

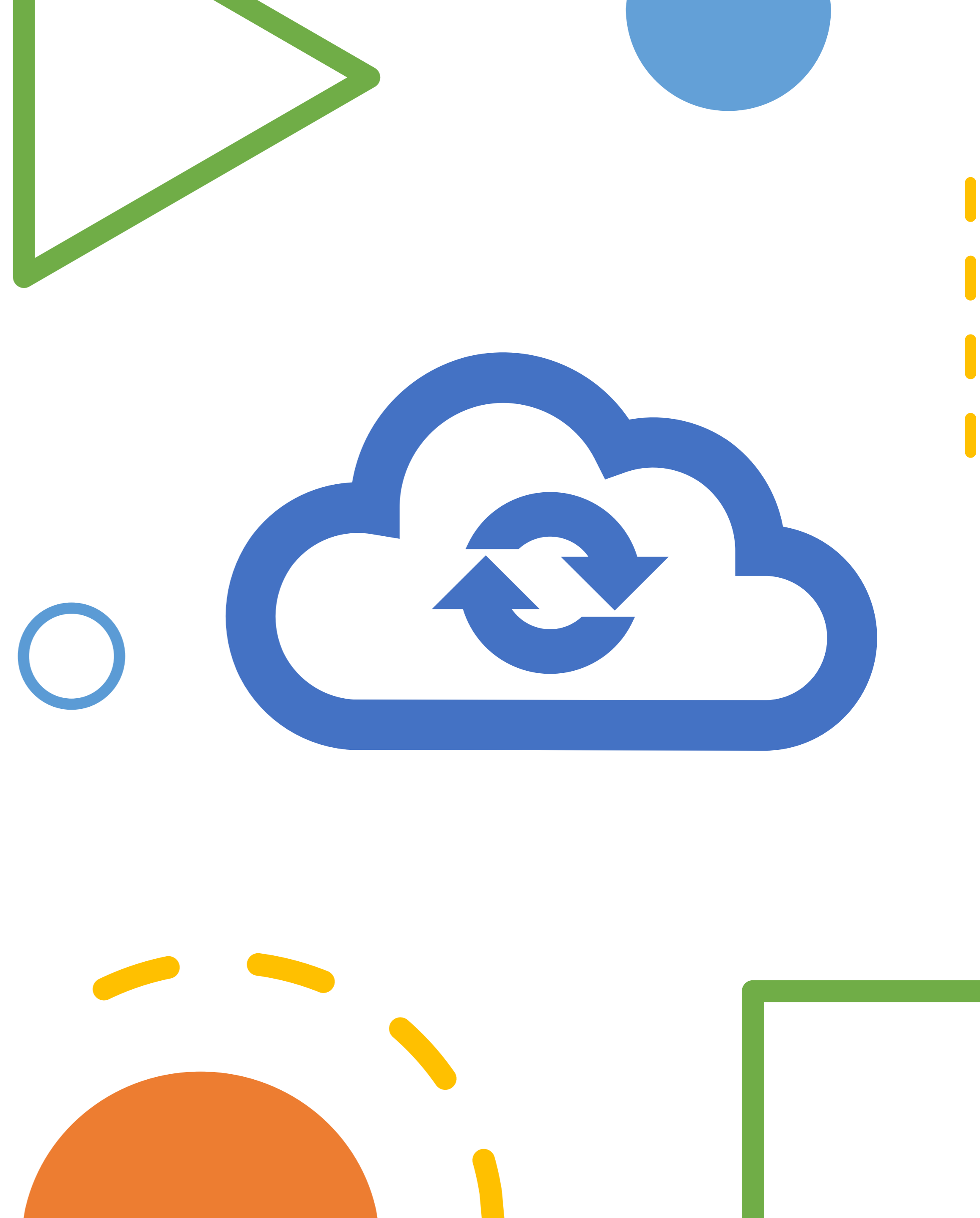


MOVING TO THE CLOUD

Adopting the cloud is a journey, not a destination.

Agenda

- What is your driving force behind moving to the cloud?
- What is the Cloud Adoption Framework?
- Clear definitions of each phase of the Cloud Adoption Framework
- Cloud readiness questions and answers



Why cloud?

What is the business case or compelling event that is driving your migration to the cloud?

