AWS Ramp-Up Guide: Solutions Architect

For AWS Cloud architects, solutions architects, and engineers

These are the most salient learning resources from our classrooms, digital curricula, video library, and AWS Lab Environment, that relate to the preparing for a Solutions Architect Role. This guide is not intended to be consumed entirely. Different sections tackle different objectives. Some resources will be less relevant to you today.   The guide will help you decide where you want to start your learning journey, and which step should be your next.

Share your opinion of this Ramp-Up Guide with us!

Learn the Fundamentals of the AWS Cloud

Learning Resource		Type
AWS Ramp-Up Guide: Cloud Essentials		Ramp-Up Guide

Identity and Security

	Learning Resource	Duration (*hrs*)	Type
	Introduction to AWS Identity and Access Management (IAM)	0.1	Digital Training
$	Introduction to AWS Identity and Access Management (IAM)	0.8	Self-Paced Lab
	Getting Started with AWS Security, Identity, and Compliance	3.0	Digital Training
$	Performing a Basic Audit of your AWS Environment	1.0	Self-Paced Lab
$	Introduction to AWS Key Management Service	1.0	Self-Paced Lab

Compute and Storage

	Learning Resource	Duration (*hrs*)	Type
	AWS Compute Services Overview	0.7	Digital Training
	Getting Started with AWS Storage	3.3	Digital Training
	Getting Started with Amazon Simple Storage Service (Amazon S3)	1.0	Digital Training
$	Introduction to Amazon Simple Storage Service (S3)	1.0	Self-Paced Lab
	Amazon Elastic Block Store (Amazon EBS) Primer	1.5	Digital Training
	AWS Database Offerings	4.0	Digital Training
	Troubleshooting: Amazon DynamoDB	0.8	Digital Training
	Amazon RDS Service Primer	0.3	Digital Training

Networking

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Learning Resource	Duration (*hrs*)	Type
AWS Networking Basics	2.0	Digital Training
Subnets, Gateways, and Route Tables Explained	0.3	Digital Training
$ Building Your First Amazon Virtual Private Cloud (VPC)	1.0	Self-Paced Lab
$ Introduction to Elastic Load Balancing	1.0	Self-Paced Lab
Amazon Route 53 - Amazon Route 53 - Basics	0.3	Digital Training
Configuring and Deploying VPCs with Multiple Subnets	1.0	Digital Training
Introduction to Amazon API Gateway	0.2	Digital Training
AWS Network Connectivity Options	1.5	Digital Training
$ Comparing VPC Peering and AWS Transit Gateway	3.0	Self-Paced Lab
Understanding AWS Networking Gateways	0.5	Digital Training
Differences Between Security Groups and NACLs	0.1	Digital Training
$ Configuring and Deploying Amazon VPC for a 3-tier Web App	1.5	Self-Paced Lab

Monitoring and Governance

Learning Resource	Duration (*hrs*)	Type
AWS Network – Monitoring and Troubleshooting	1.0	Digital Training
Getting Started with AWS CloudFormation	0.3	Digital Training
$ Launching and Managing a Web Application with AWS CloudFormation	1.3	Self-Paced Lab
AWS Well-Architected	1.5	Digital Training
AWS Well-Architected Considerations for Financial Services	0.8	Digital Training

Serverless

Learning Resource	Duration (*hrs*)	Type
AWS Lambda Foundations	2.0	Digital Training
$ Deploying Your First AWS Lambda Container	1.0	Self-Paced Lab
Architecting Serverless Applications	2.0	Digital Training
Scaling Serverless Architectures	1.5	Digital Training

Container and Migration

Learning Resource	Duration (*hrs*)	Type
Amazon Elastic Container Service (ECS) Primer	0.5	Digital Training
Introduction to Database Migration	0.8	Digital Training

