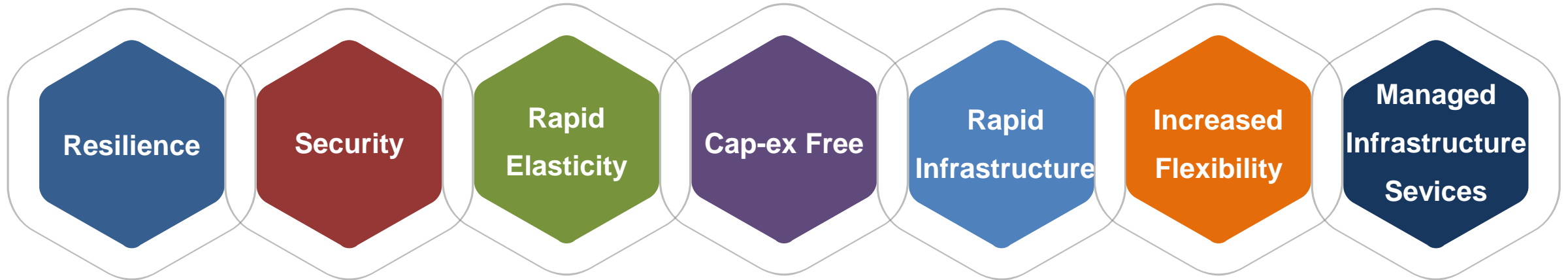




Migration To the Cloud Using AWS

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% of Organizations have moved
50% of their Apps to Cloud