- Data center lease expiry
- Additional developer productivity
- Global expansion
- Upcoming M&A activity
- The drive for standardized architectures
- Executive decision
- Security / Compliance
- Other



CLOUD ADOPTION FRAMEWORK

CLOUD READINESS



Q & A

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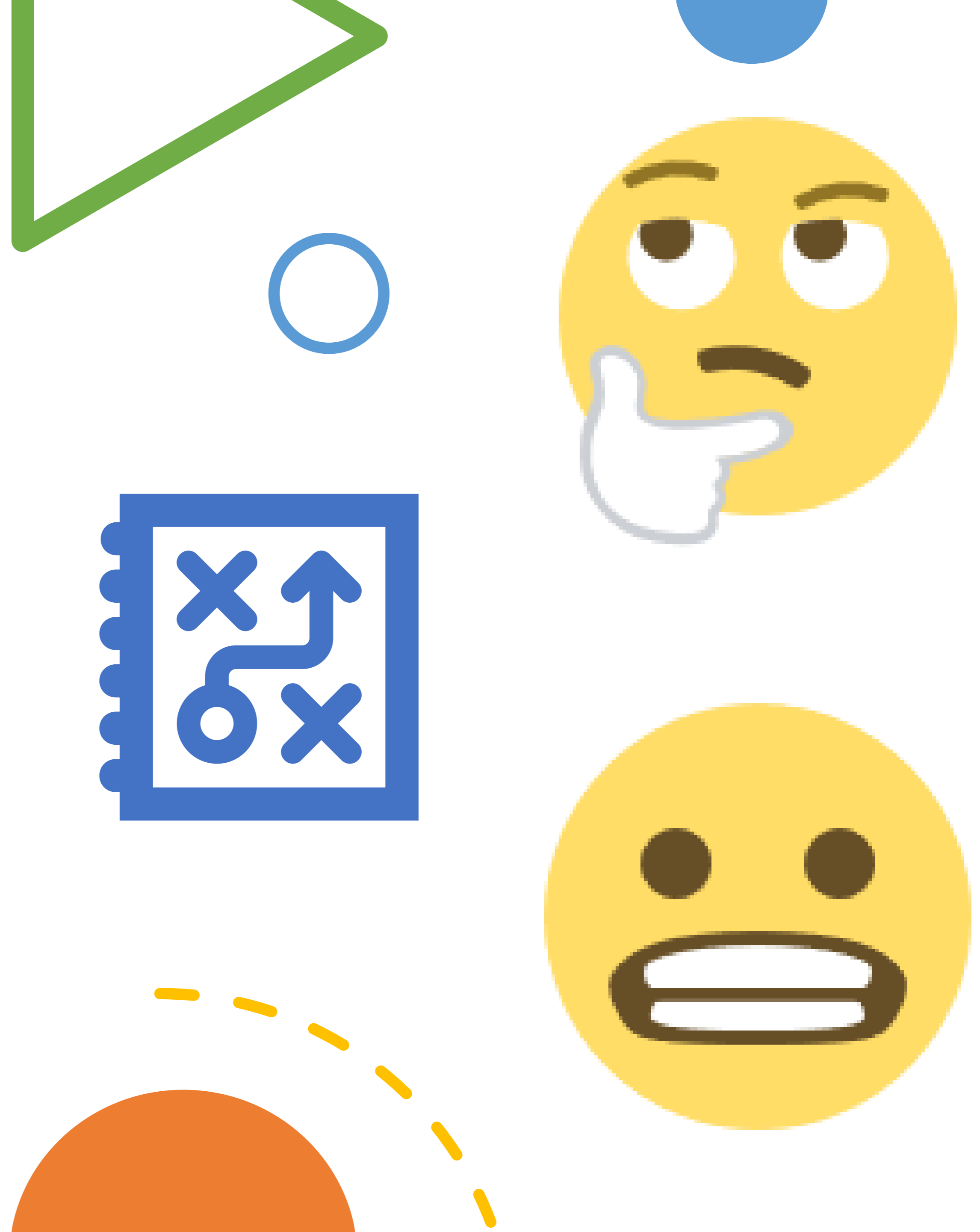


The background is a vibrant orange color. It features several abstract geometric elements: a large yellow circle in the upper left, a smaller yellow circle in the upper right, a yellow dashed vertical line on the far left, a yellow dashed curved line in the lower left, a yellow solid square outline on the left, and a yellow solid line forming a partial triangle at the top. A large white semi-circle is positioned on the right side of the page, containing the main text.

