

Transform Your Business

A Guide to AWS Cloud Migration

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Introduction

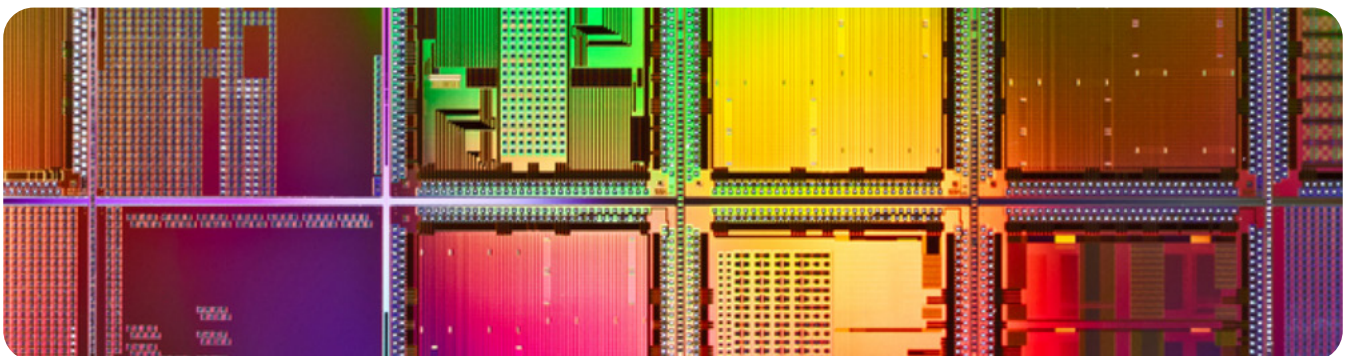
Migrating to Amazon Web Services (AWS) enables organizations to transform their business. By moving to AWS, organizations are free from the constraints of on-premises data centers and provide the flexibility to pay only for what they use. This eBook will detail how cloud adoption can deliver significant business benefits.

A key imperative is developing a thorough and compelling business case that identifies the specific business benefits your organization will achieve by moving to the cloud. A robust methodology is also crucial.

We will give an overview of the five-phase migration process, which serves as a guide to migration and learn about seven common migration strategies used to move applications and workloads to AWS.

You will also be introduced to the support options available from Amazon Web Services Partner Network (APN) Partners and vendor solutions on AWS Marketplace that AllCloud can help you migrate.

Developing a robust business case will also help you begin to see the positive effect that migration will have on your people and organization. This will help you understand how specific roles and responsibilities for the cloud adoption effort will be assigned.



Business Case

A robust and thorough business case is critical



Less infrastructure
admin



No upfront
investments



More agility

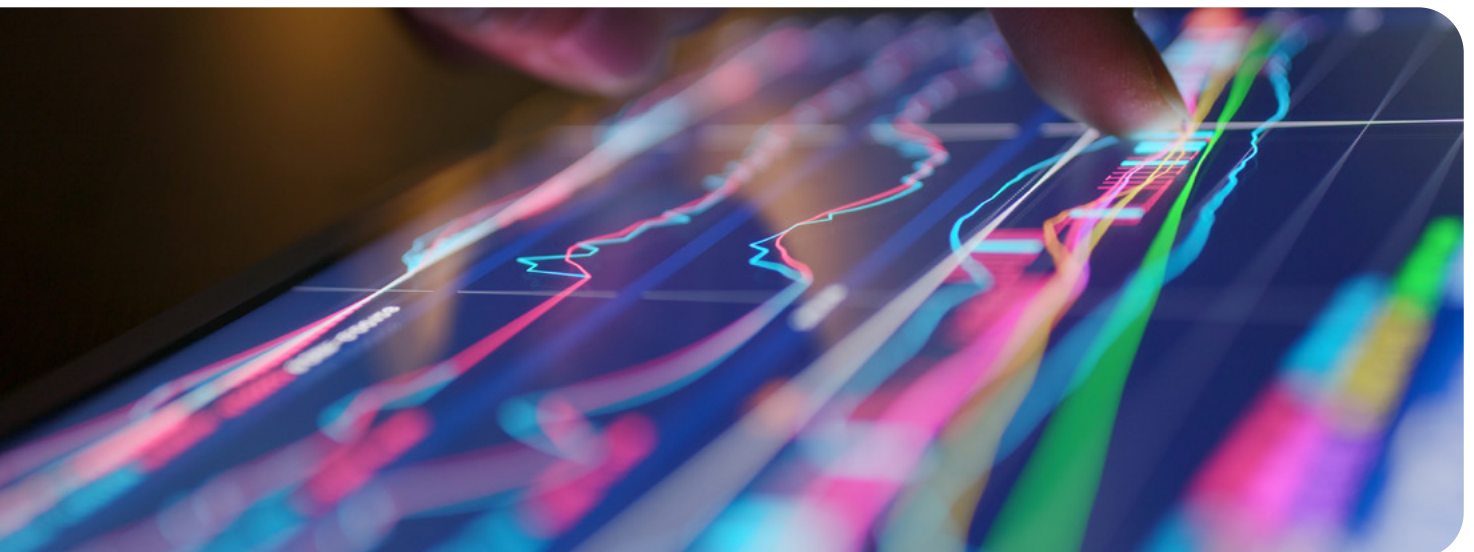
A core tenet of migrating to AWS is developing a business plan based on your organization's fundamental reasons for cloud adoption.

