

Self-Serve Migration Starter

Learn how to re-host a first application

This **Self-Service Migration Guide** walks you through everything you need to migrate a first application to AWS. By leveraging AWS CloudEndure Migration, you will quickly and safely re-host a first application on AWS, building hands-on migration experience. When you are ready, AWS Professional Services and AWS Migration Competency Partners are ready with methodologies, tools, and experts to help you accelerate a future mass-migration to the AWS Cloud.

Why focus on a re-host pattern for my first migration?

Based on experience with thousands of enterprise migrations, we find that a re-host migration pattern leveraging AWS automation tools is the fastest way for customers to build initial experience. Applications are easier to optimize/re-architect once they're already running in the cloud. Partly because your organization will have developed better skills to do so, and partly because the hard part — migrating the application, data, and traffic — has already been done. In a mass-migration scenario, we find that the majority of applications are re-hosted.

What to expect in this guide:

- 1 Learning** Build initial knowledge on the AWS tools you'll be using
- 2 Set Up Environment** (If needed), learn how to deploy an automated landing zone using AWS Control Tower
- 3 Build Experience** Take a self-guided online workshop that walks you through end-to-end migration of a sample application
- 4 Migration** Use what you've learned to re-host a first application using AWS CloudEndure Migration
- 5 Next Steps** Learn how AWS can help you build on your initial momentum to support a mass-migration scenario

Learn more at:

aws.amazon.com/cloud-migration

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1. Learning

[AWS CloudEndure Migration](#) simplifies, expedites, and reduces the cost of cloud migration by offering a highly automated lift-and-shift solution. If you are also building a new AWS environment, starting a new cloud initiative, or are completely new to AWS, [AWS Control Tower](#) helps you get started quickly with a new, secure, multi-account AWS environment with governance and best practices built-in, including mandatory and strongly recommended guardrails, and a self-service console experience to ensure accounts and configurations comply with your policies.

Recommended learning path

[CloudEndure Technical Training](#)

In this training you will learn key CloudEndure Migration concepts, architecture, and implementation in a step-by-step walkthrough through the entire migration process. (~2 hours)

If also building a new AWS environment:

[Architecting Security & Governance Across Your Landing Zone](#)

In this training you will learn everything you need to know on building an AWS presence from scratch. (~1 hour)

Optional learning material

[Using AWS Control Tower and CloudEndure to migrate workloads \(blog\)](#)

[CloudEndure Case Studies](#)

[Control Tower Case Studies](#)

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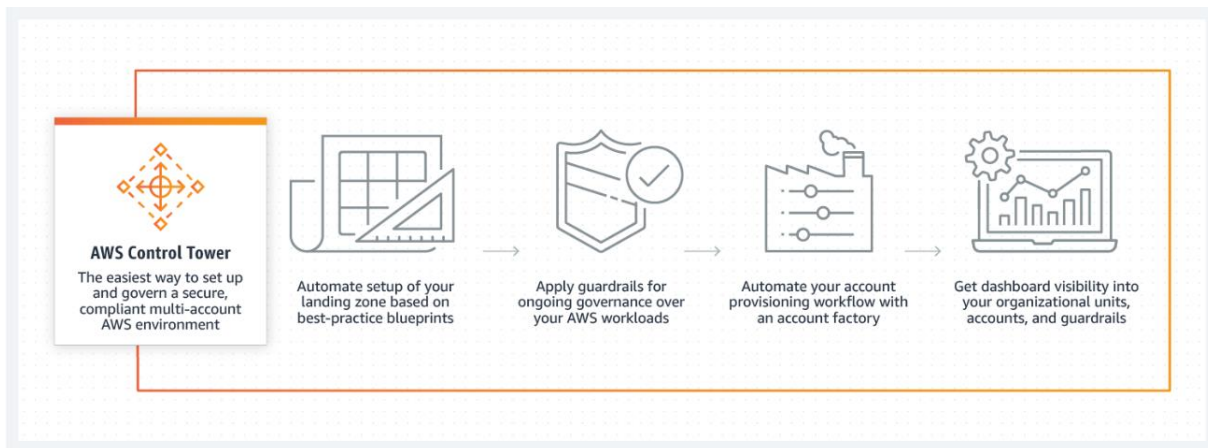
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2. Set up an AWS environment

! If you have an existing AWS environment, skip ahead to Step 3 (“Build Experience”)



1. Setting up Landing Zone

Follow this document ([“Getting started with Control Tower”](#))

2. Creating a VPC

Follow this [Quick Start](#), developed by AWS Solution Architects, to create a Virtual Private Network (VPC). This Quick Start provides a networking foundation based on AWS best practices for your cloud infrastructure.