Cost Management		
Learning Resource	**Duration (*hrs*)**	**Type**
AWS Foundations: Cost Management	0.6	Digital Training
Amazon Simple Storage Service (Amazon S3) Cost Optimization	7.0	Digital Training
Deep Dive: Amazon Elastic Block Store (Amazon EBS) Cost Optimization	0.5	Digital Training

Take the AWS Certified Solutions Architect - Associate Exam		
Learning Resource	**Duration (*hrs*)**	**Type**
$ Architecting on AWS	18.0	Classroom Training
$ Architecting on AWS (Digital)	18.0	Digital Classroom Training

Advanced Curriculum		
Learning Resource	**Duration (*hrs*)**	**Type**
AWS Storage Gateway Deep Dive: Volume Gateway	1.3	Digital Training
AWS Storage Gateway Deep Dive: Amazon S3 File Gateway	1.1	Digital Training
Introduction to Step Functions	0.6	Digital Training
Migration Evaluator Overview for Customers	0.5	Digital Training
$ Migrating to AWS: Lift and Shift to Serverless	1.0	Self-Paced Lab
AWS Backup Primer	1.2	Digital Training
$ Implementing Multi-Region Backup with Amazon S3 Cross-Region	1.0	Self-Paced Lab
AWS Systems Manager	3.0	Digital Training
$ Processing App Microservice Messages with Containers	1.0	Self-Paced Lab
$ Auditing Your Security with AWS Trusted Advisor	1.5	Self-Paced Lab
$ AWS Federated Authentication with AD FS	1.0	Self-Paced Lab
$ Working with Amazon CloudFront for Dynamic Content Acceleration	2.0	Self-Paced Lab
Deep Dive with Security: AWS Identity and Access Management (IAM)	8.0	Digital Training

	Learning Resource	Duration (hrs)	Type
	Securing and Protecting Your Data in Amazon Simple Storage Service	1.6	[Digital Training](#)
	Protecting Your Instance with Security Groups	0.1	[Digital Training](#)
$	Update Security Groups Automatically Using AWS Lambda	1.0	[Self-Paced Lab](#)
$	Scale Your Security Vulnerability Testing with Amazon Inspector	0.5	[Self-Paced Lab](#)
$	Rogue Permissions Challenge	1.0	[Self-Paced Lab](#)
$	Role Assumption Challenge	2.0	[Self-Paced Lab](#)
$	Filtering and Blocking Web Incursions with AWS WAF	1.0	[Self-Paced Lab](#)
$	Using Data Encryption in AWS	1.0	[Self-Paced Lab](#)
	Earn a Solutions Architect Learning Badge		[Learning Plan](#)

Game-based Learning

	Learning Resource	Duration (hrs)	Type
$	AWS Cloud Quest: Solutions Architect	12+	[Game-based Learning](#)

Take the AWS Certified Solutions Architect - Professional Exam

	Learning Resource	Duration (hrs)	Type
$	Advanced Architecting on AWS	18.0	[Instructor-led Training](#)
	Exam Readiness: AWS Certified Solutions Architect – Professional	4.0	[Exam Prep](#)

With Our Training Partners

	Learning Resource	Duration (hrs)	Type
$	Architecting Solutions on AWS	20.0	[Coursera Digital Training](#)
$	Architecting Solutions on AWS	20.0	[edX Digital Training](#)

Additional Resources

	Learning Resource	Type
	AWS Well-Architected	[Webpage](#)
	Shared Responsibility Model	[Webpage](#)
	Best Practices for Security, Identity, & Compliance	[Webpage](#)
	AWS Security Best Practices	[Blogs](#)

AWS Architecture Center	Webpage
AWS CLI Introduction	Video
Well-Architected Labs	Lab
AWS Certified Solutions Architect - Associate	Webpage
Sample CloudFormation Templates	Webpage
Best Practices for Building Amazon Machine Images (AMIs)	Webpage
AWS Elastic Disaster Recovery	Webpage
Serverless Architectural Patterns and Best Practices (from AWS re:Invent)	Video

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