For example, moving to AWS means your organization's IT team will spend significantly less time managing onpremise infrastructure and upgrades. It also means you will no longer have to make significant upfront investments in hardware and software or manage ongoing maintenance.

Faster time to market, improved workforce productivity, and more transparency into operational costs are among the most common reasons our customers migrate to AWS.

Other frequent business drivers for AWS migration are increased operational agility, which enables you to react to market conditions more quickly and using the global footprint of AWS to reduce your risk profile.

These factors help build a robust and compelling business case for moving to the cloud.



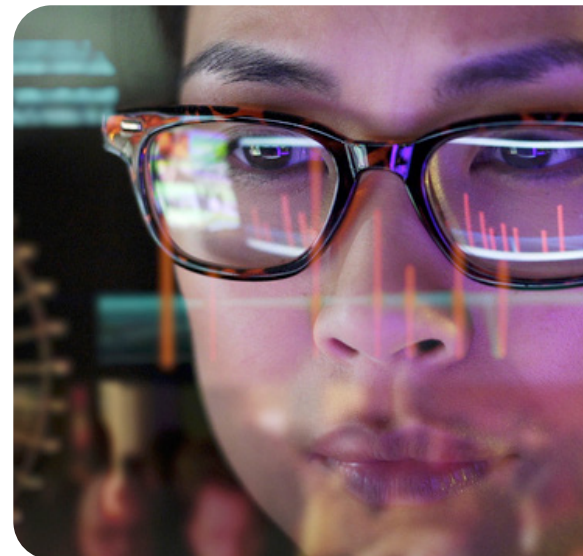
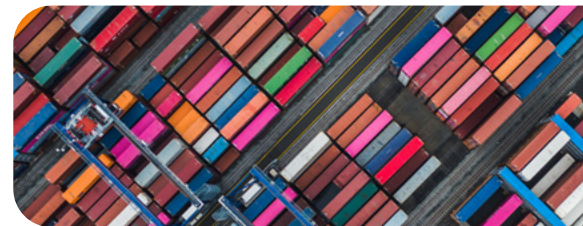
Change Management Mindset

Get professional support

When you work with AWS or an APN Premier Partner like AllCloud, you can create a business case for migration based on sound planning and preparation. The business case will help accurately determine the cost of the current on-premises data center, what the migration cost will be, and what the new AWS cost will be. Based on this, you can set expectations for cloud adoption and provide your organization an opportunity to begin the process of instilling a change management mindset throughout your workforce.

Once you complete your business plan, you will have an idea of what the financial impact and benefits will be. As the cloud adoption process evolves, you will be able to more accurately consider the many ways this transformation will impact your organization as a whole.

Creating a business case will also help you begin to answer a few key questions, such as:



- 1 What is the expected Return on Investment (ROI), and when will the projected cash flow be positive?
- 2 What are some of the other business value benefits of cloud adoption, beyond cost savings?
- 3 What is the potential business impact of migrating a select group of applications first?
- 4 What are the factors that help customers determine if a hybrid cloud environment would be the best solution?
- 5 What indicators are used to estimate how long the migration process will take?

Five-Phase Migration Process

The five-phase migration process can help guide your organizational approach to migrating tens, hundreds, or thousands of applications. The migration process serves to envision the significant milestones of cloud adoption during your journey to AWS.

Phase 1 | Migration Process and Business Planning

Developing a sound business case requires taking your objectives into account, along with your existing applications' age and architecture and their constraints. Engaged leadership, frequent communication, and clarity of purpose, along with aggressive but realistic goals and timelines, make it easier for an entire company to rally behind the decision to migrate.