CLOUD ADOPTION FRAMEWORK

Why?

- This is a tested and proven approach to a successful migration to the cloud
- This is not a simple task
- Most customers struggle to be successful at this



Cloud Adoption Framework (CAF)

To be successful in adopting the cloud, a customer must prepare its people, technologies, and processes for this digital transformation.

The CAF guides the customer through the cloud lifecycle journey.

The CAF is **complex**, this is a distilled version and with the steps organized in a different manner.



CAF Phases



(1) Strategy: Define business and expected outcomes (why cloud?)

(2) Plan: When technical implementation is aligned with clear business objectives, it's much easier to measure and align success across multiple cloud implementation efforts, regardless of technical decisions.

(3) Ready: Preparing the business, culture, people, and environment for coming changes leads to success in each effort and accelerates implementation and change projects.

CAF Phases



(4) Adopt: Ensure proper implementation of desired changes, across IT and business processes, to achieve business outcomes.

- **Migrate:** Iterative execution of the cloud implementation methodology adhering to the tested process of Assess, Migrate, Optimize, and Secure & Manage to create a repeatable process for migrating workloads.
- **Innovate:** Drive business value through innovation activities that unlock new technical skills and expanded business capabilities.

(5) Govern: Align corporate policy to tangible risks, mitigated through policy, process, and cloud-based governance tooling.

(6) Manage: Expand IT operations to ensure cloud-based solutions can be operated through secure, cost effective processes using modern, cloud-first operations tools.

(7) Organize: Align people and teams to deliver proper cloud operations and adoption.

Cloud Adoption Framework Phases

Strategy: Developing a cloud adoption strategy

The components of this phase will help you document your business strategy efficiently.

- Meet with key stakeholders and executives to document motivations behind the cloud adoption.
- Document specific business outcomes.
- Develop a business case that supports your motivations and outcomes.
- Choosing the right first project for the cloud



Cloud Adoption Framework Phases

Plan: Align business outcomes to actionable technology backlogs.

This phase consists of three areas of early stage planning activities:

- Define the business justification and business outcomes.
- Prioritize workloads based on impacts to the business outcomes.
- Create a cloud adoption plan based on the current digital estate and prioritized workloads.



Cloud Adoption Framework Phases

Ready: Prepare the people, culture, and environment for change.

This phase has three key components:

- Create a cloud strategy team and other organizational alignment.
- Create a skills readiness plan across roles and functions.
- Establish a foundation by preparing the cloud environment.



Cloud Adoption Framework Phases

Adopt: Implement the desired changes across IT and business processes to help customers realize their business, technology, and people strategies.

This phase includes several areas that will vary depending on what the organization is implementing:

- Migration of workloads and assets.
- Apps and data modernization.
- Cloud governance.
- Management and operation of assets and workloads in the cloud.

