

**EPLEXITY**



# Accelerating your AWS migration with Eplexity

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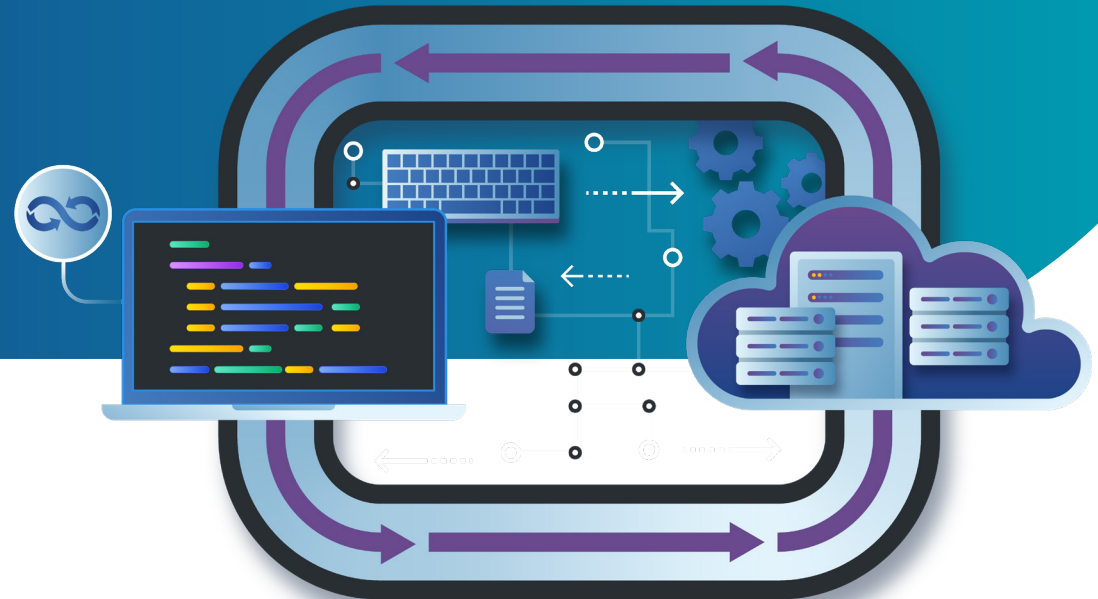


# Introduction

When migrating to the cloud, the ability to move and achieve business value fast is a critical differentiator. Organizations begin to lose momentum, and executive buy-in wanes if progress stalls.

When results are realized too slowly (or aren't properly quantified and communicated), the business case for migration weakens—potentially jeopardizing the project's financing and support.

Over the last 13 years, AWS has helped thousands of organizations migrate workloads to the cloud to reduce costs, improve operational resiliency, gain business agility, and build a foundation for rapid innovation. Based on this experience, Eplexity and AWS have built a complete and proven approach for migrating one to thousands of workloads to the cloud— and helping you quickly and efficiently realize, measure, and communicate the tangible benefits of your migration.



# Business Value

Often, the decision to migrate workloads to the cloud starts with a desire to reduce costs; however, customers find that the strategic value of migrating to AWS goes well beyond the cost savings of retiring legacy infrastructure.

At AWS, our research and experience have led us to identify eight key drivers that compel businesses to migrate to the cloud. These are:



**1 Cost reduction**



**5 Data center consolidation**



**2 Agility and staff productivity**



**6 Digital transformation**



**3 Improved security and operational resilience**



**7 Going global quickly, mergers and acquisitions (M&A)**



**4 Outsourcing and hardware/ software end-of-life**



**8 New technologies (such as AI/ML and IoT)**

# Foundation for a successful migration

Organizations that migrate a substantial application portfolio early in their journey—and combine those efforts with modernization initiatives—generally derive the biggest business results from their AWS migrations.

Eplexity and AWS work with customers through a three-phase migration approach that integrates modernization into the migration process. The three-phase migration process and the seven migration patterns (“The 7 R’s”) described in the next sections serve as guiding principles to structure your cloud migration journey in ways that help you realize fast, continuous, quantifiable business value.

[Contact Us for more information on migrating to AWS](#)

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# The three-phase migration process

Eplexity and AWS understand that every migration is different; however, based on our experience helping organizations of all maturity levels, industries, and geographies migrate to the cloud, we have seen a standardized migration process take shape.

This process can generally be broken into three phases of activities: **1) Assess**, **2) Mobilize**, and **3) Migrate and modernize**. Following this three-phase approach is the best way for your organization to efficiently and quickly migrate tens, hundreds, or thousands of workloads.

