A Step by Step Process for a Successful Cloud Migration

A solid cloud strategy is key to scale business capacities to stay inline with the digitalization objectives. This is when businesses start to migrate from on-premise systems to cloud technology. Cloud strategy is driven by business vision, goals, and interests, this is why no two business will have the same migration process. **To conduct a successful cloud migration efficiently and effectively, we present a step-by-step process.**

Consider Security Challenges in Cloud Migration

Cloud technology provides full stack security to applications and services. Though cloud migration benefits are exciting, prior to the migration process, it's important to be aware of the cloud migration challenges. Failing to consider migration challenges can result in serious issues.

Cloud migration checklist to keep in mind before migrating to the cloud:

- Data blocks may be lost or erased, ensure data sensitivity.
- Databases are usually encrypted, so consider encryption and decryption aspects. If you don't handle data properly it can ruin it.

identify insufficiencies in the systems framework.

- Employ automated test framework that has a full stack security testing measures to explore any vulnerabilities after the migration.
- Performing cloud migration has several security challenges to consider. So, to ensure all security measures are met, prepare a security audit roadmap to ensure migration teams adhere to security policies throughout the migration process.

Step-by-Step Cloud Migration Process

To prepare organizations for a successful cloud migration, here is an industry proven best-in-class cloud migration process:

1. Define business purpose for migration
2. Evaluate your migration costs and needs
3. Assess the environment and applications
4. Choose cloud environment (single or multi-cloud)
5. Determine deployment model (IaaS, PaaS & SaaS)
6. Choose a strong cloud partner
7. Choose the right architecture
8. Prioritize migration components
9. Establish performance baselines
10. Create a robust data-migration plan
11. Migrate applications
12. Review applications, databases and required components
13. Transfer domain and IP's to application
14. Test applications, databases and required components
15. Conduct security testing to ensure no vulnerabilities exist

AWS Cloud Migration Process

To mobilize enterprises with the best cloud strategy solutions, AWS is offering full stack cloud computing solutions in the form of AWS Cloud Adoption Framework. Many businesses are actively migrating to the AWS cloud. To conduct an AWS cloud migration, follow the above mentioned steps as well as the steps mentioned below.

Figure: AWS Cloud Migration Process

AWS Migration Tools and Platforms

AWS provides effective tools at every stage of the migration process.

Discovery and Migration Tracking	AWS Application Discovery Service
	TSO Logic
Server & Database Migration	AWS Server Migration Service
	AWS Database Migration Service
	VMware Cloud on AWS
	CloudEndure Migration
Data Migration	Amazon S3 Transfer Acceleration
	AWS Snowball
	AWS Snowmobile
	AWS Direct Connect
	Amazon Kinesis Firehose

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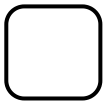

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