CLOUD ADOPTION FRAMEWORK

Cloud Adoption Framework :

A Cloud Adoption Framework (CAF) is a set of best practices, tools, and methodologies that guide an organization through the process of migrating to and operating in the cloud.

* The framework helps businesses align their cloud strategy with their overall business goals, mitigate risks, and optimize costs. Most major cloud providers offer their own version of a CAF.

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Cloud Adoption Framework – Tools and Templates :

Each major cloud provider offers a set of tools, templates, and assessments to support its specific Cloud Adoption Framework (CAF).

Microsoft Azure CAF tools and templates :

Microsoft provides tools and templates to support its CAF across different phases. These include assessments for the strategy phase like the Cloud Adoption Strategy Evaluator and Cloud Journey Tracker.

AWS CAF tools and templates :

AWS offers numerous tools aligned with its six CAF perspectives (Business, People, Governance, Platform, Security, and Operations).

Cloud Adoption Framework Phases :

1.strategy

The Strategy phase is the first and most critical stage of a Cloud Adoption Framework (CAF).

During this phase, an organization defines the business motivations and desired outcomes for adopting the cloud.

1. Define and document motivations .
2. Define and document business outcomes.
3. Build the business justification.
4. Assess technical considerations

2.Plan

The Plan phase of a Cloud Adoption Framework (CAF) is where the strategic vision is converted into a concrete, actionable roadmap for implementation.

1. Digital estate rationalization
2. Prioritize and define workloads
3. Organizational alignment and readiness
4. Develop migration roadmap
5. Estimate costs and resources

3.Ready

The Ready phase of a Cloud Adoption Framework (CAF) is a critical preparatory stage where an organization sets up the foundational environment to host its cloud workloads. It involves building a "landing zone”.

1. Establish the Azure landing zone
2. Automate deployments
3. Define operational procedures
4. Upskill the team

4.Govern

The Govern phase of a Cloud Adoption Framework (CAF) is a continuous, operational process that establishes policies, controls, and guardrails to manage and oversee the cloud environment.

1. Build a governance team
2. Assess cloud risks
3. Define governance policies
4. Enforce governance policies
5. Monitor and audit compliance

5.Migrate

The Migrate phase of a Cloud Adoption Framework (CAF) is the execution stage where workloads, applications, and data are physically moved from their source environment to the cloud.

1. Assess workloads
2. Execute migration based on the "6 R's"

1.Rehost

2.Replatform

3. Refactor/Rearchitect

4. Repurchase (drop and shop)

5. Retire

6. Retain

1. Perform data migration
2. Release and validate workloads

6.Innovate

The Innovate phase of a Cloud Adoption Framework (CAF) is not a one-time event but a continuous process integrated into the broader cloud adoption and management lifecycle.

1. Understand customer needs
2. Create and test minimum viable products
3. Leverage cloud-native capabilities
4. Foster a culture of experimentation and learning

7.Manage

The Manage phase of a Cloud Adoption Framework (CAF) is a continuous, operational process focused on ensuring the long-term health, performance, and reliability of the cloud environment.

1. Define business commitments
2. Establish a management baseline
3. Expand the management baseline
4. Assess advanced operations and design principles

8.Organize

The "Organize" methodology is part of the Microsoft Cloud Adoption Framework (CAF) and is essential for aligning people, roles, and teams to support cloud adoption and management effectively.

1. Define and align organizational structures
2. Establish a Cloud Center of Excellence (CCoE)
3. Manage organizational alignment
4. Upskill the workforce

9.Secure

The Secure methodology of the Cloud Adoption Framework (CAF) is a continuous, parallel process that integrates security practices throughout every phase of the cloud adoption journey.

1. Establish security governance and assurance
2. Implement identity and access management (IAM)
3. Protect infrastructure
4. Safeguard data
5. Integrate application security
6. Detect and respond to threats

Total Cost of Ownership (TCO) :

Total Cost of Ownership (TCO) is a financial estimate used to assess the complete, long-term cost of adopting and operating a technology, such as a cloud migration. It goes beyond a simple comparison of upfront costs and includes all direct and indirect expenses incurred over an asset's entire lifecycle.