It is important to note that, while each phase is a common component of a successful migration, they are not discrete phases. As an example, we've seen where customers have migrated an initial application and it becomes an iterative process allowing them to migrate additional applications and workloads to AWS. As you iterate and migrate more workloads, you will be able to drive repeatability and predictability in processes and procedures, accelerating and optimizing your migration efforts.



# The three-phase migration process (cont.)



## Phase 1: Assess

In the Assess phase, Eplexity will help assess your on-premises or co-location resources and build a right-sized and optimized cost projection for running workloads in the cloud. Eplexity and AWS offer services and tools that can help.

The AWS Migration Readiness Assessment is a process of gaining insights into how far along you are in your cloud journey, understanding your current cloud-readiness strengths and weaknesses, and building an action plan to close identified gaps. You can use the AWS Cloud Adoption Framework (CAF) as a guide to help ensure that you have a holistic view of the transformation initiative that is required for an effective move to the cloud.

[Refer to the AWS Migration Readiness Guide to learn more](#)



## Phase 2: Mobilize

In the Mobilize phase, Eplexity and AWS will help address gaps in your organization's readiness that were uncovered during assessment, with a focus on building your baseline environment (the "landing zone"), driving operational readiness, and developing cloud skills.

The AWS Cloud Adoption Readiness tool helps you develop plans for your cloud adoption based on your migration readiness. **AWS Migration Hub** automates the planning and tracking of application migrations across multiple AWS and Eplexity tools, allowing you to choose the migration tools that best fit your needs.

# The three-phase migration process (cont.)

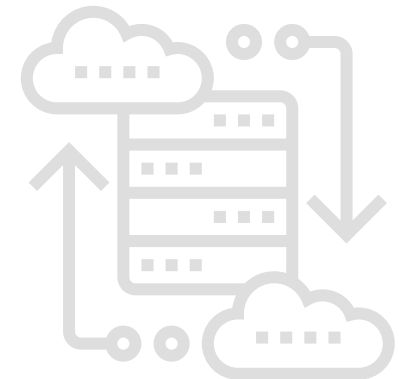


## Phase 3: Migrate & Modernize

During the Migrate & Modernize phase, each of your workloads will be designed, migrated, and validated. AWS Migration Hub allows you to quickly get progress updates across all of your migrations, easily identify and troubleshoot any issues, and reduce the overall time and effort spent on your migration projects.

For many workloads, the best approach is to rapidly move to the cloud and then rearchitect in AWS. CloudEndure, an AWS company, provides CloudEndure Migration to quickly rehost a large number of machines from multiple source platforms (physical, virtual, or another cloud) to AWS, without worrying about compatibility, performance disruption, long cutover windows, or longdistance data replications.

Many enterprises use the migration effort to also modernize their businesses by refactoring their legacy technology portfolio. Some proven ways to do this include **infrastructure automation** (elastic infrastructure, containers, AI/ML), **agile development practices** (DevOps, test automation, CI/CD, observability), **cloud-native architectural patterns** (stateless, microservices, serverless, data lakes), Windows modernization, database modernization, and **product-based operating models** (product teams, business outcome alignment, full-stack vs. platform structures). These methods accelerate innovation and increase agility, resiliency, and efficiency to accelerate your speed to market and customer outcomes.





# Seven common patterns for migration: “The 7 R’s”

There’s more than one way to migrate an app. Common migration patterns usually follow one of six basic patterns—but when you migrate to AWS, you’ll gain a seventh option (relocate), rounding out what we refer to as “The 7 R’s.” Creating a detailed strategy that identifies the best pattern(s) for your workloads is essential to accelerating your journey into the cloud and achieving your desired business objectives. Below are the details on each of these seven patterns as we see them adopted most often by our customers.



## 1. Rehost

Also known as “lift-and-shift”

In a large-scale migration scenario, where you need to migrate and scale quickly to meet a business case—such as a data center lease termination—we find that the majority of workloads are rehosted.

Most rehosting can be automated with tools such as CloudEndure Migration. For times when you can’t install an agent on the server, AWS Server Migration Service offers agentless capabilities, which make it easier and faster for you to migrate thousands of on-premises workloads to AWS from a snapshot of the existing servers.



## 2. Re-platform

Sometimes referred to as “lift-tinker-and-shift”

This entails making a few cloud optimizations in order to achieve tangible benefits but without changing the core architecture of the application. For example, if you’re managing a messaging broker today, you can easily replace Seven common patterns for migration: “The 7 R’s” with the fully managed Amazon MQ service—without rewriting your applications or paying for third-party software licenses. Or, if you’re migrating a Windows-based application that requires file storage, you can use the fully managed Amazon FSx for Windows File Server.

