Advantages of Cloud

- Resilience
- Security
- Rapid Elasticity
- Cap-ex Free
- Rapid Infrastructure
- Increased Flexibility
- Managed Infrastructure Services

- 5% of organizations have migrated at least half of their applications to the cloud, but that number is set to increase to 20% by the end of the year.
- 30% Moved to based cloud on customer following requirement
- 41% Moved to cloud industry trend
- 52% Moved to cloud to improve costs, productivity, agility
Challenges

How to have business continuity during migration?

Identifying and resolving dependence of other application, hardware, firewall, network, security etc

Is your application ready for cloud or does it need re-architecting?

Private /Public /Hybrid What deployment model suites the application

Identify the right cloud SaaS or PaaS or IaaS

Identifying the Applications for migration best fit to take advantage of cloud
Cloud Migration Approach

**Identify Application**
Importantly to identify applications for migration

**Phase Approach**
- Plan
- Deploy
- Optimize

**Large IT Assets**
Enterprises typically have a large number of IT Assets

**Plan**
- Cloud Assessment
- Proof of Concept

**Deploy**
- Data
- Application

**Optimize**
- Leverage Cloud Architecture
- Optimize Cloud Setup
Plan Phase – Cloud Assessment

Cloud Assessment
- Financial Assessment
- Security & Compliance Assessment
- Technical & Functional Assessment
- Application Mapping in terms of dependency tree and cloud suitability
- Identifying Cloud Vendor
- Migrating Product Licences
- Definition of Success Criteria Plan with Roadmap

SaaS or PaaS or IaaS?
- Service Level Agreement
- Data Portability
- Long Term Costs
- User Management
- Security
- Scalability Platform Management

Private or Public Cloud
- WAN traffic
- Data security And Management
- Legacy Application
- Integration
- Security Compliance
Deploy Phase – Data Migration

**Application Data Migration**
- Migrate Fileserver systems
- Automated scripts for migration
- Backups and Tape Drives
- Evaluate options to move large sets of data to the Cloud e.g. AWS
- Import/Export

**Data Migration**
- Profile the various storage options available in your vendor Cloud
- Plan for uploading data in batches
- Analyze your datasets and databases
- Evaluate various RDBMS options in the cloud e.g. Amazon RDS
- Ensure data encryption for security
Deploy Phase – Application Migration

**Forklift Migration**
- Forklift is an approach where all the components are migrants to the cloud at the same time.
- Forklift is useful for stateless applications.
- Tightly coupled applications.
- Self contained applications e.g. self contained web applications, backup and archival systems, low latency web applications.

**Hybrid Migration**
- Hybrid migration is partial.
- Migration approach e.g. batch processing in cloud, application on premise integrate Cloud application with cloud incompatible legacy applications.
Optimize Phase – Optimize Cloud Setup

Leverage Cloud Architecture
- Auto terminate under-utilized instances through AWS Auto Scale option
- Application packaging for AMI construction.
- Improve efficiency of data access (e.g. caching layer through AWS Elastic Cache)

Optimize Cloud Setup
- Application Re-engineering
- Ability to restart on failure
- Separation of tiered components
- Extract stateful components and make them stateless
- Decompose relational database
Migration Use Cases & Scenarios

**Web Application Migration**
- Migration of ecommerce website with Mobile extension for creating property inventory reports of commercial and non-commercial properties with a motive of elasticity and scalability.
- AWS services recommended EC2, S3, EBS, AS, ELB, CW, RDS.

**Batch Processing App Migration**
- Log analysis and report generations with a motive of faster time to process.
- AWS services recommended EC2, EBS, S3, SQS, EMR, SNS

**Backend Process Workflow App Migration**
- Migration of Employee Performance Management System with a motive to lower the total cost of ownership, resilient solution and high availability
- AWS services recommend EC2, S3, EBS, AS, ELB, CW, RDS.
Migration Use Cases & Scenarios

Already On Cloud

- 72% Storage
- 74% Web Service
- 77% Email

What Is Moving To Cloud

- 33% Storage
- 26% ERP
- 21% Email
- 20% Collaboration
Thank You

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