You will want to establish operational processes and form a team dedicated to mobilizing the appropriate resources. This team is your Cloud Center of Excellence (CCoE), and they will be leading your company through the organizational and business transformations throughout the migration effort.

The CCoE identifies and implements best practices, governance standards, automation, and drives change management.

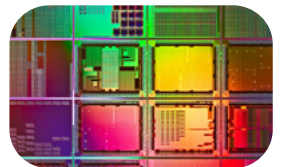
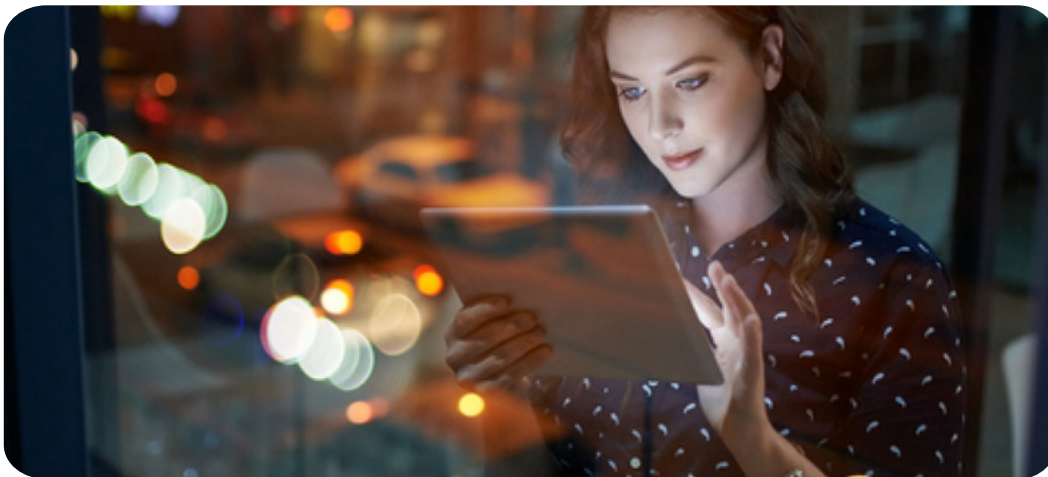
An effective CCoE evolves, starting small and then growing as the migration effort ramps up.

This evolution helps establish migration teams within your company, and decide which ones will be responsible for migrating specific portions of your IT portfolio to AWS. The CCoE will also communicate with the migration teams to determine areas where you may need to work with an APN Partner such as AllCloud or a vendor offering an AWS Marketplace solution to help you offset costs and migrate successfully.



Cloud Center for Excellence

The CCoE plays an integral role in beginning to identify the roles and responsibilities of the smaller migration teams in this phase of the migration process. It is important to gain familiarity with the operational processes that your organization will use on AWS. This will help your workforce build experience and start to identify patterns that can help accelerate the migration process, simplifying the method of determining which groups of applications can be migrated together.



Cloud Center for Excellence

- 1 Get executive buy-in (this will lead to organization-wide commitment for cloud adoption). The CCoE structure will evolve and change as the organization transforms.
- 2 Treat the cloud as your product and the application team leaders as your customers. Organizational change management is central to business transformation and cloud adoption. Use
- 3 Intentional and targeted organizational change management to change company culture and norms.
- 4 Embrace a change-as-normal mindset: Change of applications, IT systems, and business direction is expected.
- 5 Operating Model decisions will determine how people fill roles that achieve desired business outcomes.

Phase 2 | Portfolio Discovery and Planning

Full portfolio analysis of your environment, complete with a mapping of interdependencies, and migration strategies and priorities, are critical elements to building a plan for a successful migration.

The complexity and level of business impact of your applications will influence how you migrate. Beginning the migration process with less critical and complex applications in your portfolio creates a sound learning opportunity for your team to exit their initial round of migration with:

1. The confidence they are not practicing with mission-critical applications in the early learning stages.
2. Foundational learnings they can apply to future migration iterations.
3. Ability to fill skills and process gaps, as well as positively reinforce best practices based on experience.

Phase 3 & 4 | Application Design & Migration and Validation

These two phases are combined because they are often executed at the same time. They occur as the migration effort ramps up, and you begin to land more applications and workloads on AWS.

During these phases, the focus shifts from the portfolio level to the individual application level. Each application is designed, migrated, and validated according to one of the seven common application strategies. ("The 7 R's" will be discussed in greater detail later.)

