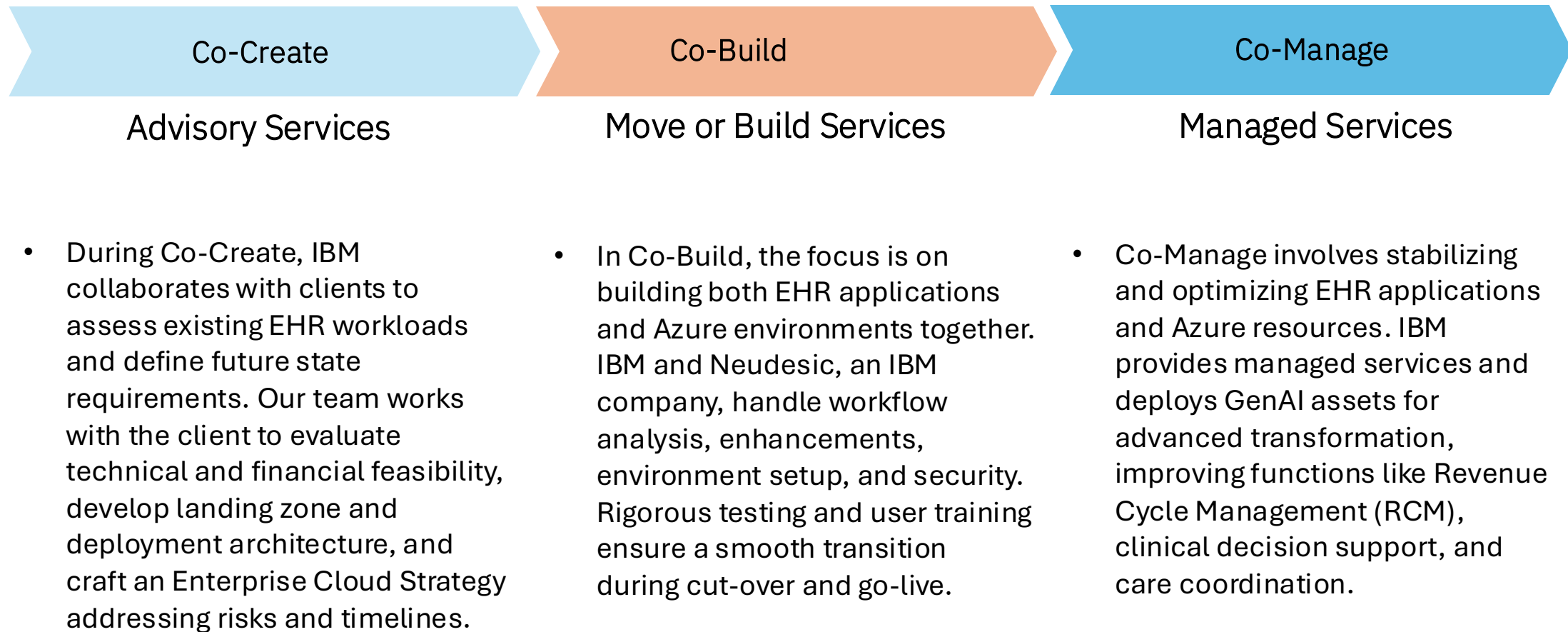# Migrating EHR to Azure

IBM **Consulting**

Simplifying EHR Migration to Azure

Three offerings 'Advisory', 'Move/Build' and 'Manage' services have been developed by IBM to take health providers on the journey from on-prem to Azure

Co-Create	Co-Build	Co-Manage
Advisory Services	Move or Build Services	Managed Services

- During Co-Create, IBM collaborates with clients to assess existing EHR workloads and define future state requirements. Our team works with the client to evaluate technical and financial feasibility, develop landing zone and deployment architecture, and craft an Enterprise Cloud Strategy addressing risks and timelines.

- In Co-Build, the focus is on building both EHR applications and Azure environments together. IBM and Neudesic, an IBM company, handle workflow analysis, enhancements, environment setup, and security. Rigorous testing and user training ensure a smooth transition during cut-over and go-live.

