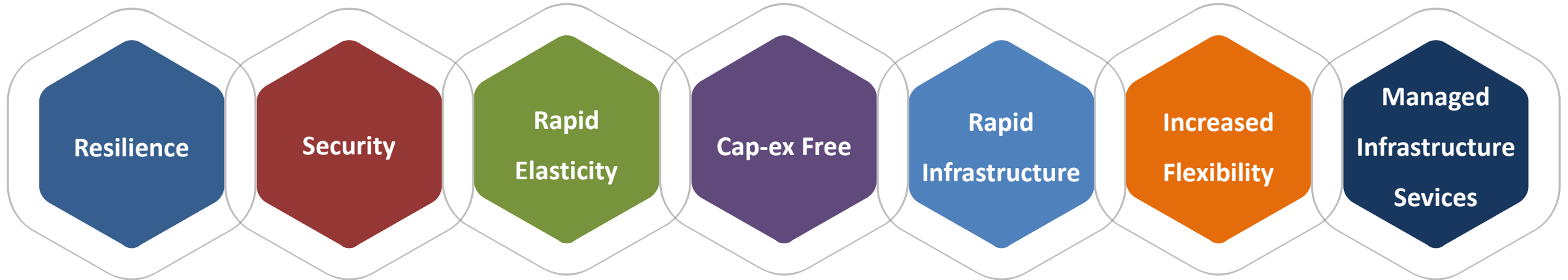




Migration To Cloud

Why Cloud

Advantages of Cloud



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.

