



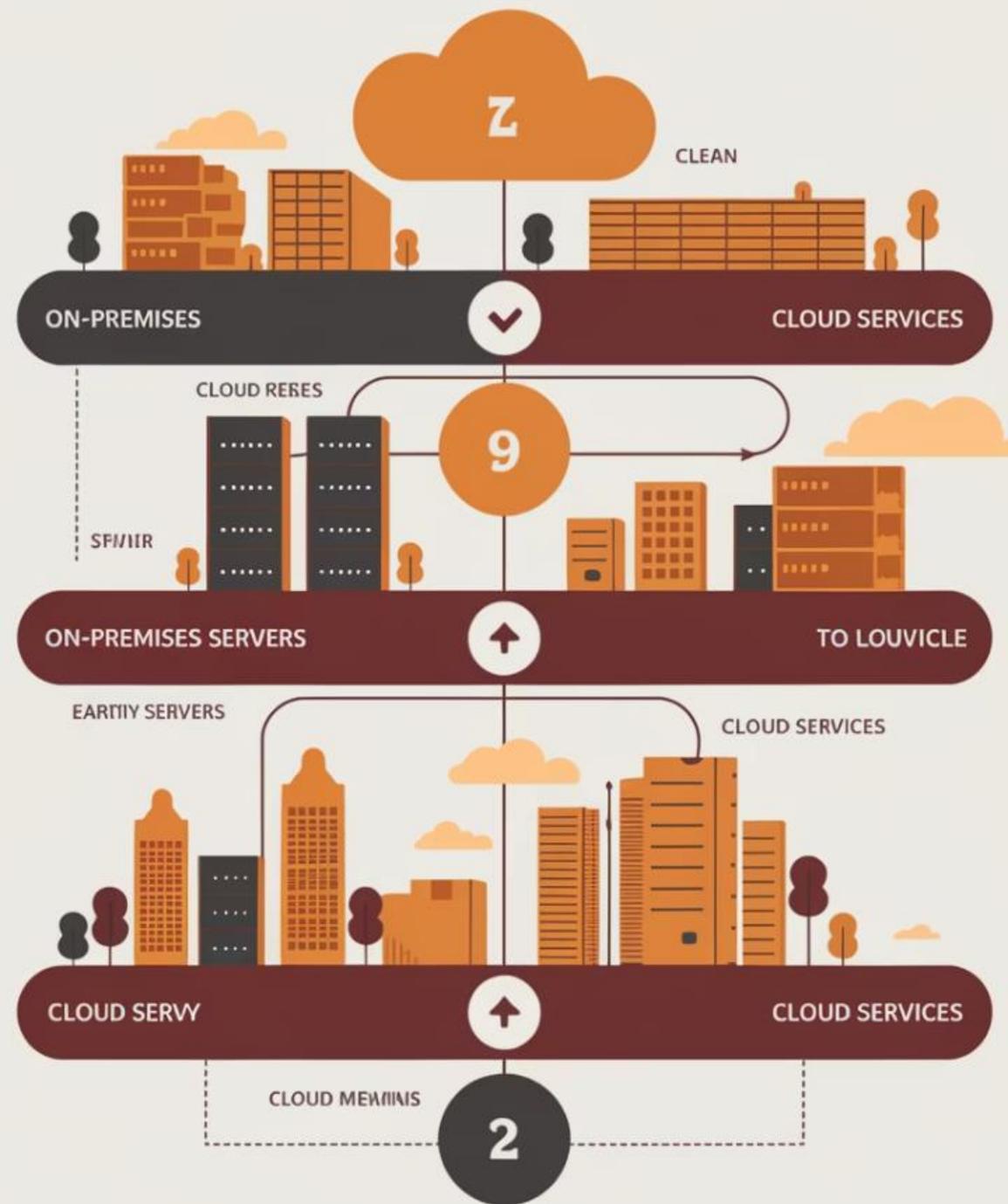
Cloud Migration Project Manager's Guide

Navigate the journey from legacy infrastructure to cloud-native services with confidence. This guide provides project managers with essential checkpoints, practical tips, and strategic frameworks.



by **Kimberly Wiethoff**

Migration Journey Overview



Discovery & Assessment

Inventory systems and align stakeholders on migration goals.



Planning & Design

Create migration blueprint and establish governance.



Migration Execution

Move workloads methodically in coordinated waves.



Optimization & Handover

Optimize resources and transition to operations teams.

