

Take control of your AWS resources by learning how to automate, monitor, and optimize applications, networks and systems. You'll also learn how to implement enterprise governance and controls, centralize your operations management, and establish configuration management and auditing processes. This guide can also help prepare you for the AWS Certified SysOps Administrator – Associate certification exam. If you're interested specifically in digital courses and labs to help you develop these skills, explore the Systems Operator Learning Plan at [explore.skillbuilder.aws](https://explore.skillbuilder.aws). To provide suggestions on Ramp-Up Guides, please contact [rampupguides@amazon.com](mailto:rampupguides@amazon.com).

## Learn the fundamentals of AWS Cloud

Learning Resource	Duration	Type
AWS Ramp-Up Guide: Cloud Essentials		<a href="#">Ramp-Up Guide</a>

## Step 1: Dive deeper into AWS Cloud fundamentals, including AWS pricing and cost management

Learning Resource	Duration	Type
How AWS Pricing Works	3.5 hours	<a href="#">Whitepaper »</a>
Introduction to AWS Billing and Cost Management	10 minutes	<a href="#">Digital Training »</a>
AWS Shared Responsibility Model	5 minutes	<a href="#">Digital Training »</a>
How AWS Managed Services (AMS) Works Within Cloud Operating Models	15 minutes	<a href="#">Digital Training »</a>
Introduction to AWS Managed Services	20 minutes	<a href="#">Digital Training »</a>
AWS Technical Essentials	1 day	<a href="#">Classroom Training »</a>

## Step 2: Learn the prerequisites for effective cloud design and operations

Learning Resource	Duration	Type
AWS Well-Architected Framework	7 hours	<a href="#">Whitepaper »</a>
AWS Well-Architected Lenses (industry, and technology domain view)	10 minutes	<a href="#">Webpage »</a>
AWS Identity and Access Management - Architecture and Terminology (AWS Support), Digital	15 minutes	<a href="#">Digital Training »</a>
Introduction to Amazon Virtual Private Cloud (VPC)	10 minutes	<a href="#">Digital Training »</a>
Subnets, Gateways, and Route Tables Explained	20 minutes	<a href="#">Digital Training »</a>
Amazon Route 53 - Amazon Route 53 – Basics (Network Administrator focus)	20 minutes	<a href="#">Digital Training »</a>

Introduction to AWS Auto Scaling	10 minutes	<a href="#">Digital Training »</a>
Introduction to AWS Command Line Interface (CLI)	10 minutes	<a href="#">Digital Training »</a>
Amazon Virtual Private Cloud Connectivity Options (Network Administrator focus)	3 hours	<a href="#">Whitepaper »</a>

## Step 3: Build a foundation for cloud operations

Learning Resource	Duration	
Introduction to AWS Management Console	20 minutes	<a href="#">Digital Training »</a>
Deep Dive into Amazon Simple Storage Service (Amazon S3)	2.5 hours	<a href="#">Digital Training »</a>
Systems Operations on AWS	3 days	<a href="#">Classroom Training »</a>
Automating AWS Services with Scripting and the AWS CLI	75 minutes	<a href="#">Self-paced Lab »</a>
AWS Tools for Windows PowerShell: Getting Started	60 minutes	<a href="#">Self-paced Lab »</a>

## Step 4: Dive deeper into one or more focus areas (4.1 to 4.5).

### Step 4.1: Dive deeper into enterprise governance and control

Learning Resource	Duration	
AWS Account Structure Considerations	1.5 hours	<a href="#">Whitepaper »</a>
Introduction to AWS Organizations	10 minutes	<a href="#">Digital Training »</a>
Implementing your Landing Zone	50 minutes	<a href="#">Video »</a>
AWS Managed Services Console Walkthrough	15 minutes	<a href="#">Digital Training »</a>
AWS Managed Services (AMS): Provisioning	30 minutes	<a href="#">Digital Training »</a>
Using AWS Control Tower to Govern Multi-Account AWS Environments	45 minutes	<a href="#">Video »</a>

### Step 4.2: Dive deeper into monitoring and observability

Learning Resource	Duration	
Introduction to Amazon CloudWatch	10 minutes	<a href="#">Digital Training »</a>
Introduction to Amazon CloudWatch Logs	10 minutes	<a href="#">Digital Training »</a>
Introduction to Amazon CloudWatch Logs Insights	10 minutes	<a href="#">Digital Training »</a>
Collect Metrics and Logs from Amazon EC2 instances with the CloudWatch Agent	12 minutes	<a href="#">Video »</a>
CloudWatch Tutorials	2 hours	<a href="#">Tutorials »</a>
Monitoring Security Groups with Amazon CloudWatch Events	1 hour	<a href="#">Self-paced Lab »</a>

Using AWS Lambda with Amazon CloudWatch and SNS to Implement a Slack Chat Bot	55 mins	<a href="#">Self-paced Lab »</a>
Collecting and Analyzing Logs with Amazon CloudWatch Logs Insights	90 minutes	<a href="#">Self-paced Lab »</a>
Monitoring and Observability: One Observability Demo	3.5 hours	<a href="#">Workshop »</a>
Amazon EventBridge Overview and Integration with SaaS Applications	30 minutes	<a href="#">Digital Training »</a>
Introduction to AWS Trusted Advisor	10 minutes	<a href="#">Digital Training »</a>

