

# Azure Migration Readiness & Assessment

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# What is Azure Migration Readiness & Assessment?

Azure Migration Readiness is the process of preparing an organization for the transition of its workloads and applications to Microsoft Azure, a cloud computing platform. It involves a series of steps and considerations to ensure that the migration is successful, cost-effective, and aligns with the organization's goals.

## Series of Steps & Consideration

**Preparation and Planning:** Identify applications, data centers, and workloads for migration to Azure, understanding dependencies and potential challenges.

**Skills Assessment:** Evaluate team technical skills, considering training or hiring to ensure migration success.

**Infrastructure Review:** Assess current infrastructure for Azure compatibility, identifying and addressing gaps.

**Security Compliance:** Review security protocols to meet Azure standards, including data protection and privacy regulations.

**Cost Management:** Develop a detailed cost estimate considering resource utilization, scaling needs, and budget constraints.

**Tools & Resources:** Utilize Azure tools like Azure Migrate, Azure Site Recovery, Azure Policy & Blueprints for assessment, migration, governance, and compliance.

**Execution Plan:** Create a detailed migration strategy tailored to each application's requirements, outlining steps, timelines, and milestones.

## Tools & Methods

**Discovery & Assessment Tool:** Evaluates on-premises servers for Azure migration, providing recommendations based on performance, disk types, and sizing.

**Strategic Migration Assessment and Readiness Tool (SMART):** Assesses migration readiness by evaluating business strategy, inventory, technical skills, governance, and more. Provides improvement areas with associated resources.

**Microsoft Advanced Migration Assessment:** Analyzes IT landscape for Azure migration and modernization, assessing architecture, security, compliance, performance, scalability, and reliability.

# What is Azure Migration Assessment (Cost Analysis)

Azure Migration Cost Assessments and Analysis is a critical component of the Azure migration process. It involves evaluating the financial aspects of moving on-premises workloads to Azure. This assessment aims to provide a detailed understanding of the potential costs involved in the migration and the ongoing operational expenses post-migration. Here's an overview similar to the content you provided:

## Azure Migration Cost Assessments and Analysis

This process is designed to give organizations a clear picture of the financial implications of migrating to Azure. It helps in budgeting and financial planning by providing:

**Cost Estimation:** Before migration, it's essential to estimate the monthly, quarterly, and yearly costs associated with running workloads in Azure. Tools like the Azure pricing calculator and Azure Migrate can help forecast your monthly bill for migrated workloads.

**Right-Sizing:** It involves analyzing your current on-premises workloads to determine the optimal size and type of Azure resources needed, ensuring cost-efficiency and performance.

**Cost Optimization:** After migration, it's crucial to continually monitor workloads and optimize costs. This may include selecting the right storage options, using Azure Hybrid Benefit, and Azure Reserved VM Instances.

**Cost Management:** Azure provides tools to view and analyze cost data across various scopes, helping you stay within budget and make informed decisions.

Key components of Azure Migration Cost Assessments and Analysis typically include:

**Detailed Cost Breakdown:** An itemized list of all expected costs, including compute, storage, networking, and additional services.

**Cost Comparison:** A comparison of on-premises costs versus projected Azure costs to highlight potential savings.

**Budget Alignment:** Ensuring that the migration costs align with the organization's financial objectives and constraints.

**Future Cost Projections:** Estimating future costs based on anticipated growth and usage patterns.

# Why is Azure Migration Required

## What are the challenges faced by existing customers?

- Capital Expenses
- Scalability
- Legacy Systems Integration
- Data Migration
- Security Concerns
- Skill Gap
- Performance Optimization
- Change Management