**5% Organization Moved
50% Apps to Cloud**

30%

Moved to based cloud on customer following requirement

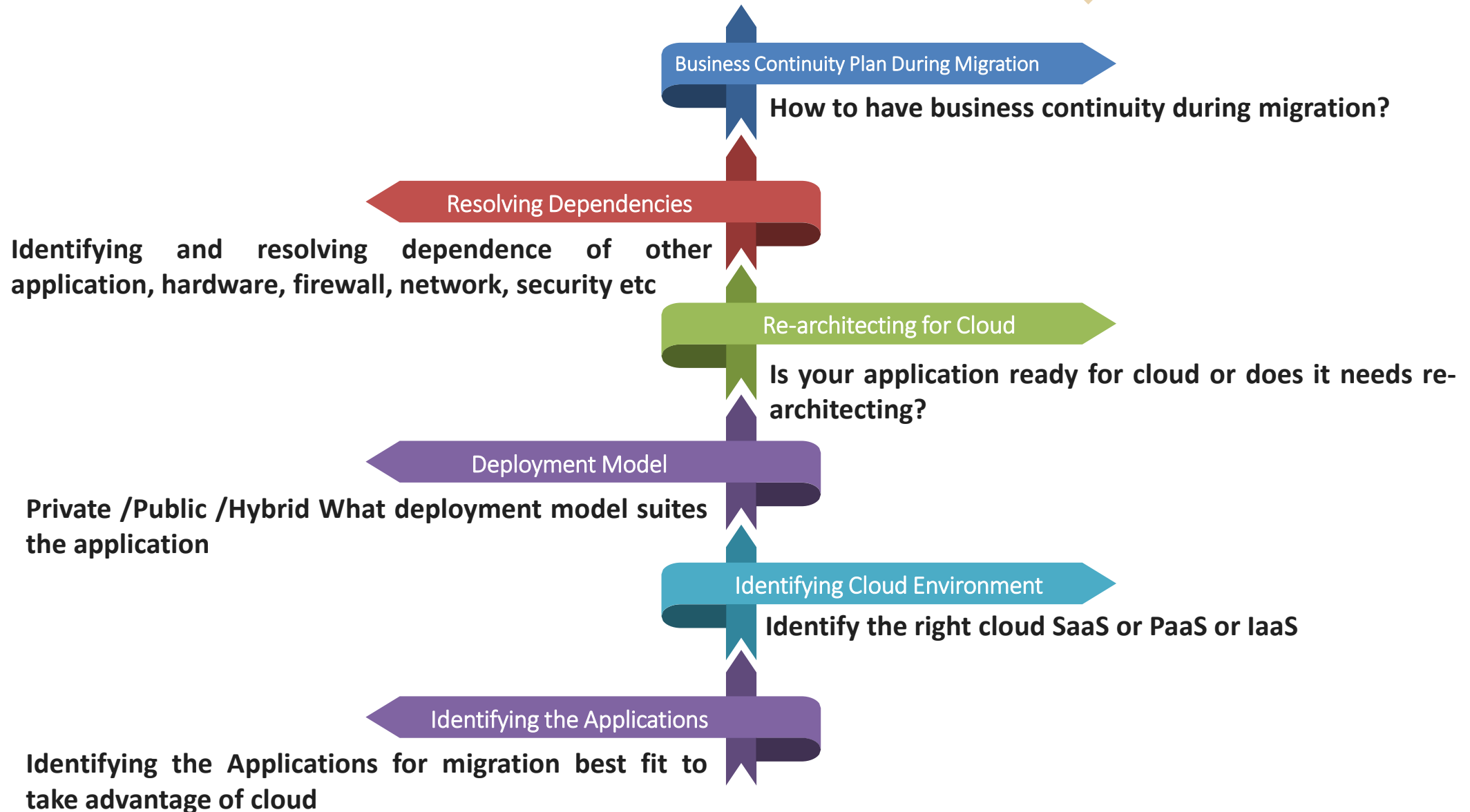
41%

Moved to cloud industry trend

52%

Moved to cloud to improve costs, productivity, agility

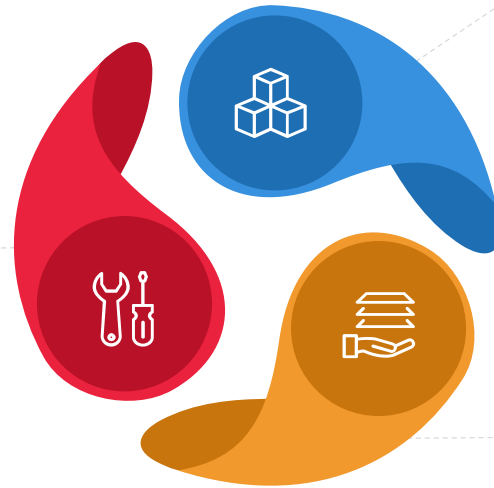
Challenges



Cloud Migration Approach

Large IT Assets

Enterprises typically have a large number of IT Assets



Identify Application

Importantly to identify applications for migration

Phase Approach

Plan
Deploy
Optimize

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 component 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