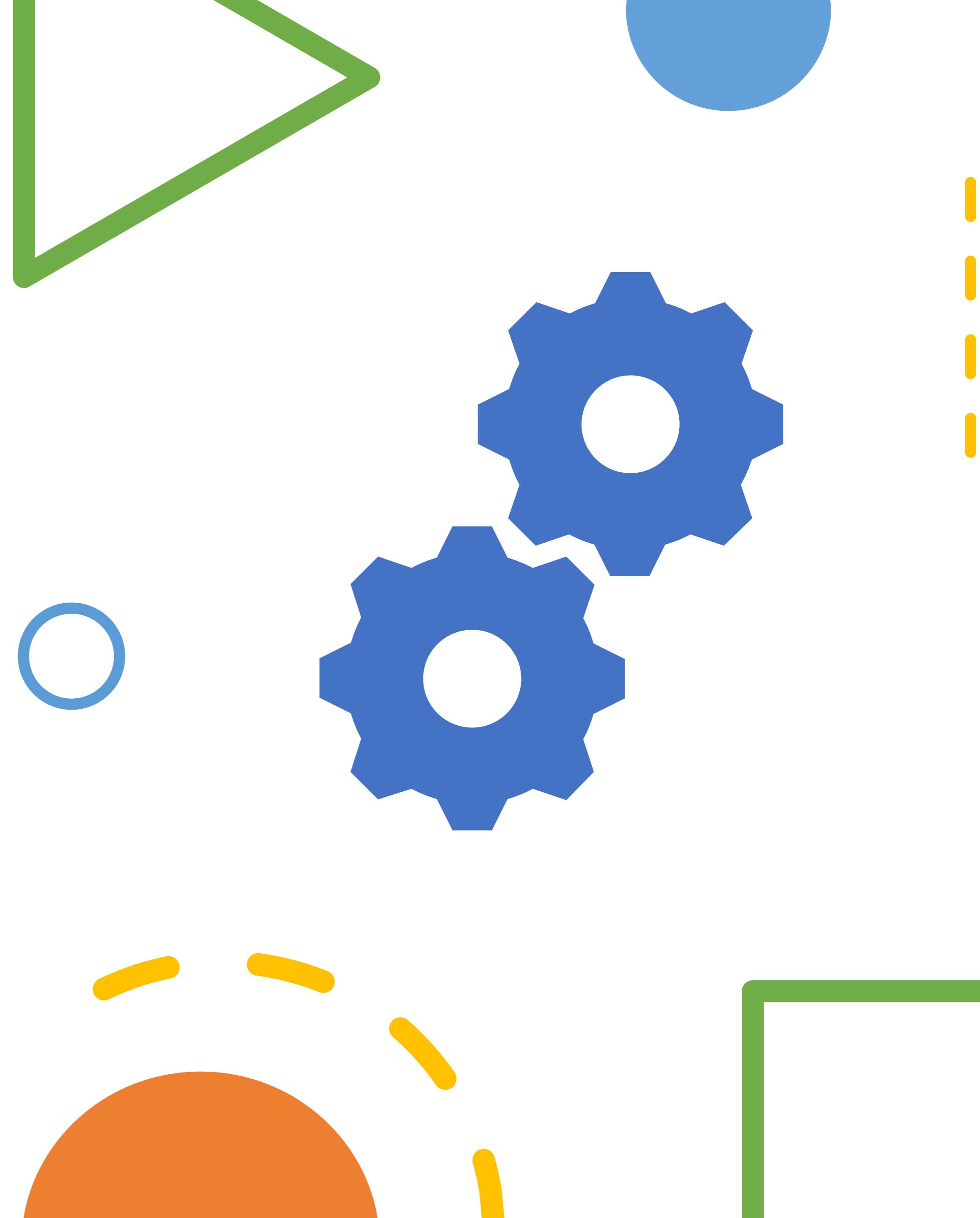


Cloud Adoption Framework Phases

Govern: Cloud governance is an iterative process. For organizations with existing policies that govern on-premises IT environments, cloud governance should complement those policies.

This phase includes four iterative components:

- **Methodology:** Establish a basic understanding of the methodology that drives cloud governance.
- **Benchmark:** Assess your current state and future state to establish a vision for applying the framework.
- **Initial governance foundation (MVP):** Begin your governance journey with a small, easily implemented set of governance tools.
- **Improve the initial governance foundation:** Throughout implementation of the cloud adoption plan, iteratively add governance controls to address tangible risks as you progress towards the end state.