A continuous improvement approach is often recommended. The level of project fluidity and success frequently comes down to how well you apply the iterative methodology in these phases.

Phase 5 | Modern Operating Model

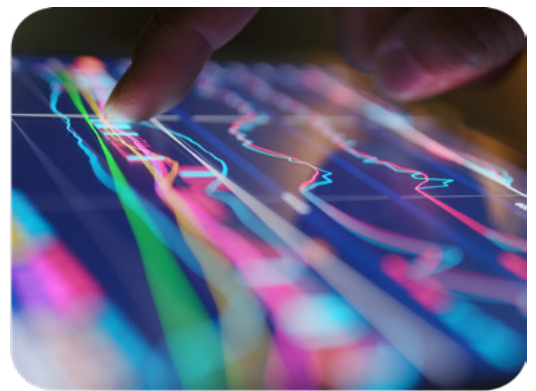
As applications are migrated, you optimize your new foundation, turn off old systems, and continuously iterate toward a modern operating model.

Think about your operating model as an evergreen set of people, processes, and technologies that constantly improves as you migrate more applications.

Ideally, you will be building off the foundational expertise you already developed. If not, use your first few application migrations to establish that foundation, and your operating model will continually improve and become more sophisticated as your migration accelerates.

Seven Common Migration Strategies

Organizations considering a migration often debate the best approach to get there. While there are no one-size-fits-all approaches, the focus should be on grouping each of the IT portfolio's applications into buckets defined by migration strategies.



At this point in the migration process, you will want to have a solid understanding of which migration strategy will be best suited for the different parts of your IT portfolio. Being able to identify which migration strategies will work best for moving specific portions of your on-premises environment will simplify the process. This is done by determining similar applications in your portfolio that can be grouped and moved to AWS simultaneously.

The 7 Rs

Seven common migration strategies

REHOST

Also known as “lift-and-shift”

In a large legacy migration scenario where your organization is looking to accelerate cloud adoption and scale quickly to meet a business case, we find that most applications are Rehosted.

REPLATFORM

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

Replatform entails making a few cloud optimizations to achieve some tangible benefit without changing the application’s core architecture.

RELOCATE

Leveraging VMware Cloud on AWS

Quickly move hundreds of vSphere-based applications to AWS without changes with VMware Cloud on AWS and maintain seamless operations. Once on AWS, your applications are easier to optimize or re-architect to take advantage of the breadth and depth of AWS services.

RETAIN

Do nothing, for now – revisit later

Organizations retain portions of their IT portfolio because there are some that are not ready (or are too complicated or challenging) to migrate, and feel more comfortable keeping them on-premises.

REFACTOR (RE-ARCHITECT)

Changing the way the application is architected and developed, usually done by employing cloud-native features

Typically, this is driven by a strong business need to add features, scale, or performance that would otherwise be difficult to achieve in the application’s existing environment.

REPURCHASE

Replacing your current environment, casually referred to as “drop and shop”

Repurchase is a decision to move to a newer version or different solution, and likely means your organization is willing to change the existing licensing model it has been using.

RETIRE

Decommission or archive unneeded portions of your IT portfolio

Identifying IT assets that are no longer useful and can be turned off will help boost your business case and focus your team’s attention on maintaining the widely used resources. comfortable keeping them on-premises.

Conclusion and Next Steps

Migration is the beginning of what is possible with AWS adoption and cloud capabilities. Looking at migration as an organizational change project helps you generate buy-in across your organization and maintain communications through each stage of the process.

Build a business case and refine the ROI as the project progresses. Identify specific roles and responsibilities for your migration team members, and familiarize them with the five-phase Migration Process and Seven Common Migration Strategies to set your organization up for success. You will then be prepared to transform the way your company does business and realize the benefits of cloud adoption on AWS.

Working with an APN Partner is key to successfully migrating your first or your 500th workload. The expertise and knowledge about AWS will ensure a smooth migration while assisting in realizing a faster time to value. To help organizations transform their business with AWS, AllCloud has developed the AllCloud Migration Readiness Assessment.