30%

Moved to the cloud based on customer requirements

41%

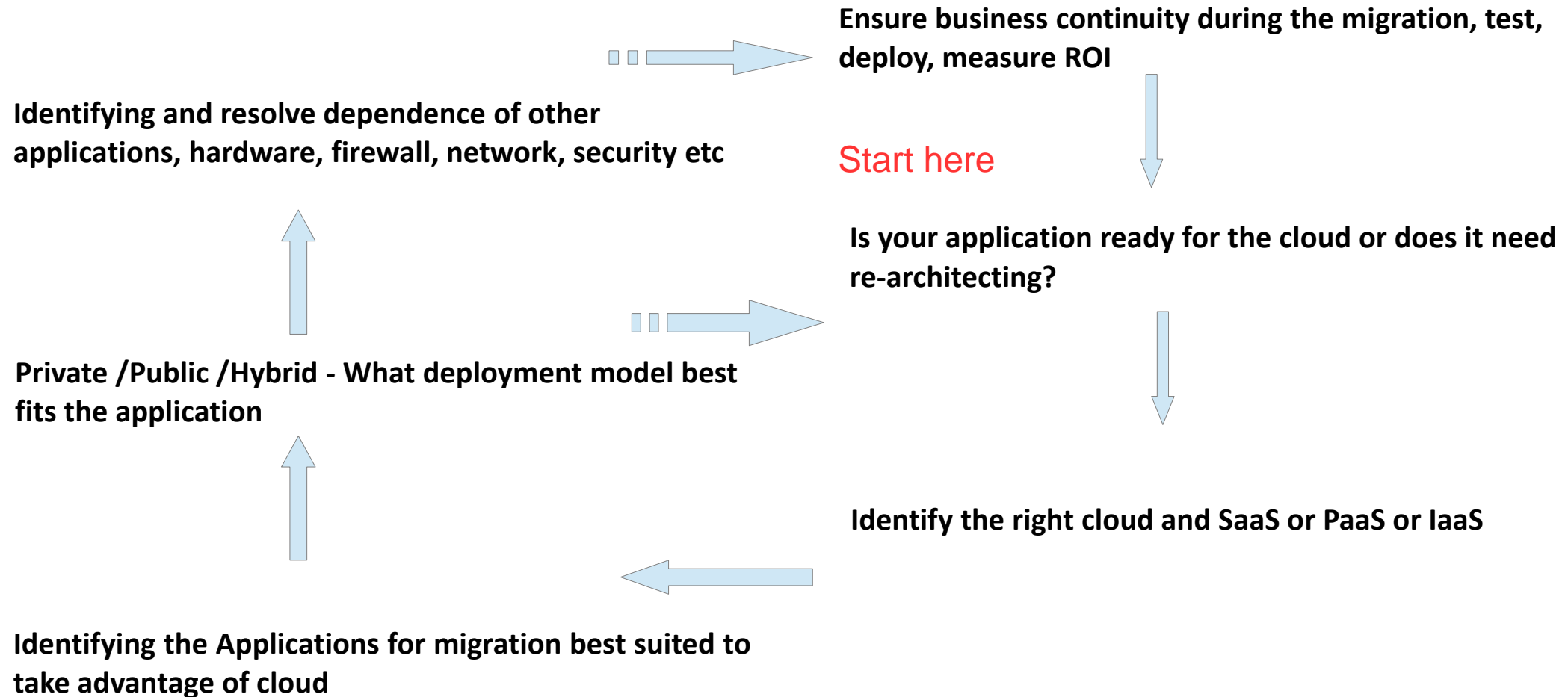
Moved due to industry pressures

52%

Moved to the cloud to improve costs, productivity, agility

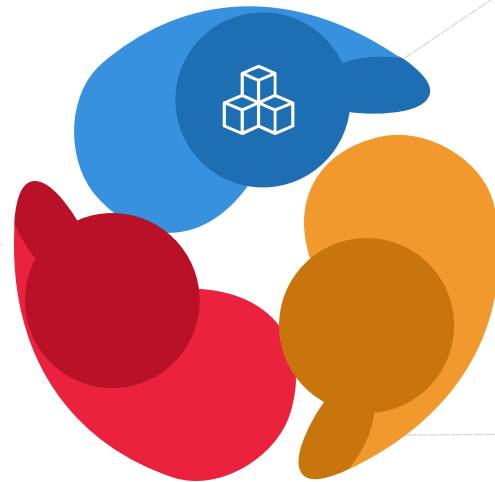
Based on Market surveys 2016

Challenges - interrelated



Cloud Migration Approach

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



Data for the Cloud

Identify the right 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, and 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

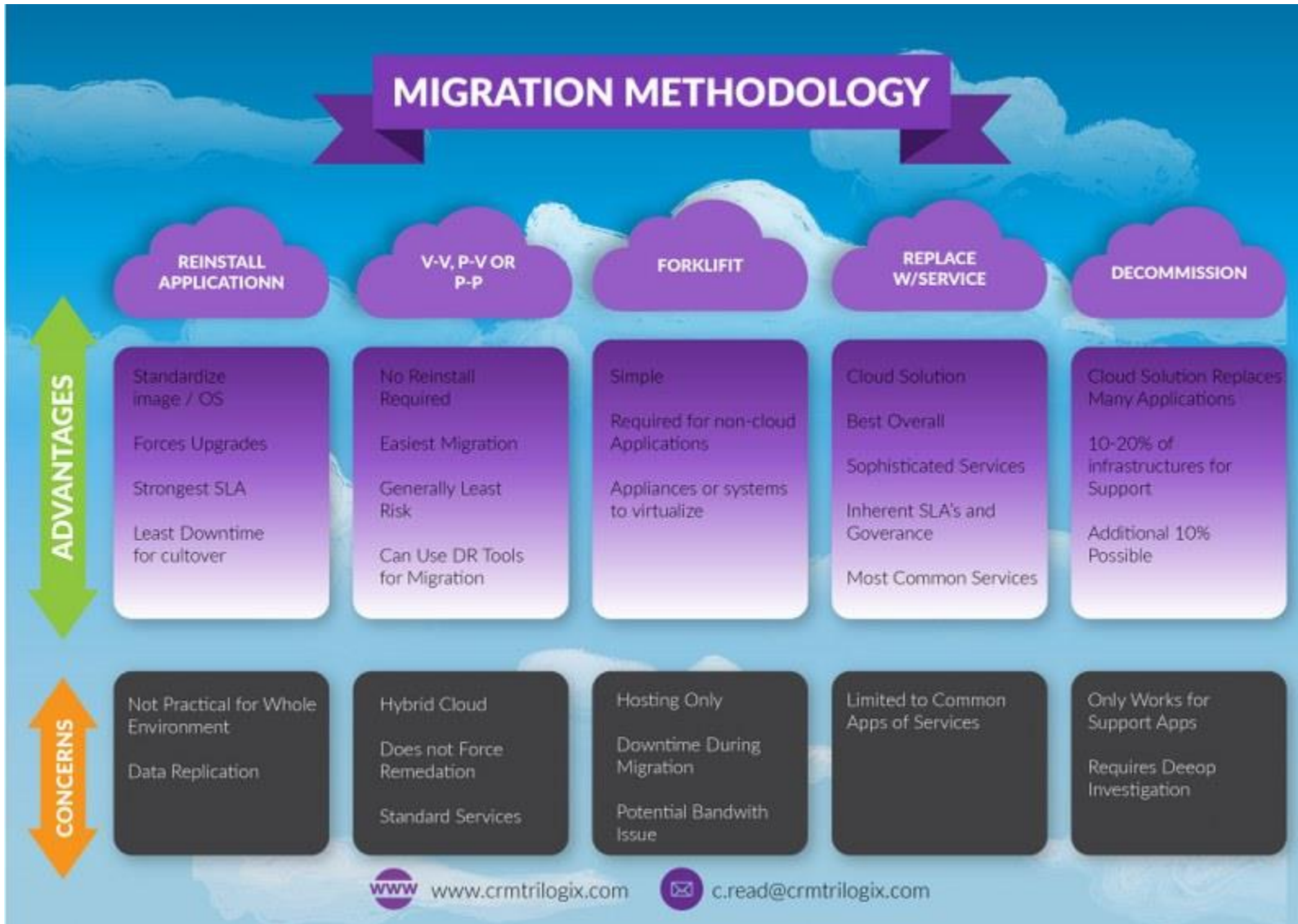
- Log analysis and report generations with a motive of faster time to process.
- AWS services recommended EC2, EBS, S3, SQS, EMR, SNS