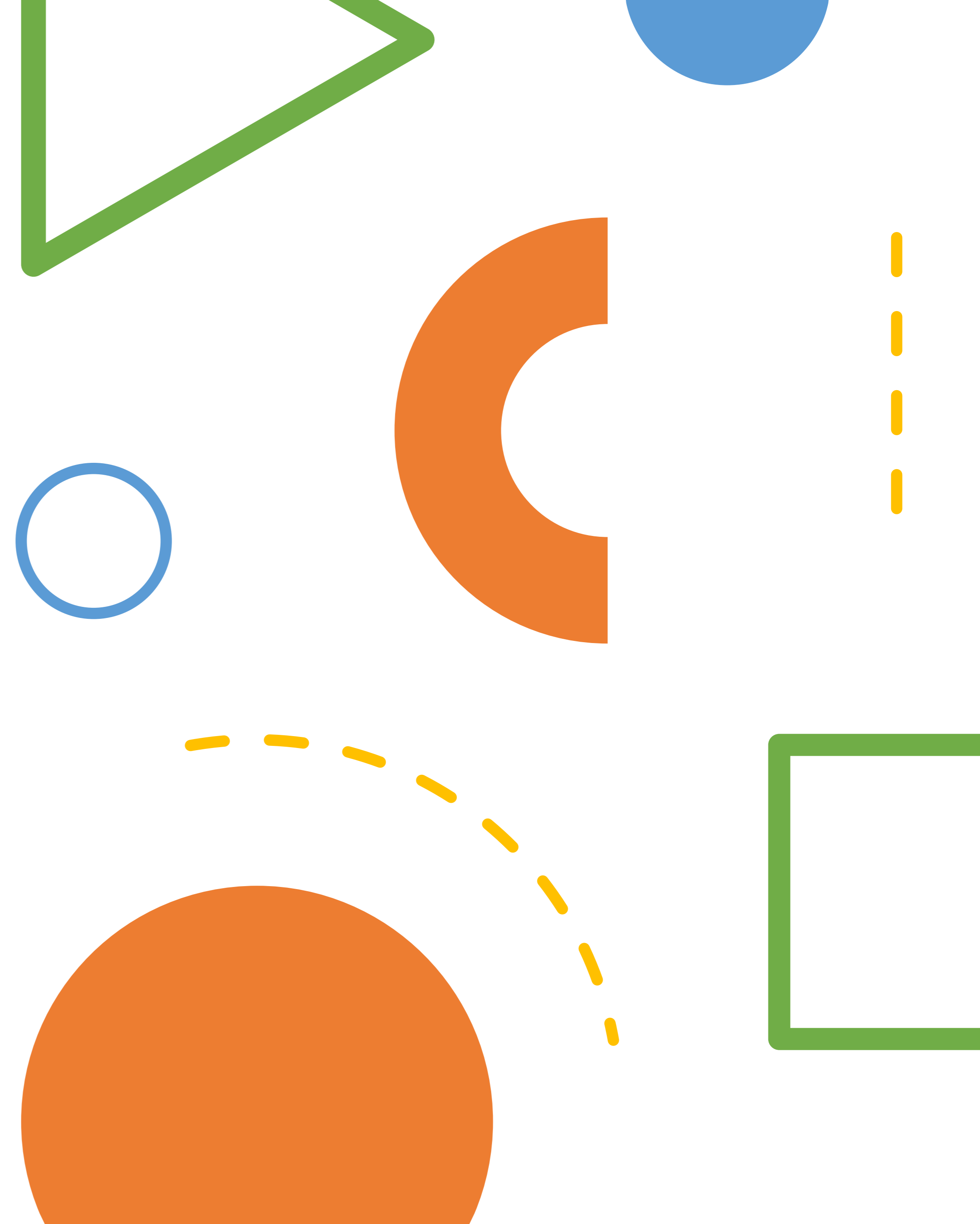


Cloud Adoption Framework Phases

Manage: Delivering on a cloud strategy requires solid planning, readiness, and adoption. But it's the ongoing operation of the digital assets that delivers tangible business outcomes.

This phase of the framework includes four key components:

- **Baseline:** Define the criticality classifications, cloud management tools, and processes required to delivery your minimum commitment to the operations management.
- **Define business commitments:** Document supported workloads to establish operational commitments with the business.
- **Expand the management baseline:** Based on business commitments and operations decisions, make use of the best practices to implement the required cloud management tooling.
- **Advanced operations and design principles:** Platforms or workloads that require a higher level of business commitment might require a deeper architecture review to deliver on resiliency and reliability commitments.