Discovery & Assessment Essentials

Inventory Current Systems

Document all applications, servers, and dependencies. Identify integration points and data flows.

Identify Quick Wins

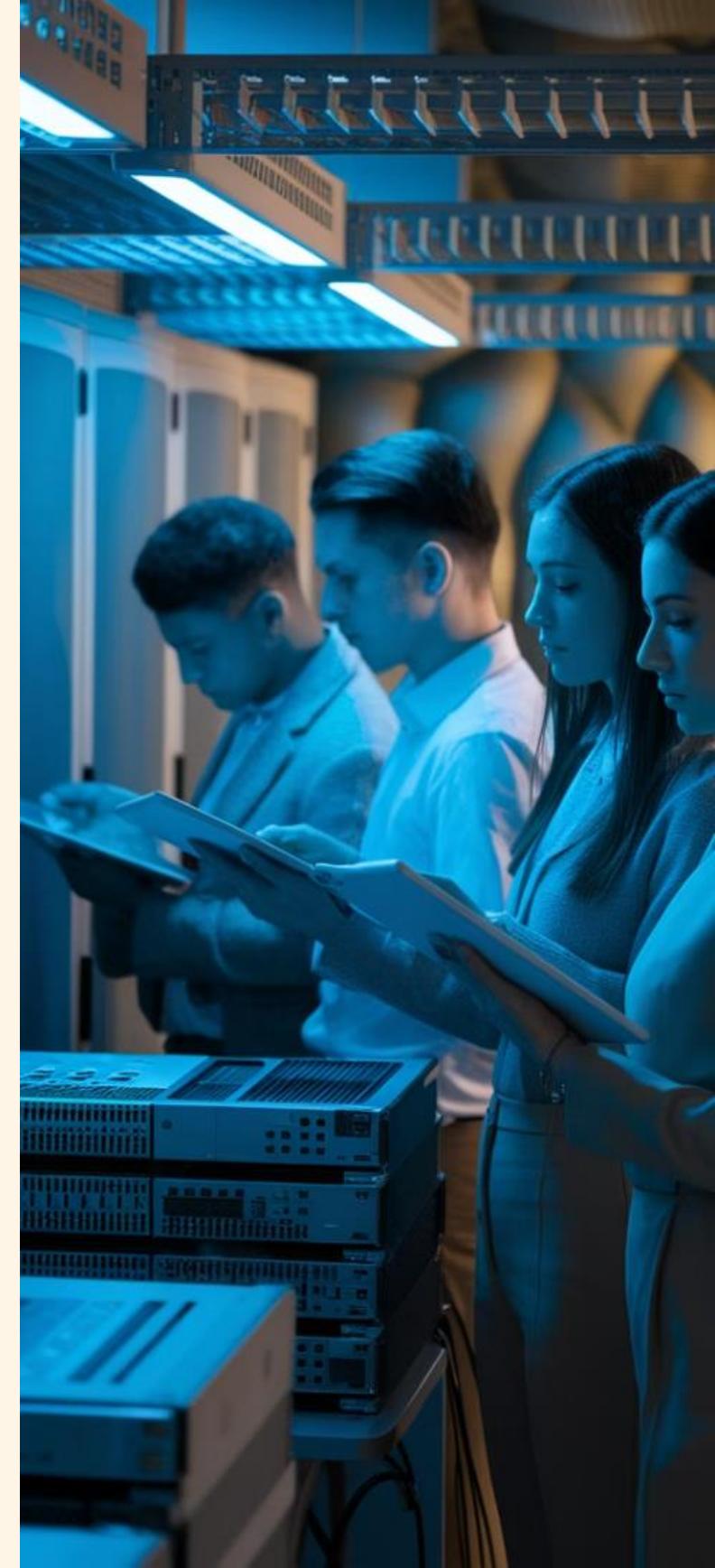
Prioritize file servers and non-production apps. They provide early momentum with lower risk.

Conduct Readiness Assessments

Evaluate network capacity, storage needs, and licensing requirements. Consider compliance implications.

Align On Strategic Goals

Build consensus around cost savings, agility, or scalability objectives. Set measurable targets.



Migration Strategy Selection

Rehost (Lift & Shift)

Move applications without redesign. Fastest approach but limits cloud-native benefits.

Refactor

Optimize applications for cloud without changing core architecture. Balances speed and value.

Rearchitect

Significantly modify applications to leverage cloud capabilities. Higher investment but better ROI.