## Step 4.3: Dive deeper into centralized operations management

Learning Resource	Duration	
AWS Systems Manager	190 minutes	<a href="#">Digital Training »</a>
AWS Inventory and Patch Management Well-Architected Lab	2 hours	<a href="#">Workshop »</a>
AWS Prescriptive Guidance - Backup and Recovery Approaches using AWS	3 hours	<a href="#">Whitepaper »</a>
CloudEndure Disaster Recovery Technical Training	90 minutes	<a href="#">Digital Training »</a>
Introduction to AWS OpsWorks Stacks	55 minutes	<a href="#">Self-paced Lab »</a>
AWS Systems Manager capabilities	2 hours	<a href="#">Lab »</a>

## Step 4.4: Dive deeper into configuration, compliance, and auditing

Learning Resource	Duration	
Introduction to AWS CloudTrail	10 minutes	<a href="#">Digital Training »</a>
Introduction to AWS Config	10 minutes	<a href="#">Digital Training »</a>
Enforce compliance with AWS Config	8 minutes	<a href="#">Video »</a>
Manage Software Licenses with AWS License Manager	7 minutes	<a href="#">Video »</a>
Monitoring security groups with AWS Config	1 hour	<a href="#">Self-paced Lab »</a>

## Step 4.5: Dive deeper into provisioning and orchestration

Learning Resource	Duration	
Infrastructure as Code	3 hours	<a href="#">Whitepaper »</a>
Introduction to AWS CloudFormation	10 minutes	<a href="#">Digital Training »</a>
Troubleshooting: AWS CloudFormation Stacks	30 minutes	<a href="#">Digital Training »</a>
Introduction to AWS CloudFormation Designer	40 minutes	<a href="#">Self-paced Lab »</a>
Creating an Amazon Virtual Private Cloud (VPC) with AWS CloudFormation	1 hour	<a href="#">Self-paced Lab »</a>
Introduction to AWS CloudFormation	45 minutes	<a href="#">Self-paced Lab »</a>

Launching and Managing a Web Application with AWS CloudFormation	2 hours	<a href="#">Self-paced Lab »</a>
Introduction to AWS Marketplace	10 minutes	<a href="#">Digital Training »</a>
Introduction to AWS Service Catalog	10 minutes	<a href="#">Digital Training »</a>
Build VPC, S3, EC2, and RDS Products with AWS Service Catalog	2 hours	<a href="#">Self-paced Lab »</a>

## Step 5: Synthesize learning with the help of labs and workshop

Learning Resource	Duration	
Deploy a reliable multi-tier infrastructure using CloudFormation	4 hours	<a href="#">Workshop »</a>
Introduction to AWS Identity and Access Management (IAM)	25 mins	<a href="#">Self-paced Lab »</a>
Automating AWS Services with Scripting and the AWS CLI	75 mins	<a href="#">Self-paced Lab »</a>
Launching and Managing a Web Application with AWS CloudFormation	50 mins	<a href="#">Self-paced Lab »</a>
AWS Federated Authentication with AD FS	2 hours	<a href="#">Self-paced Lab »</a>

## Step 6: Prepare for, and take the AWS Certified SysOps Administrator-Associate certification

Learning Resource	Duration	
Exam Prep: AWS Certified SysOps Administrator - Associate		<a href="#">Digital Training »</a>
AWS Certified SysOps Administrator – Associate exam	2 hours	<a href="#">Exam »</a>

## Explore additional resources

Learning Resource	Description	
Learning Library	Continue to learn by exploring our extensive portfolio of free Training and Training. Filter according to your preferences, or find a specific course using the “Search” box.	<a href="#">Explore »</a>
AWS Whitepapers & Guides	Explore technical whitepapers, technical guides, reference material, and reference architecture diagrams, all authored by AWS and the AWS community.	<a href="#">Explore »</a>
AWS User Group	Join and connect with AWS users all over the world to share ideas and learn.	<a href="#">Explore »</a>
AWS Events & Webinars	Connect with, collaborate with, and learn from AWS experts. Key events include AWS.	<a href="#">Explore »</a>

AWS Podcast	Listen and learn about AWS.	<a href="#">Explore »</a>
AWS Blog	Read about the latest launches from AWS Technical Evangelist Jeff Barr and others.	<a href="#">Explore »</a>
AWS Documentation	Search for AWS service guides, API references, tutorials, projects, SDKs, and toolkits.	<a href="#">Explore »</a>
AWS Knowledge Center	Review AWS Support's responses to AWS customers' most frequently asked questions.	<a href="#">Explore »</a>
AWS FAQs	Find answers to product- and technical-related frequently asked questions.	<a href="#">Explore »</a>
AWS Hands-On Tutorials	Get started with 10-minute, step-by-step tutorials to launch your first application.	<a href="#">Explore »</a>
AWS Solutions Library	Use vetted, technical reference implementations designed to help you solve common problems and build faster.	<a href="#">Explore »</a>
AWS YouTube Channel	Explore a wide variety of AWS topics by watching videos created by AWS experts across the world.	<a href="#">Explore »</a>

**For a training plan customized for your requirements,** contact your AWS Account Manager or contact us [here](#)

**We would love to hear from you.** Provide your feedback on this AWS Ramp-Up Guide [here](#)