Cloud Adoption Framework Phases

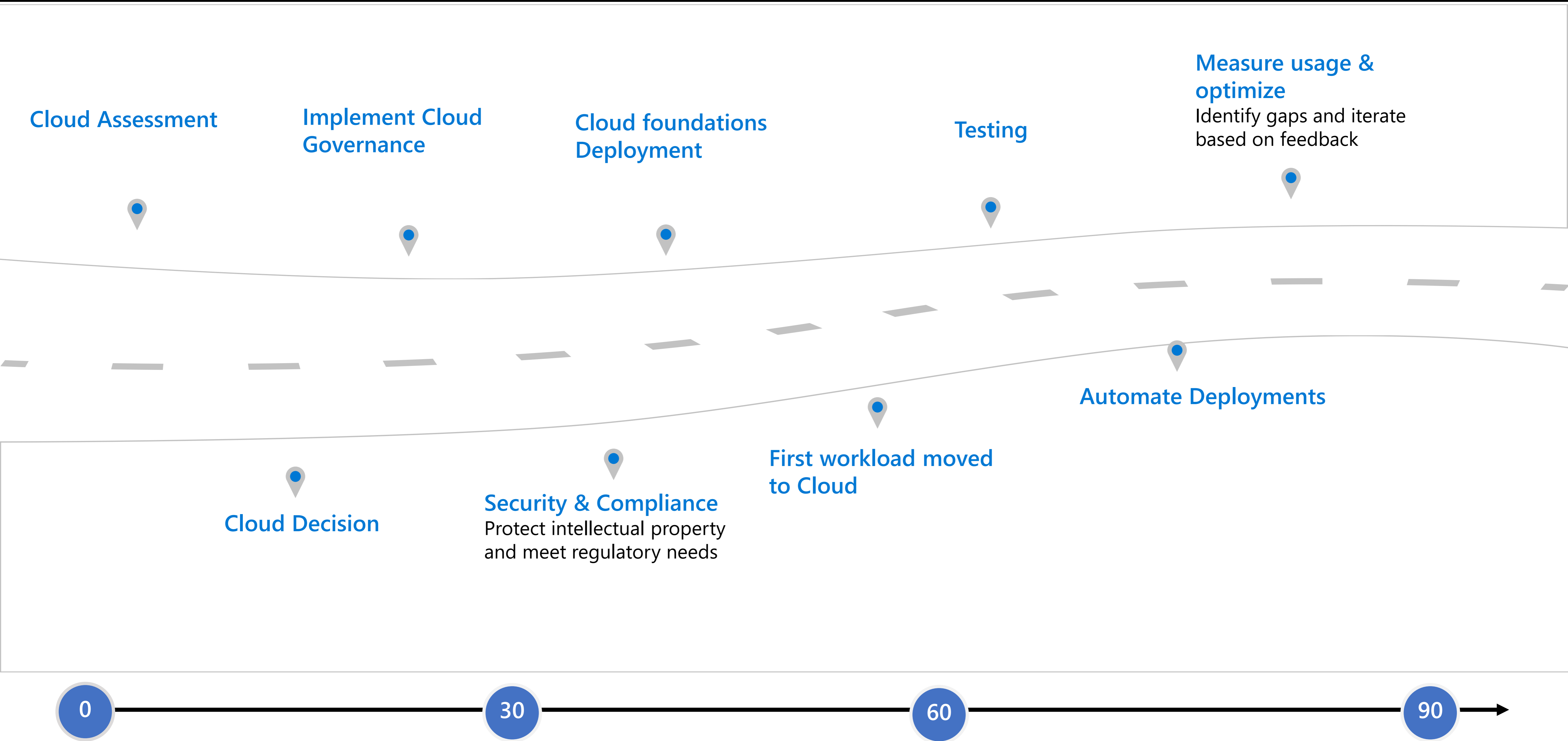
Organize: Cloud adoption can't happen without well-organized people. Successful cloud adoption is the result of properly skilled people doing the appropriate types of work, in alignment with clearly defined business goals, and in a well-managed environment. To deliver an effective cloud operating model, it's important to establish appropriately staffed organizational structures.

This phase consists of four exercises:

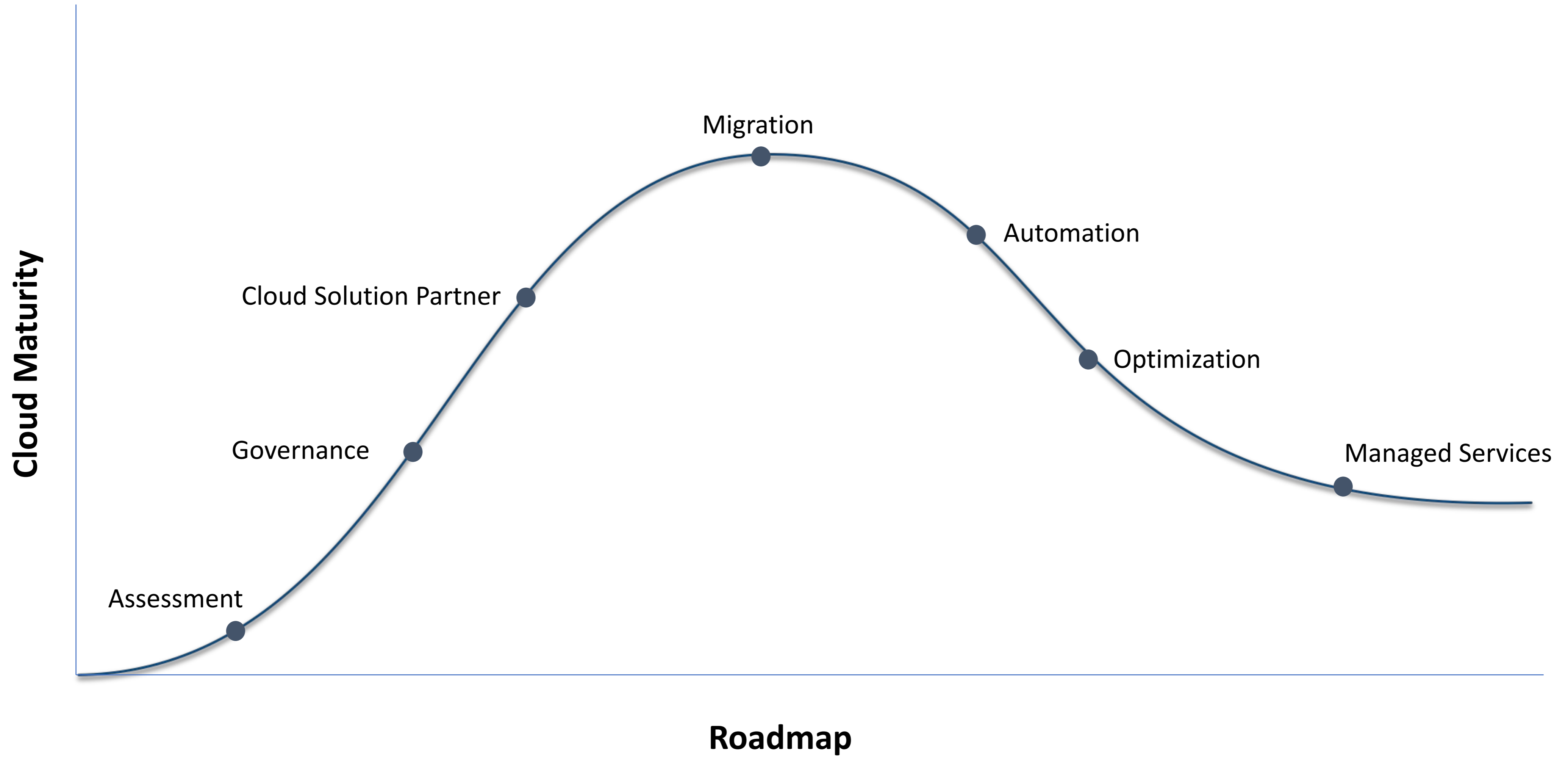
- **Structure Type:** Define the type of org structure that best fits your operating model.
- **Cloud Capabilities:** Understand the cloud capabilities required to adopt and operate the cloud.
- **Establish Teams:** Define the teams that will be providing various cloud capabilities.
- **RACI Matrix:** Clearly map Responsibility, Accountability, Consulted, and Informed roles to each of the teams for various functions of the cloud operating model.



Cloud Journey



CLOUD LIFECYCLE





CLOUD READINESS



BUSINESS RATIONALE

Has your company identified a specific business reason for moving to the cloud?

- 1 - No business reason has been identified to date
- 2 - We are currently in the process of evaluating business opportunities
- 3 - A business need has been identified and analysis has begun
- 4 - A draft analysis has been completed
- 5 - A formal business need and analysis has been completed and approved



BUSINESS CASE

Has your company developed a business case for moving to the cloud, and if so, is your business case based on multiple, credible and quality sources?

- 1 - Minimal data sources and no consensus
- 2 - Minimal data sources, but limited consensus among the team
- 3 - A few data sources, but limited consensus among the team
- 4 - A few data sources, and some consensus among the team
- 5 - Comprehensive and diverse data sources, and full team consensus



EXECUTIVE SPONSORSHIP

Has your organization assigned a manager or executive to be responsible for your cloud adoption efforts (single threaded leader). This person oversees a dedicated cloud team (Cloud Center of Excellence) with assigned roles, timelines and resources for adopting cloud services.

- 1 - We have not established a single threaded leader, nor created a Cloud Center of Excellence
- 2 - We are currently in the process of establishing a single threaded leader, but no Cloud Center of Excellence has been implemented
- 3 - We have assigned a single threaded Leader, but no Cloud Center of Excellence has been implemented
- 4 - We have a single threaded leader and assigned some components of the Cloud Center of Excellence
- 5 - We have a single threaded leader and all formal components of the Cloud Center of Excellence are in place



COLLABORATION

Does the IT organization engage regularly with their stakeholders to address service and governance issues?

