

The Gartner logo is displayed in white text on a blue background. The background features a grid pattern and various circular elements, including solid blue circles, white dashed circles, and white concentric circles.

IT Roadmap for Cloud Migration

Excerpt

How do successful organizations approach cloud migration to increase agility and optimize efficiency?

To help maximize the benefits of the multicloud strategy, cloud migration decisions can be tied to higher-level business goals. Migrating large amounts of workload from an on-premises data center to the public cloud requires careful planning, and many IT leaders don't know where to begin.

Based on our expert research and interactions with hundreds of companies in a wide range of industries, we've compiled smarter cloud migration best practices into a customizable roadmap. Your organization can use this roadmap to understand the key stages, resources, and people required to plan and execute an effective cloud migration initiative.

Some of the top questions about a cloud migration initiative are:

- 1** What is the smartest approach to cloud migration?
- 2** Which leaders and teams need to be involved?
- 3** How does the migration impact the business?

What are the key stages?

This best-practice insight is distilled from interactions with clients who have successfully implemented cloud migration initiatives. The map shows the sequence of objectives and desired outcomes and is useful for aligning all stakeholders.

A few key milestones and a sample of associated Gartner resources are highlighted below, but the full roadmap includes complete details of all milestones and resources for each stage.



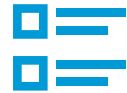
Align objectives

Develop plan of action

Prepare for execution

Establish governance and mitigate risk

Optimize and scale



Align objectives

Create a cloud migration value proposition (for both business and IT)

Selected tasks include:

- Build understanding around different use cases for cloud adoption
- Define formal cloud strategy aligned to IT strategic goals
- Define action steps to achieve goals, keeping in mind cloud financial management
- Craft decision principles for migration informed by application and team readiness, business priorities, application modernization strategy and vendor capabilities
- Understand data and metrics for usage and capabilities

+ more

Sample of associated Gartner resources include:

- Analyst inquiry: Engage with an analyst to discuss the key points around cloud implementation in the organization.
- Gartner IT Score for CIOs
- Research: Top Five Approaches to Hybrid Cloud Storage — An Analysis of Use Cases, Benefits and Limitations
- Consultation by phone: Consult on building the business case for cloud strategy. Focus on articulating business benefits that are aligned with business goals.

+ more

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Develop plan of action

Select the right vendors and successfully negotiate contracts

Selected tasks include:

- Develop cloud competencies across enterprise
- Assess different service providers (AWS, Google, Microsoft, etc.)
- Build protections against cloud-specific risks
- Identify viable investments in networking, security and identity architectures, and tools

+ more

Sample of associated Gartner resources include:

- Consultation by phone: Introduction to the Gartner BuySmart™ process and review of strategic, financial and technical requirements
- Research: CIOs Must Master Four Views of Spend to Manage IT Finances
- Research: Zero-Regret Purchases: Leading the Business to Make Smarter Buying Decisions
- Analyst inquiry: Discuss the right kind of funding needed to deliver on cloud migration in the organization.

+ more

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Prepare for execution

Deploy and optimize workload placement

Selected tasks include:

- ✓ Identify and segment workloads for migration
- ✓ Establish cloud management workflow
- ✓ Adopt best practices for implementation and practice workload placement analysis

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Sample of associated Gartner resources include:

- Consultation by phone: Review best-practice examples to strengthen cloud strategy.
- Research: 7 Elements for Creating a Pragmatic Enterprise Cloud Strategy
- On-site workshop: Read research around right steps for cloud migration
- Research: Ignition Guide to Building a Cloud Center of Excellence
- Analyst briefing: A cloud specialist will address a broad audience to educate and level-set, debunk myths, share trends and best practices, and kick-start the strategy

+ more

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Establish governance and mitigate risk

Minimize workflow disruptions and establish robust processes

Selected tasks include:

- Prioritize sensitive data discovery, monitoring and analytics
- Establish security control plane using third-party tools
- Develop life cycle approach to cloud governance
- Automate to embed governance adherence feedback directly into workflows

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Sample of associated Gartner resources include:

- Consultation by phone: Discuss current trends in I&O — from data centers toward moving workloads to colocation, hosting and the cloud
- Research: Sequence Cloud Migration the Smarter Way
- Symposium: Attend Gartner IT Symposium/Xpo®
- Analyst inquiry: Engage Gartner analysts for cloud technology selection and contract/pricing negotiations

+ more

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Optimize and scale

Evaluate and evolve cloud footprint

Selected tasks include:

- Prioritize investments to advance existing cloud strategies and implementation
- Create shared objectives for cross-functional teams that favor customer centricity
- Iterate to optimize and evolve cloud footprint

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Sample of associated Gartner resources include:

- Consultation by phone: Review progress and plan the next steps to realize benefits from the cloud
- Analyst inquiry: Discuss the key impact delivered post-implementation of the cloud migration strategy; communicate the impact to stakeholders
- Cloud Migration Impact Calculator
- Research: Revisiting the Top 10 Cloud Myths for 2020

+ more

Who needs to be involved?

The most successful companies establish cross-functional teams for cloud migration initiatives. We've outlined the recommended functions to involve and described their roles to ensure success in hitting the milestones.



Client success story: Cloud migration and technology innovation

The Information & eGovernment Authority wanted to migrate its data from the traditional on-premises architecture to a cloud architecture. In addition to this, they needed guidance in approaching key blockchain initiatives. By leveraging Gartner research and advisory services, our client was able to build its first cloud policy and choose the right technologies for blockchain.

Most critical priority

With the aim to execute digital transformation, our client wanted to build a secure cloud architecture to store its data and work on blockchain initiatives.



How Gartner helped

Gartner provided architecture designs and a strategy to move to the cloud, and shared benchmarking information to help our client build a secure cloud architecture.

Additionally, Gartner analysts, research, toolkits and Gartner Magic Quadrants were beneficial in evaluating specific technologies.



Mission accomplished

With Gartner for IT Leaders, Information & eGovernment Authority successfully:

- Developed its cloud infrastructure
- Built a standardized cloud policy for migration
- Improved decisions to choose the right technologies for blockchain initiatives