Use the networking architecture [in this blog post](#) to complete your AWS environment for this migration.

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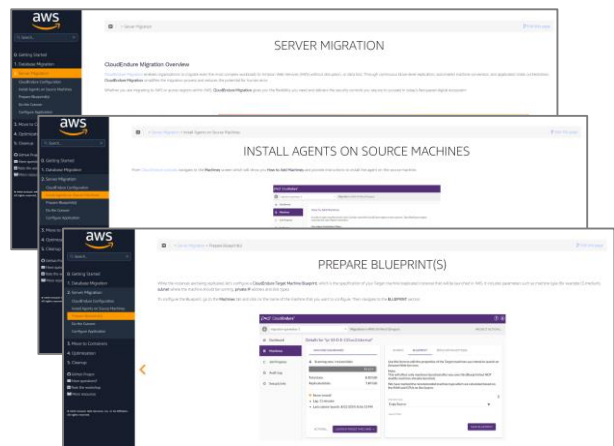
3. Build Experience

Next, you'll complete a self-service online migration workshop that walks you step-by-step through the process of using AWS CloudEndure Migration to lift-and-shift a sample e-commerce application. This workshop will help you build hands-on experience before migrating your own first application.

Click to launch the migration workshop

! For this re-hosting migration experience, focus on '2. Server Migration' in the workshop

In this online workshop you will learn how to configure CloudEndure Migration, install agents, prepare blueprints, cutover, and configure an example application



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4. Migration

At this stage, you will select a low impact workload for rehost migration and actual test launch and cutover of your own application.

Select a low-impact workload for rehost migration:

A rehost-based pilot migration of a low-complexity business application helps validate infrastructure and operational capabilities. Target applications are typically homegrown or commercial off-the-shelf (COTS) applications that stand alone (i.e. minimal dependencies with other applications or systems). Target applications are typically in steady state, with infrequent releases and updates. For more detailed description of rehosting strategies, review this [blog post](#).

Perform replication, test, cutover:

Full documentation available in [CloudEndure User Guide](#)

1. Following the instructions in the user guide, work through defining your [replications settings](#) to the AWS cloud; [installing the CloudEndure agents](#) and [configuring the target machine blueprint](#).
2. The key milestone at this stage is to accomplish your test launch. As you learned in the workshop earlier, a best practice is to perform a test migration at least one week before the target migration date. This best practice helps identify any challenge with your Blueprint configuration or with replicated volume conversion and address them.
3. Conduct your Test Migration as described in the "[Testing the migration solution](#)" section of the user guide. If there are any issues, contact [Support](#).
4. Once you have completed your testing and are ready to transition your machines to the AWS cloud, you should perform the Cutover Mode action using the [workflow](#) outlined.

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5. Next Steps

Ready to get started on a large-scale migration?

Contact your AWS account team about AWS Migration Acceleration Program (MAP)



The AWS [Migration Acceleration Program](#) (MAP) is designed to help enterprises that are committed to a migration journey achieve a range of these business benefits by migrating existing workloads to Amazon Web Services. MAP has been created to provide consulting support, training and services credits to reduce the risk of migrating to the cloud, build a strong operational foundation and help offset the initial cost of migrations. It includes a migration methodology for executing legacy migrations in a methodical way as well as robust set of tools to automate and accelerate common migration scenarios.

Need to develop a directional business case first?

Contact your AWS account team about AWS Migration Evaluator



Creating business cases on your own can be a time-consuming process and does not always identify the most cost-effective deployment and purchasing options. [Migration Evaluator](#) (Formerly TSO Logic) quickly provides a business case to make sound AWS planning and migration decisions. With Migration Evaluator, your organization gets access to AWS expertise, visibility into the costs associated with multiple migration strategies, and insights on how reusing existing software licensing reduces costs further.

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