Application Modernization on to Cloud

Modernization for cloud native systems involves the basic need to be portable across cloud environments and demonstrate the required resilience, performance efficiency, security on the web. These are best encapsulated through the Twelve Factor App methodology which help realize this vision. This methodology can be applied to apps written in any programming language, and which use any combination of backing services.

- ➢ 40% IT projects will create new digital services and revenue streams that monetize data
- ➢ 70% Of data warehouses are straining the limits of their capacity and performance levels
- ➢ 50% Data migration projects will exceed budget and/or result in some form of business disruption
- ➢ 72% CxOs say technical debt in legacy systems limits their ability to migrate to new technologies or innovate
- ➢ 70% Organization's global transactions running on legacy applications
- ➢ 3X Expected spend to continuously modernize legacy application portfolio by 2025 as compared to 1X investment in innovation

Challenges:

- A long multi-year, complex and costly journey with high risk and failure rate
- Modernizing at speed demands skillset & accelerators and strong change management and governance
- Architecture complexity limits the potential to build the next-gen platforms with integration to legacy systems
- Approach selection require understanding the purpose and organization's acceptable level of risk, cost and impact
- Phased migration starting with a proof of value for stakeholder buy-in and assess provider capabilities
- Define the business case for modernizing legacy systems against the data lake initiatives

Key Benefits

- Reduce redundancies in toolsets and business applications, remove low-value assets.
- Improve efficiency through automation opportunities, such as devlops pipelines and automated decision making.
- Modern architecture that provides modular, future-ready capabilities, and leverages cloud infrastructure
- Identifies and introduces new desired capabilities which drive the business
- Provides platform-based and standards-based security models
- Reduces total cost of ownership of running the business, and frees budget to grow

Modernization Approach

Non-monolithic, change/risk localized to small units of functionality

Auto-scale along both X and Y axis (scale out, scale units of work independently), partitioned data store

(Agile) Extreme

(Flexible)N

Modular

(Scale) Cubed

DevOps/CI/CD enabled, extremely low time to market – from concept to rollout

Modular design enables extreme flexibility to change, add/update new channels with minimal impact