To reduce the amount of time you spend managing database instances, you can move to a database-as-a-service offering such as Amazon Relational Database Service (Amazon RDS). When moving from one database source or version to a new platform or software version, AWS Database Migration Service keeps the source database fully operational during the migration, enabling near-zero downtime during the cutover.

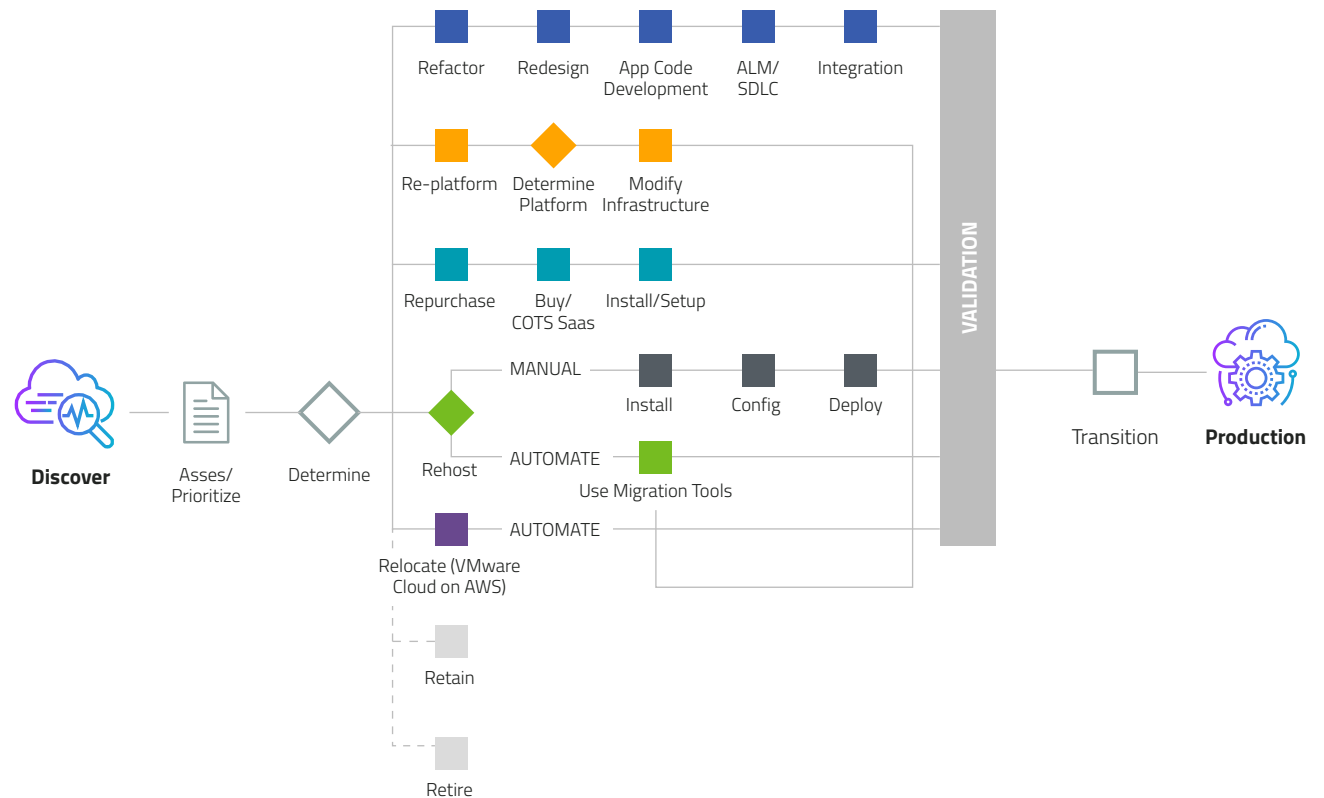
# Seven common patterns for migration: "The 7 R's" (cont.)



## 3. Refactor

Change the way the application is architected and developed, usually done by employing cloud-native features such as building a data lake. Typically, refactoring (or rearchitecting) is driven by a strong business need to add features, scale, or improve performance that would otherwise be difficult to achieve in the application's existing environment.

If your organization is looking to boost agility or improve business continuity by moving to a service-oriented architecture (SOA) this strategy may be worth pursuing – even though it is often the most expensive solution.



# Continue learning



**[AWS Cloud Migration](#)**

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**[AWS Migration Acceleration Program \(MAP\)](#)**

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**[Eplexity Migration Services](#)**

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