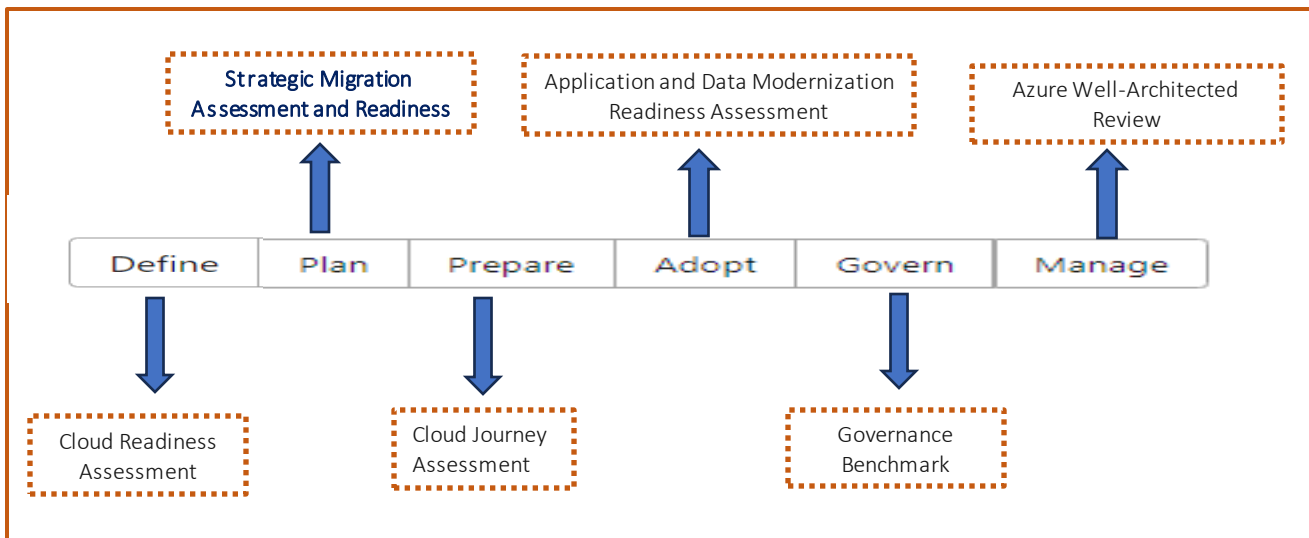
## How will customers benefit from taking an assessment?

- ✓ Cost Optimization
- ✓ Performance Improvement
- ✓ Risk Mitigation
- ✓ Resource Right-Sizing
- ✓ Migration Planning
- ✓ Compatibility Check
- ✓ Operational Efficiency
- ✓ Scalability and Flexibility
- ✓ Improved Security Posture
- ✓ Long-Term Cost Predictability