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



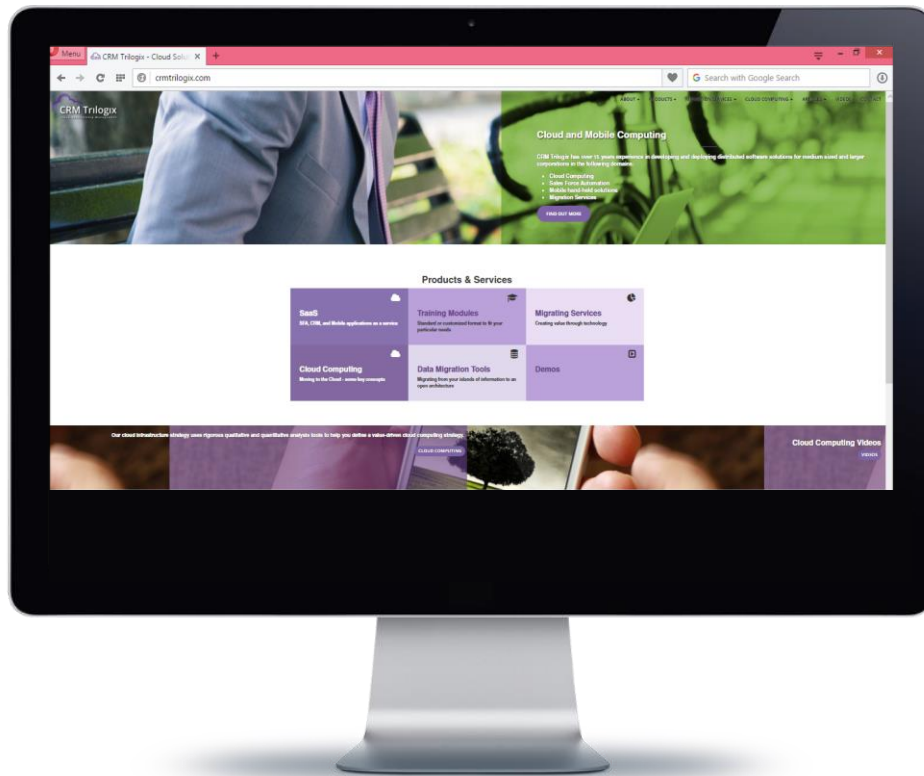
Already On Cloud

• **72% Storage**

• **74% Web Service**

• **77% Email**

Thank You



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