Rebuild/Replace

Create new cloud-native applications or adopt SaaS alternatives. Most transformative approach.



Building Your Migration Plan



Define Scope & Timeline

Segment migration into logical waves. Prioritize by business impact and technical complexity.



Secure Budget & Contracts

Obtain funding approval. Finalize agreements with cloud providers and migration partners.



Establish Governance

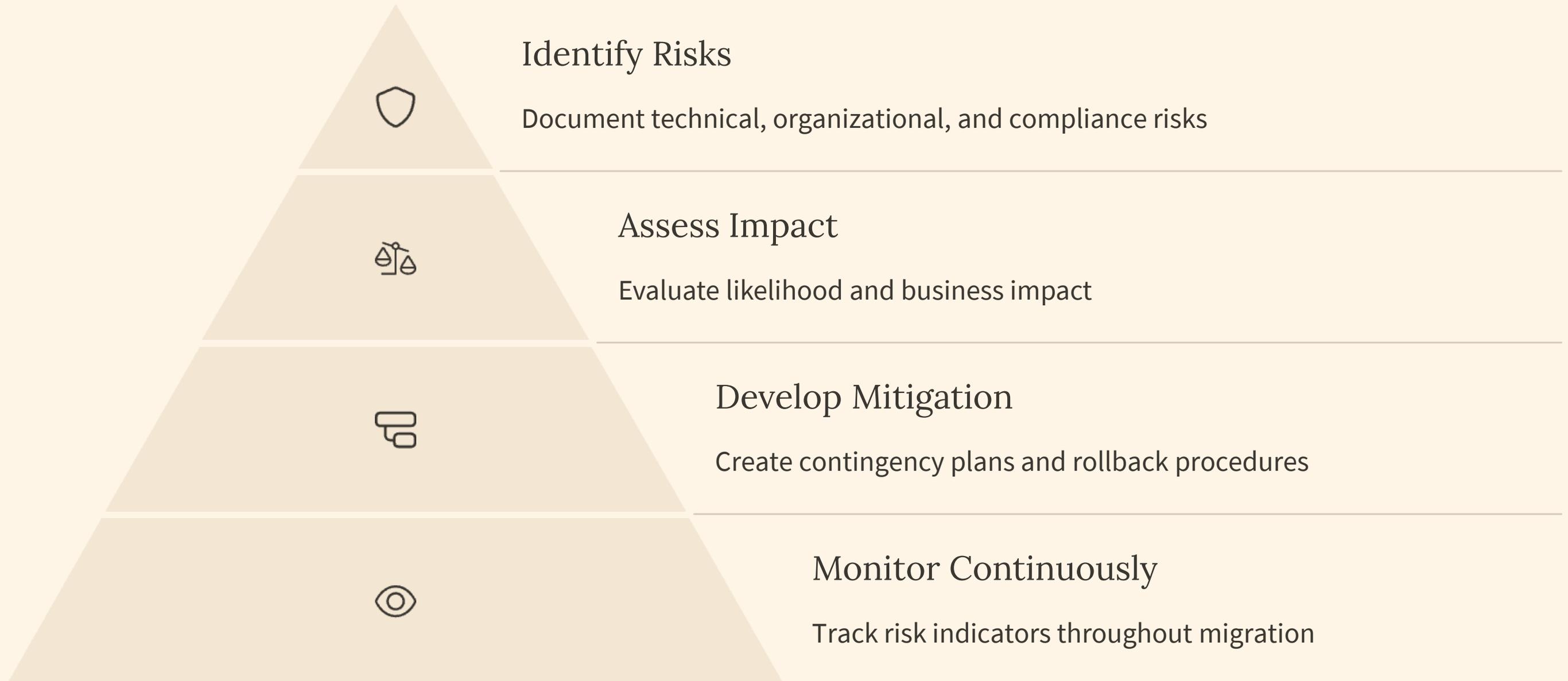
Create RACI matrix. Define decision frameworks and escalation paths.



Set Up Landing Zones

Configure core infrastructure. Implement identity management, networks, and security controls.

Risk Management Approach



Migration Execution Framework

Prepare Environment

Configure cloud infrastructure and testing environments.

Cut Over

Switch traffic to cloud environment and monitor closely.



Migrate Workloads

Execute data transfer and application deployment in waves.

Validate & Test

Perform smoke testing and user acceptance testing.

Command Center Operations

Command Center Setup

Establish a dedicated physical or virtual space. Staff it with technical experts and decision-makers.