# Migration Assessment Focus Areas

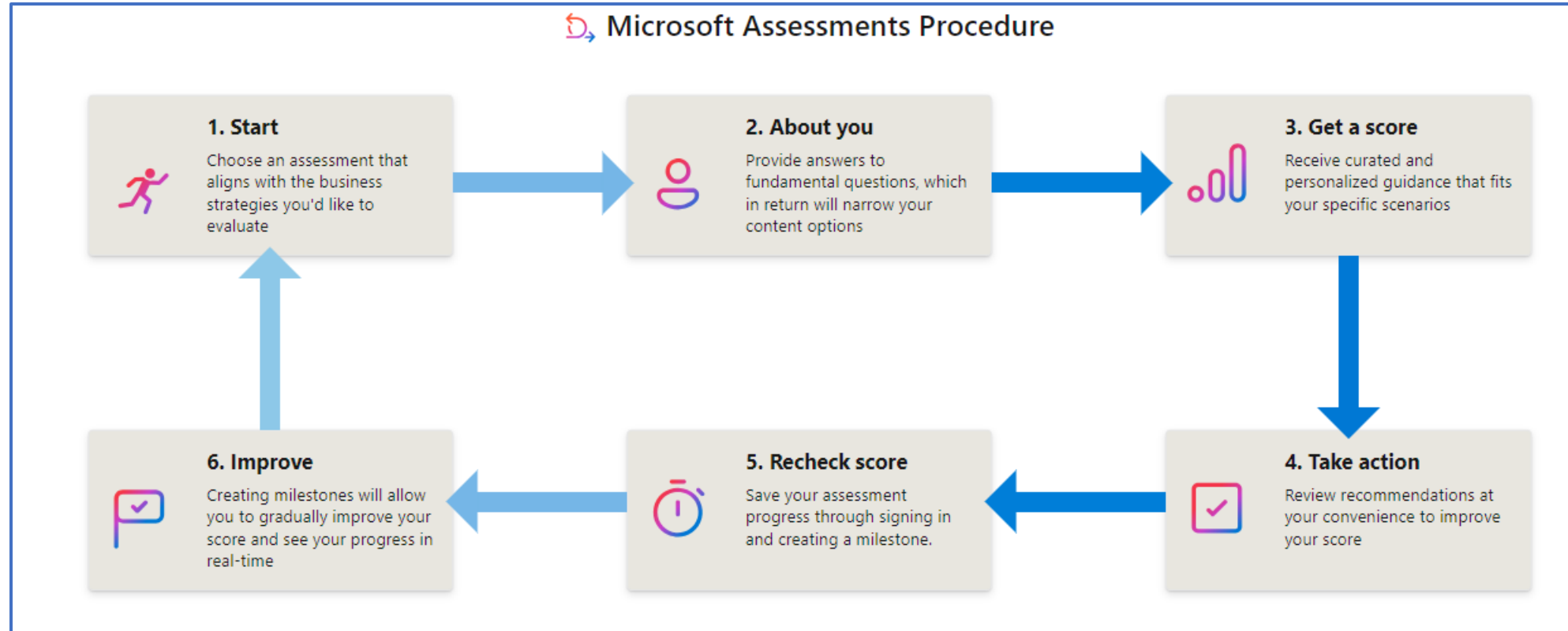
The **Cloud Adoption Framework (CAF)** consolidates best practices from Microsoft and others, offering tools and guidance to shape technology and business strategies, driving desired outcomes in adoption efforts.

Each methodology contributes to the cloud adoption lifecycle, supported by the Cloud Adoption Framework (CAF) throughout each phase of the journey. The framework utilizes methodologies to address common blockers, as depicted in the following diagram.



**Microsoft Assessments** offer curated guidance reports based on scenario-based questions, providing actionable insights.

# Microsoft Assessment Procedure



## Assessments benefits

✓ **Actionable recommendations**

Receive practical recommendations based on your needs

✓ **Self guided**

Access your approach at your convenience

✓ **Track and share progress**

Share assessment results with those you trust and plan your next steps

# Microsoft Assessment Procedure (Cont..d)



Optimizing Cloud and On-Premises Costs through Analytics-Based Right-Sizing



Mapping Resources and Workloads to Azure



Identifying the Best Cloud Instance Size Based on Historical Usage & Current Provisioning



Providing Detailed Instance Information and Data-Backed Business Case Analysis



Comparing Current Costs Using a Reference Catalog & Forecasting Future Costs from Cloud Services



Proposing an Optimal Cloud Configuration for Migration, Including Migration Costs



Analyzing the Most Efficient Use of Existing Licenses

# What are the Azure Migrate Approaches

## Rehost

Lift & shift or Migrate apps to IaaS VM's for fast Migration and better compatibility existing software

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2

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## Replace

Replace some applications with equivalent SaaS offerings with better availability and less TCO

## Rearchitect

Convert application to run as PaaS services to lower ongoing management complexity

1

## Retire

Retire applications that have reached end of life

5

## Retain

Retain applications on premise when that is the only option available especially regulatory compliance.





# How do we do Azure Migration Assessment Saxon's Approach & Timelines (For SMBs)

## Phase 1 Day 1 & 2

### Day 1: Kick-off Meeting

- Establish the project team and roles.
- Define cloud migration goals and motivations.
- Define the scope and objectives of the cost assessment.
- Review existing documentation and understand the current infrastructure.

### Day 2: Tool Setup and Discovery

- Use Strategic Migration Assessment and Readiness Tool (SMART) for migration readiness assessment and recommendations.
- Utilize Azure Migrate for on-premises infrastructure discovery.
- Prioritize workloads based on business needs

## Phase 2 Day 3 to 5

### Day 3: Inventory and Dependencies

- Export the application inventory list.
- Analyze dependencies between workloads using Azure Migrate and share the dependency Map.

