick off
- Epic PRD stays on On Prem
- Epic DR env on New Azure
- Tools integration and modernization
- Full managed services with SLAs and Operating procedures
- Final Azure DR failover testing

migrated to Azure

### **Azure Migrate**

Migration will be done using Azure Migrate, which provides a centralized hub to assess and migrate to Azure servers, infrastructure, applications, and data.



#### AZURE MIGRATE

- ✓ Unified migration platform is a single portal to start, run, and track your migration to Azure
- ✓ Range of tools is for assessment and migration
- ✓ Assessment and migration

#### AZURE MIGRATE HUB

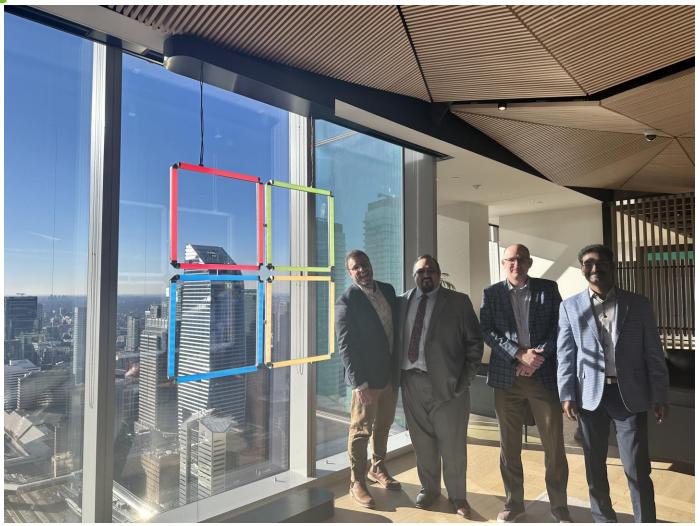
- ✓ Windows, Linux, and SQL Server
- ✓ Ability to assess databases and migrate them to Azure SQL Database or to SQL Managed Instance.
- ✓ Migrate large amounts of data to Azure quickly and costeffectively using Azure Data Box products.

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### **Collaboration with Microsoft**

Microsoft Toronto MTC – After a joint RFP Orals with

**Microsoft** 



# Microsoft NY MTC – After a joint Partner **Development Session**