- Co-Manage involves stabilizing and optimizing EHR applications and Azure resources. IBM provides managed services and deploys GenAI assets for advanced transformation, improving functions like Revenue Cycle Management (RCM), clinical decision support, and care coordination.

Co-Create: Advisory Services

	Assess and Analyze EHR Instances	**Evaluation of COTS Apps interfacing with EHR**	**EHR Migration Business Case**	**Non-EHR Migration Business Case**	**Holistic Roadmap – Migration to Cloud**
Description	Understand the on-prem EHR instances deployed, concurrent users, performance requirements, storage projections etc. Determine the optimal target cloud platform for EHR.	Assess the criticality, retirement, dependency of each of the COTS application that interface w/ EHR; Document the server, CPU, storage etc. requirements and projections	Document KPIs needed to measure the cost & benefits of EHR migration. Identify data sources to compute business value and a high-level business case	Calculate the cost of ongoing on-prem implementation vs on cloud. Document the cost benefit analysis, BEP, ROI etc.	Develop EHR migration Roadmap with appropriately sequenced projects to execute initiatives, Readiness, Product(s) / Service(s) & Sol Architecture
Scope	EHR Instances	All COTS apps interfacing with EHR	EHR Instances	All COTS apps interfacing with EHR	EHR and Non-EHR applications
Key Deliverables	EHR Infrastructure Analysis Report – Technical Architectures, Servers, CPUs, Storage etc.	Infrastructure Analysis Report - Inventory of COTS apps, Interface/ dataflow diagrams	EHR Business Case Document – Cost comparison(On-Prem vs Cloud), TCO etc.	Application Business Case Document – Cost comparison(On-Prem vs Cloud), TCO etc.	Strategy/Road Map Document – Timelines, resource requirements, risks, dependencies etc.

Co-Build: Move/Build Services

	EHR Upgrade/ Containerization Services	Integration Services	Data Migration/ Transformation Services	Automated Testing. Services	EHR Training Services
Description	Prepare existing EHR applications and supporting services	Prevent business disruptions using temporary systems/ interfaces and parallel runs.	Migrate/move data from EHR on-prem database into EHR database on cloud	Develop a holistic test plan and perform end-to-end testing, performance , security testing etc. for successful migration of EHR to cloud	Provide comprehensive, role-based training and assessments to enable all client resources manage on going EHR related tasks
Scope	Older versions of EHR . Other non-COTS apps in the EHR ecosystem	All upstream and downstream applications (e.g. RIS, LIS...) that exchange information with EHR	All data that EHR exchanges with Clinical, Patient experience, Administrative, RCM systems and devices	Application testing; System testing; Core NW testing; Integration testing Data migration testing; UAT Regression testing , Performance Testing	Classroom & Virtual trainings, Simulations with fictitious patient data Custom scenarios to address client specific situations
Key Deliverables	EHR version and COTS applications prepared for move	Interface engine Temporary interfaces EHR on cloud with all interfaces	Scripts for transforming data Complete set of data from on-prem EHR database	Testing Approach and Plan; Automation Test Scripts Defect tracking	Training plan Role specific materials Security/ Regulation awareness program

Co-Manage: Managed Services

	PMO Services	Application Management	Operational Support	Change Management	Value Tracking/ Reporting
Description	Provide overall planning and Governance through out the duration of managed services	Provide services for ongoing management and optimization of EHR and the interfacing apps	Provide services to gather data, develop dashboards and reports for efficient management of applications and cloud operations	Establish a structure to manage change across all enterprise areas and enable client resources successfully adopt new capabilities and skillsets	Periodical status reporting, incident RCAs, Mitigation process, FAQs, Defect logs etc.
Scope	EHR and all related applications landscape and devices	EHR and all related applications landscape and devices	EHR and all related applications landscape and devices	Overall EHR Program	Overall EHR Program
Key Deliverables	Roadmap Governance Status Reporting Business case	Managed services for Clinical/ Business/ Enterprise applications	End-to-end Monitoring Performance tracking Vendor management	Operations readiness Surveys Roadshows Communications	KPI tracking report Incident RCA report Weekly/Monthly Status reports