CLOUD MIGRATION STRATEGY

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This manual offers a methodical way to developing a cloud migration plan that will facilitate a seamless transition to the cloud with the least amount of interference with your company's daily operations:

STEP 1	STEP 2	STEP 3	STEP 4
CLOUD READINESS ASSESSMENT	CLOUD MIGRATION PLAN	FRAMEWORK TO EXECUTE PLAN	STRATEGY TO OPERATE AND OPTIMIZE CLOUD ENVIRONMENT
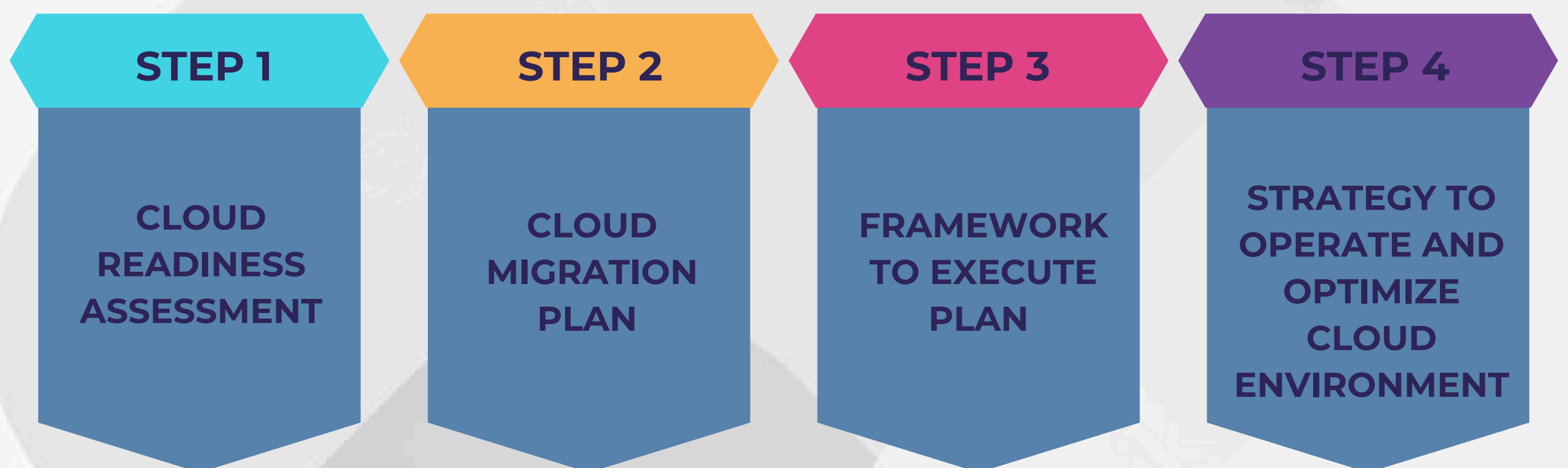
It also discusses important aspects to take into account while optimizing current cloud settings to lower expenses, boost efficiency, and pay off technical debt.

1 CLOUD READINESS ASSESSMENT

Examine your current environment, data, security and regulatory issues, on-premises and cloud infrastructure, apps, and dependencies before making the switch to the cloud.

A cloud readiness assessment should consist of the following steps:

Information collection one-on-one: Work together with key business and IT stakeholders to create a common understanding of the goals and ramifications of a cloud migration project.

Determine objectives and opportunities: Write down the goals you have for the cloud migration. To assist in prioritizing the goals with the highest possible business benefit, compute the ROI.

Assess cultural preparedness by making sure important stakeholders are aware of what to anticipate, including the timeframe, the impact the migration will have on their work processes, and the type of support and training that will be needed.

Choose what will be migrated: Choose which apps, procedures, and infrastructure will be moved to the cloud in order to guarantee the effective transfer of important workloads and prevent problems with licensing, networking, and data volumes.

Calculate current TCO: Consider the total cost, including physical data center property, cooling, electricity, physical security, disaster recovery, hardware and licensing, and data center staff.

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CLOUD MIGRATION PLAN

Where you're coming from, where you're going, and who will help you along the route should all be made clear in the cloud migration plan. Add the following components:

➤ **Information collection one-on-one:** Work together with key business and IT stakeholders to create a common understanding of the goals and ramifications of a cloud migration project.

➤ **Workload Assessment and Prioritization:** Choose a technique for data ingestion and decide what can be moved. Think about your authentication system and other integrations or integrated analytics.

➤ **Selecting a Platform:** Choose between SaaS for simplicity, PaaS for management, and IaaS for adaptability. Using all three approaches in a comprehensive cloud-based modern data architecture is not unusual.

➤ **Macro Execution Plan:** Consider your strategy: a hybrid approach deploys architecture to the cloud in stages, a big bang is quick but riskier, and a phased approach is slower but safer.

➤ **Micro Execution Plan:** Think about the 6R cloud migration approach (Rehost, Re-platform, Replace, Re-architect, Retire, and Retain) and choose which tools or workloads to retire and keep.

➤ **Foundational Architecture:** Prior to a cloud migration, systems, procedures, and infrastructure must be established. Networking, identity and access management, security, data protection framework, and automation are among the most important factors.
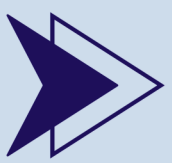
FRAMEWORK TO EXECUTE PLAN

To carry out your cloud migration strategy, you'll need a framework. Think about these recommended practices:

➤ **Create the fundamental framework:** Configure the cloud provider, networking, security, tagging, cost control, identity access management, and automation.

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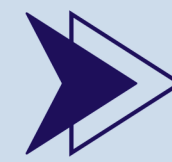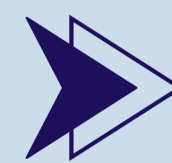
➤ **Applications that migrate:** Check scheduled jobs, configuration, and connectivity.

➤ **Verify and record:** Check for dependability and correctness, and record the procedure.
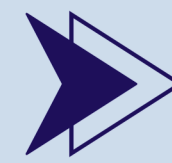
➤ **Optimize and adjust:** Make little changes to adapt to the cloud.

➤ **Cutover:** A staged migration that takes place more than once.

STRATEGY TO OPERATE AND OPTIMIZE YOUR CLOUD ENVIRONMENT

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You need a plan to manage and maximize your cloud environment after you've made the move. Think about these recommended practices:

> **Cost optimization:** Reserved/spot capacity can cut infrastructure costs by 20–50%, while rightsizing allows for flexible development without multi-year plans.

> **Process Automation:** Use autoscaling to control seasonal demand and reduce resource shutdowns by up to 70%, automate patching, and test backups and disaster recovery.

> **Boost Operational Efficiency:** Stay abreast of new platform features, improve data transfer, and maintain a close eye on hardware.

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Talk to an expert about your Cloud Migration Strategy

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