- 1 - Does not engage with stakeholders at all
- 2 - Rarely engages with stakeholders
- 3 - Occasionally engages with stakeholders
- 4 - Frequently engages with stakeholders
- 5 - Has regular and formal engagements with stakeholders



CHANGE MANAGEMENT

Have you implemented an organizational change management and training plan for cloud adoption (This is a plan that helps you manage the impact of business, structural, and cultural changes caused by cloud adoption)?

No

Yes





**APPLICATION &
INFRASTRUCTURE
PORTFOLIO
MANAGEMENT**

Is there a system or mechanism to track inventory and manage your portfolio of applications and infrastructure (e.g. a configuration management database)?

Yes

No



AGILE FRAMEWORKS

Does the organization have at least 12-months of project delivery experience with Agile Frameworks (e.g. SCRUM)?

Yes

No



DEVOPS PLANNING


Has the organization established a DevOps practice, or how does it plan to deliver and manage cloud based services?

- 1 - No DevOps practice or plan has been considered to date
- 2 - We have just started building a DevOps plan to deliver managed cloud services
- 3 - A draft DevOps practice and plan has been created
- 4 - A formal DevOps plan has been approved, but not implemented
- 5 - A formal DevOps practice and plan for managed cloud services is in place



CLOUD ACCOUNT PLANNING

Have you architected, planned or created a baseline account structure (how will you manage your accounts) and control environments (networking, IAM, etc) that support your core business, security and compliance needs (e.g. Landing Zone)?

- 1 - No account structure or control environment has been implemented
 - 2 - A rough account structure has been established, but no environment implemented
 - 3 - A rough account structure has been established, but only a proof-of-concept has been implemented
 - 4 - A proof-of-concept is deployed and a full account structure is in place
 - 5 - A full account structure and production environment with best practices has been deployed
- 



OPERATIONS & RESPONSIBILITIES ALIGNMENT


Has your organization decided who will own operations of cloud based applications and systems (e.g. operational models for deployments and updates)?

- 1 - No operational ownership has been formally established to date
- 2 - We have started building a responsibility matrix to define operations and owners
- 3 - A draft responsibilities matrix with assigned owners has been created
- 4 - A formal responsibilities matrix has been presented to leadership and approved
- 5 - A formal responsibilities matrix has been approved and presented to all assigned stakeholders



FUTURE CLOUD OPERATIONS

Has the future state operating model for cloud been defined?

- 1 - Work in the future state of managed applications in the cloud has been created
 - 2 - We are currently in the process of defining a plan
 - 3 - A draft plan has been created
 - 4 - A formal plan has been presented to leadership and approved
 - 5 - A formal plan on how operations will work in the future state of managed applications in the cloud has implemented
- 



CONTINUITY PLANNING

Has the organization communicated a plan to address business continuity or disaster recovery in the cloud?

Yes

No





OPERATIONAL CLOUD SECURITY

Does the organization have a strong understanding of operating securely in the cloud?

1 - Minimal understanding and experience

2 - Some understanding, but limited experience

3 - Some experience and understanding

4 - Strong understanding and experience

5 - Fully trained and experienced, with a shared responsibility model





CLOUD EXPERIENCE

Is anyone in the organization certified and/or considered an expert or authority on cloud security?

1 - No team members are certified or have comparable experience

2 - No team members have certifications, but some members have experience with cloud

3 - The organization has a small set of cloud certified team members, and others with comparable experience

4 - The organization has a meaningful number of cloud certified team members and others with comparable experience

5 - The organization has critical mass with individuals certified by AWS/Azure/GPC and capable of training others to gain comparable experience



**DOCUMENTED SECURITY
POLICIES**

**Does the organization have a
documented cloud security plan or
methodology?**


Yes

No



**SECURITY LEADERSHIP
COMMITMENT TO CLOUD
ADOPTION STRATEGY**

Does the organization's leadership for IT Security approve of and participates in creating the cloud adoption strategy or planning sessions?

- 1 - Minimal leadership participation
 - 2 - Some leadership approval, but minimal involvement
 - 3 - Some leadership participation and approval
 - 4 - Strong leadership participation and approval
 - 5 - Leadership is fully vested, involved and approves of the security strategy
- 



Q & A