AllCloud Migration Readiness Assessment

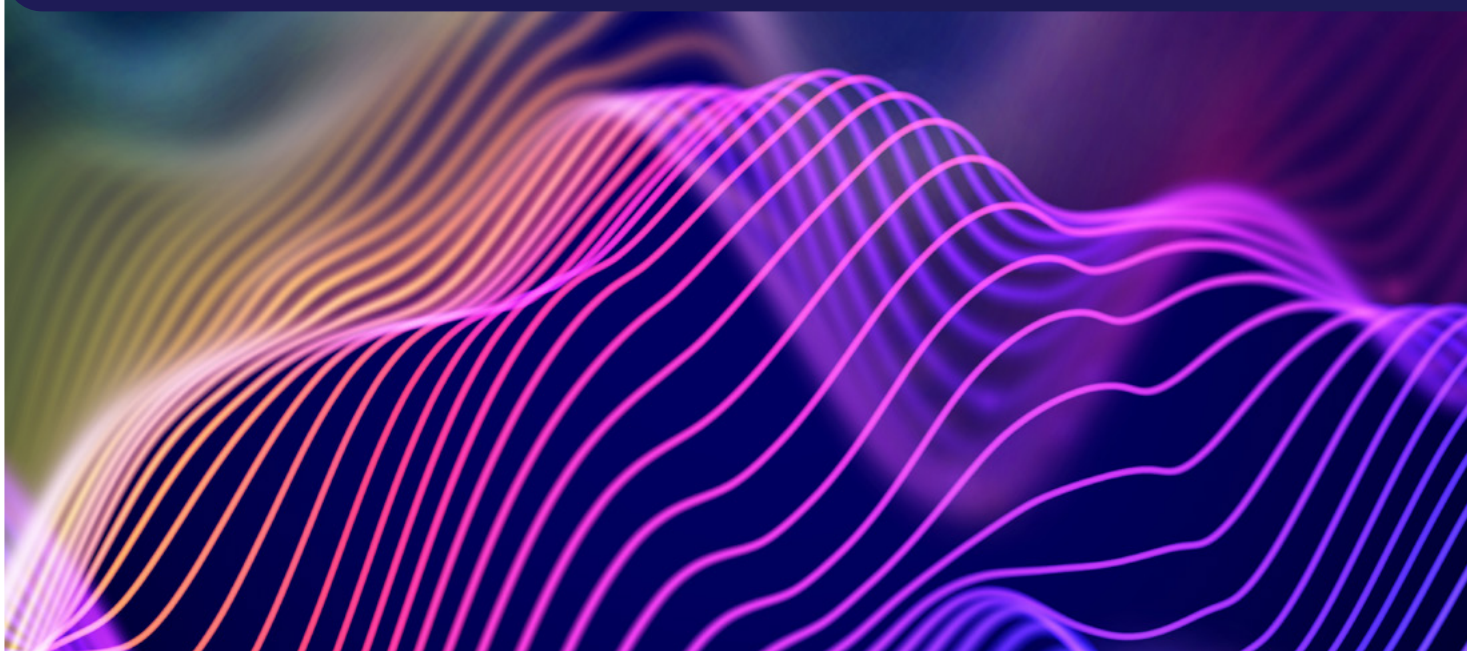
Realize the benefits of the cloud faster with an AllCloud Migration Readiness Assessment

The AllCloud Migration Readiness Assessment covers overall business needs, from people, governance and platform, to security and operations. The service provides a full migration strategy to modernize your platforms and accelerate the migration of your workflows throughout your cloud journey. AllCloud will also assist in the complete migration of a proof-of- concept workload to AWS.

Key Deliverables of the AllCloud Migration Readiness Assessment:

- A full roadmap and enterprise baseline, built on the AWS Framework, understanding the needs of your business in preparation to migrate. A successful proof of concept for a single workload migrated to AWS, providing peace of mind and confidence before committing to a full-scale migration.
- A business case justification, supported by the total cost of ownership, including non- risk, iterative migrations of all workloads within a hybrid environment or pure cloud-based architecture.
- Based on the results of this assessment, AWS and AllCloud experts evaluate the best workloads to migrate, as well as the best order in which to migrate them in relation to your long-term cloud journey strategy.
- As the plan is being reviewed, AllCloud works with you to set up an AWS proprietary Landing Zone.

**Ready to take the next step in your Cloud Migration Journey?
Learn more about our Migration Readiness Assessment.**



About AllCloud

AllCloud is an AWS Premier Consulting and Managed Services Partner, holding several AWS Competencies, including Migrations, DevOps, SaaS and Security. The company works hand-in-hand with customer IT teams to design and build secure, reliable and cost-effective cloud solutions on the most advanced, highly automated, and fully managed infrastructure.

allcloud.io/services/aws | info@allcloud.io

