The CIO's Cookbook
Architecture

Leading Thoughts

1 | Digital Transformation necessitates continuous changes in Architecture at both ends of the spectrum: Embracing technology improvements in the traditional business models while simultaneously allowing disruption in Traditional business

2 | Role of Enterprise Architecture (and the Enterprise Architects) is critical than ever before to build hyper-agile and hyper-scale business models

3 | Microservices are a "Necessitated mother of Invention" which converted data as a currency for new-age digital disruptors. Think Netflix, Facebook, Amazon and not academia for this new-age staple

4 | Digital mindset is non-negotiable: Not just to grow or transform, you cannot sustain the existing levels without

Considerations

1 Create an explicit Enterprise Architecture function to lead the Digital Disruption process. Separate roles and responsibilities for Enterprise, Solution and Technology Architects

2 Build an eco-system to bring together People, Products(Services) and Partners: create excitement. Don't be a big daddy

3 Provide a reference architecture blueprint to include Data, Hyper-scale, Hyper-agility, Service orientation and Integration considerations. Strongly corelate to enable business growth

4 Select the best-fit Integration platform(s) to support service orchestration, ETL, application integration and effective monitoring & response capabilities

5 Design for experience consistency between web, mobile, chat and application channels. Build agility to incorporate the future: Immersive, Edge based, Interactive, AI based, Containerized, Event driven

6 Distinguish Technology assets and applications that do not match the modern stack. Build a roadmap to modernize and identify the ones that need to sustain as-is

7 Actively govern tech-councils to manage compliance risks (GDPR, SoX), cyberthreats (Zero Trust, Managed Identities and Access) and duplicative investments. Simplify to the extent possible

8 Demonstrate effectiveness of EA investments through Business Value Proposition, Cost Reduction and Cost Avoidance

Why Enterprise Architecture?

Through

Teams	Commerce Orientation	Technology

To Bring Together

ARCHITECTURE

Through

- Technology Leaders
- Business and Technology Groups
- Compliance and Purchasing
- Technology Council
- Solution and Infrastructure Architect

Culture → Strategy → Technology → Outcome

Prescribe Tools & Methods

Share & Nurture Organization Intelligence

- Business Priorities
- Data Strategy to Manage Scale & Unstructured Data
- Cloud Adoption & Infrastructure Strategy
- Benchmark Industry Standards
- Recommend Ideas For Adoption
- Evaluate Emerging Technologies

Promote Learning & Education

Inculcate Innovation Through Hackathons

Application Modernization

- Micro/Mini Services
- N-Tier Architecture
- AI/ML
- DevSecOps
- Data Analytics
- Hyper-Scale
- Hyper-Agility

Build POC to Demonstrate Business Use Cases

Blueprint The Enterprise
Enable Multi Experience
Decision Making
Reference Architecture

- Maintain Standards
- Create SLA & Response Guidelines
- Eliminate Redundant Tech & Processes
- Retire Legacy

And Measure

- OpEx Reduction & Containment
- Incident Volume & Track Outages
- Demonstrate Revenue Growth & Business Opportunities
- Ensure Compliance
- Dashboards for Decision Making
- Singular Tech Asset Inventory

To Enable

Standardized Integration Platforms & Architecture	Monitoring Response & Resolution Mindset (RCA)	Conformity to Enterprise Standards & Regulatory Requirements	Cyber-secured Internal & External Tech Footprint	Mergers, Acquisitions & Divestitures