Create clear escalation paths. Define roles for critical cutovers and high-visibility migrations.

Real-time Monitoring

Deploy dashboards showing migration progress. Track key metrics and system health indicators.

Use tools like Jira or ServiceNow. Document issues and resolution steps as they emerge.

Communication Protocols

Schedule regular status updates. Create templates for reporting progress to stakeholders.

Maintain open channels with end users. Set up support hotlines during critical transitions.



Post-Migration Optimization

Performance Analysis

Benchmark application performance against pre-migration baseline. Address any degradation issues immediately.

Cost Optimization

Identify and eliminate over-provisioned resources. Implement auto-scaling and reserved instances for predictable workloads.

Security Hardening

Review access controls and security configurations. Conduct vulnerability assessments and penetration testing.



Operational Handover Checklist



Documentation

Compile comprehensive runbooks and architecture diagrams. Update standard operating procedures.



Support Models

Define escalation paths and SLAs. Establish monitoring and alerting responsibilities.



Training

Conduct knowledge transfer sessions. Provide access to cloud platform training resources.



Review Cycles

Schedule regular optimization reviews. Set up quarterly cost and performance evaluations.



Common Migration Challenges

Challenge	Mitigation Strategy
Dependency Gaps	Map all integrations pre-migration. Test thoroughly in staging environment.
Performance Issues	Benchmark before and after. Optimize cloud resources appropriately.
Security Concerns	Involve security team early. Implement least-privilege access model.
Budget Overruns	Set up cost alerts. Review spending weekly during migration.
User Resistance	Create change management plan. Engage users throughout process.

Measuring Migration Success

99.9%

Availability

Target uptime for migrated applications

30%

Cost Reduction

Average infrastructure savings after optimization

40%

Deployment Speed

Improvement in time-to-market for new features

25%

Operational Efficiency

Reduction in maintenance overhead



Next Steps for Success



Prepare assessment templates

Customize inventory and readiness worksheets



Assemble your dream team

Identify technical leads and key stakeholders



Develop cloud governance

Define security standards and operating procedures



Create success metrics

Establish KPIs to measure migration impact

Cloud Migration PM Checklist



Phase 1: Discovery & Assessment

- Inventory existing systems, applications, and dependencies
- Conduct a cloud readiness assessment
- Identify and prioritize migration candidates
- Define migration goals
- Choose migration strategies



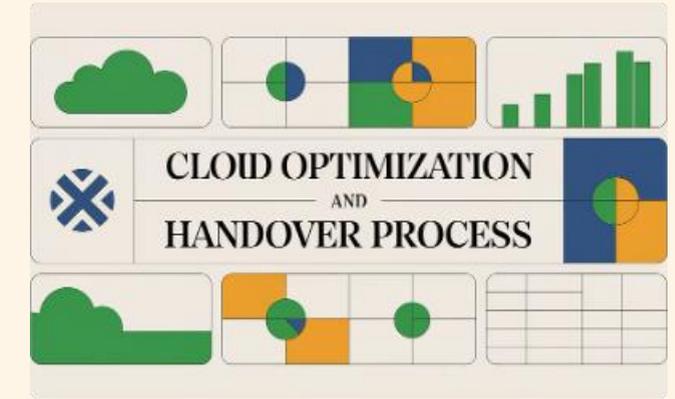
Phase 2: Planning & Design

- Define project scope, migration waves, and schedule
- Secure cloud vendor contracts and budget approvals
- Design landing zones and core cloud architecture
- Develop rollback and risk mitigation strategies
- Establish governance and RACI matrix



Phase 3: Migration Execution

- Provision infrastructure and configure cloud services
- Migrate workloads in prioritized waves
- Perform smoke testing and user acceptance testing
- Monitor system performance and security during migration
- Maintain a real-time issues log and escalation plan



Phase 4: Optimization & Handover

- Conduct post-migration cost analysis and resource rightsizing
- Enable monitoring, auto-scaling, and alerting tools
- Transition management to Ops or DevSecOps teams
- Document lessons learned and update procedures
- Schedule performance and cost optimization reviews

Final Thoughts

Cloud migration is more than a tech initiative—it's a business transformation. As a project manager, your role is to guide the organization through ambiguity, technical hurdles, and shifting priorities—while ensuring clarity, communication, and control.

Use this checklist to make your next cloud migration efficient, secure, and aligned with your strategic goals.