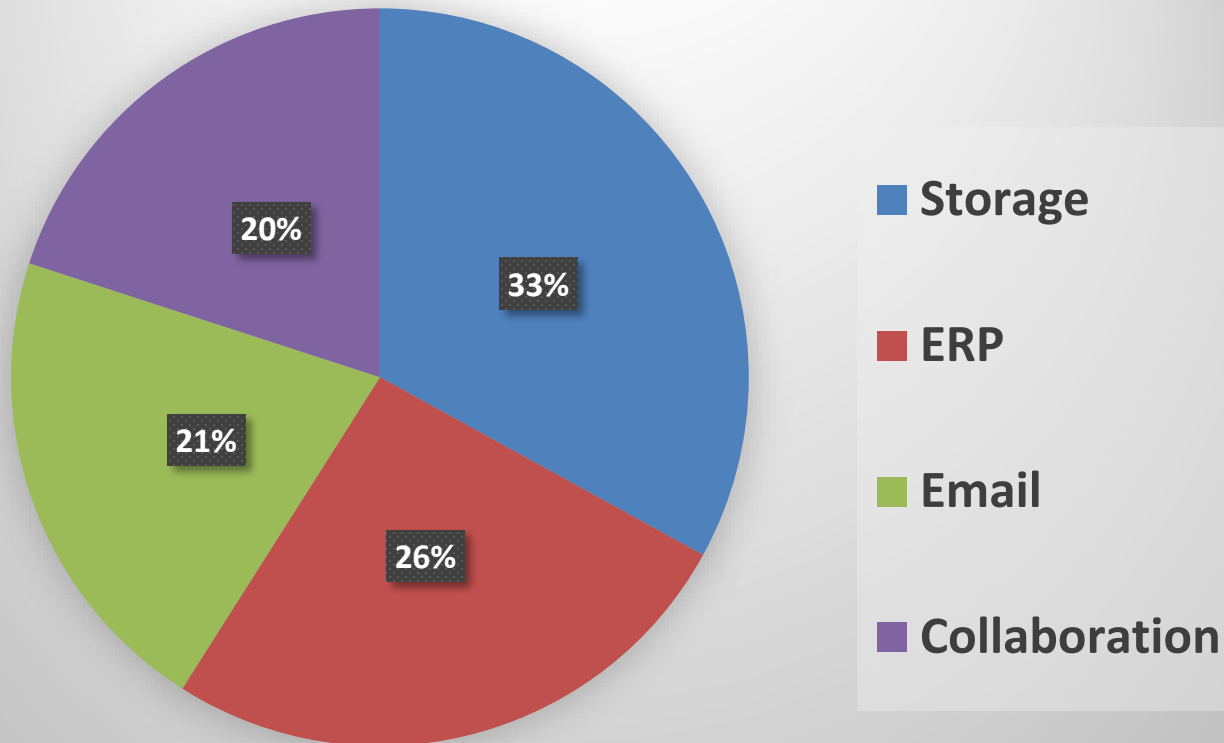


Backend Process Workflow App Migration

- 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

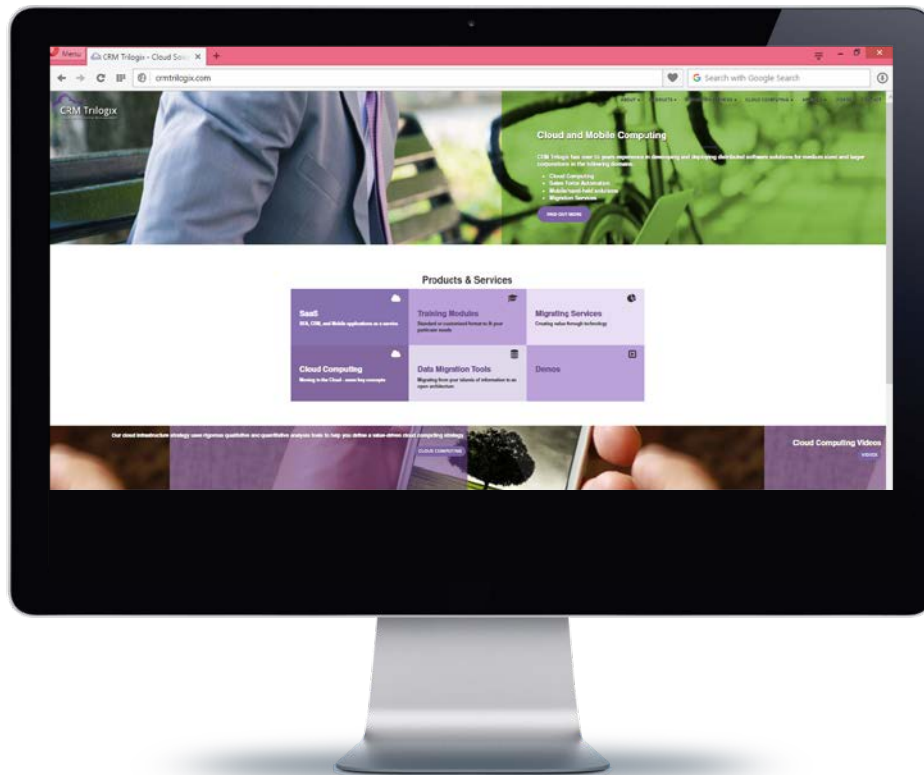
What Is Moving To Cloud



Already On Cloud

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

Thank You



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