### Day 4: Cost Estimation

- Use Azure Pricing Calculator to estimate monthly workload costs.
- Right-size VMs and select appropriate storage options.

### Day 5: Optimization Strategies

- Identify cost optimization strategies for migration and post-migration.
- Leverage Azure Hybrid Benefit and Azure Reserved VM Instances for cost savings.
- Document migration steps, roles, and responsibilities.

## Phase 3 Day 5 to 7

### Day 6: Final Assessment and Validation

- Validate the cost estimates and optimization strategies.
- Ensure alignment with business objectives and budget constraints.
- Outline the verification process of Pre-Migration, Actual Migration and Post Migration

### Day 7: Reporting & Roadmap Development

- Compile the findings into a detailed Azure Migration Cost Assessment report.
- Develop a roadmap for migration based on the assessment findings.
- Provide migration plan using Azure Migrate: Migration tool.
- Share the Migration Monitoring approach

**Disclaimer:** These Timelines vary depending on the Architecture portfolio of the customer's environment , Viz. # of Servers, Workloads, Data volume, Dependencies etc.

# How do we do Azure Migration Assessment Saxon's Approach & Timelines (For Enterprises)

## Phase 1 Week 1 & 2

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# Saxon's Deliverables of Azure Migration Assessment

## Deliverables

- ✓ **Cost Estimation Report:** This report provides a detailed breakdown of all expected costs related to the migration, including infrastructure, licensing, and operational expenses.
- ✓ **Financial Analysis:** A thorough analysis highlighting the financial benefits, potential cost savings, return on investment (ROI), and total cost of ownership (TCO) post-migration.
- ✓ **Optimization Recommendations:** Strategic advice on how to minimize costs during and after the migration, such as choosing cost-effective resources or utilizing Azure's cost management tools.
- ✓ **Migration Budget Plan:** A detailed budget plan that outlines the projected costs throughout the migration journey, ensuring financial transparency and control.
- ✓ **Pricing Calculator Usage:** Guidance on using Azure's Pricing Calculator to estimate the cost of running your services in Azure.
- ✓ **TCO Calculator Usage:** Instructions on leveraging the TCO Calculator to compare the cost of your existing infrastructure with Azure.
- ✓ **Cost Management Best Practices:** Best practices for managing & optimizing Azure costs, including the use of Azure Cost Management & Billing tools.
- ✓ **Post-Migration Cost Analysis:** An analysis report that evaluates the actual costs incurred post-migration against the estimated costs, providing insights into cost performance and areas for improvement.
- ✓ **Readiness Report:** A comprehensive readiness report that outlines the preparedness of your on-premises workloads for migration to Azure.
- ✓ **Migration Roadmap:** A detailed migration roadmap, including timelines and milestones, tailored to your organization's specific needs.
- ✓ **Challenge Identification:** Identification of potential challenges and proposed solutions to ensure a smooth migration process.
- ✓ **Skills Development:** Training and development programs to enhance the skills of cx team for managing Azure services post-migration.
- ✓ **Pre-migration Testing:** A pre-migration testing report to validate the compatibility and readiness of all systems for migration.
- ✓ **Process Documentation:** Documentation of all processes & protocols to be followed during the migration, ensuring consistency & compliance.
- ✓ **Risk Assessment Plan:** A risk assessment and mitigation plan to proactively address any potential issues during the migration.



## About Us

Saxon is a data and analytics company specializing in industry-specific solutions to make organizations more insights-driven. It helps in empowering clients with actionable information for real-time decision-making, serving as a key solution partner to leading data engineering & Cloud Technology platforms, supporting diverse industries in their digital transformation journey.

Saxon has been the Trusted Partner over 2 decades for holistic business transformation: Industry Insights, Consulting Excellence, and Cutting-Edge Cloud & AI Solutions

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**THANK YOU**

