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!

Identity and Security

Learning Resource		Duration (*hrs*)	Type
Introduction to AWS Identity and Access Management (IAM)	Fundamental	0.1	Digital Training
$ Introduction to AWS Identity and Access Management (IAM)	Fundamental	0.8	Self-Paced Lab
AWS Security Fundamentals Second Edition	Fundamental	2.0	Digital Training
$ Performing a Basic Audit of your AWS Environment	Fundamental	1.0	Self-Paced Lab
$ Introduction to AWS Key Management Service	Fundamental	1.0	Self-Paced Lab

Compute and Storage

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

Networking

Learning Resource		Duration (*hrs*)	Type
AWS Networking Basics	Fundamental	2.0	Digital Training
Subnets, Gateways, and Route Tables Explained	Fundamental	0.3	Digital Training
$ Building Your First Amazon Virtual Private Cloud (VPC)	Fundamental	1.0	Self-Paced Lab
$ Introduction to Elastic Load Balancing	Fundamental	1.0	Self-Paced Lab

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	Learning Resource		Duration (hrs)	Type
	Configuring and Deploying VPCs with Multiple Subnets	Intermediate	1.0	Digital Training
	Introduction to Amazon API Gateway	Fundamental	0.2	Digital Training
	AWS Network Connectivity Options	Intermediate	1.5	Digital Training
$	Comparing VPC Peering and AWS Transit Gateway	Intermediate	3.0	Self-Paced Lab
	Understanding AWS Networking Gateways	Intermediate	0.5	Digital Training
	Differences Between Security Groups and NACLs	Fundamental	0.1	Digital Training
$	Configuring and Deploying Amazon VPC for a 3-tier Web App	Intermediate	1.5	Self-Paced Lab

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

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

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

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

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	Learning Resource		Duration (hrs)	Type
$	Architecting on AWS (Digital)	Intermediate	18.0	[Digital Classroom Training](#)

Advanced Curriculum

	Learning Resource		Duration (hrs)	Type
	AWS Storage Gateway Deep Dive: Volume Gateway	Advanced	1.3	[Digital Training](#)
	AWS Storage Gateway Deep Dive: Amazon S3 File Gateway	Advanced	1.1	[Digital Training](#)
	Introduction to Step Functions	Fundamental	0.6	[Digital Training](#)
$	Migrating to AWS: Lift and Shift to Serverless	Advanced	1.0	[Self-Paced Lab](#)
	AWS Backup Primer	Intermediate	1.2	[Digital Training](#)
$	Implementing Multi-Region Backup with Amazon S3 Cross-Region	Advanced	1.0	[Self-Paced Lab](#)
$	Processing App Microservice Messages with Containers	Intermediate	1.0	[Self-Paced Lab](#)
$	Auditing Your Security with AWS Trusted Advisor	Intermediate	1.5	[Self-Paced Lab](#)
$	AWS Federated Authentication with AD FS	Intermediate	1.0	[Self-Paced Lab](#)
$	Working with Amazon CloudFront for Dynamic Content Acceleration	Intermediate	2.0	[Self-Paced Lab](#)
	Deep Dive with Security: AWS Identity and Access Management (IAM)	Advanced	8.0	[Digital Training](#)
	Securing and Protecting Your Data in Amazon Simple Storage Service	Advanced	1.6	[Digital Training](#)
	Protecting Your Instance with Security Groups	Fundamental	0.1	[Digital Training](#)
$	Update Security Groups Automatically Using AWS Lambda	Intermediate	1.0	[Self-Paced Lab](#)
$	Scale Your Security Vulnerability Testing with Amazon Inspector	Intermediate	0.5	[Self-Paced Lab](#)
$	Role Assumption Challenge	Advanced	2.0	[Self-Paced Lab](#)
$	Filtering and Blocking Web Incursions with AWS WAF	Intermediate	1.0	[Self-Paced Lab](#)
$	Using Data Encryption in AWS	Advanced	1.0	[Self-Paced Lab](#)
	Earn a Solutions Architect Learning Badge			[Learning Plan](#)

With Our Training Partners

	Learning Resource		Duration (hrs)	Type
$	Architecting Solutions on AWS	Intermediate	20.0	[Coursera Digital Training](#)
$	Architecting Solutions on AWS	Intermediate	20.0	[edX Digital Training](#)
$	Capstone: Following the AWS Well Architected Framework	Fundamental	11.0	[Coursera Digital Training](#)
$	Serverless Architectures on AWS	Fundamental	10.0	[Coursera Digital Training](#)

	Learning Resource		Duration (*hrs*)	Type
$	Serverless Architectures on AWS	Fundamental	11.0	[edX Digital Training](#)
$	Building Data Lakes on AWS	Fundamental	11.0	[Coursera Digital Training](#)

Game-based Learning

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

Twitch On-demand Broadcasts

	Learning Resource		Duration (*hrs*)	Type
	AWS Cloud Quest: Architecting (Twitch training)		1.5	[On-demand Stream](#)
	AWS Power Hour: Architecting – Associate (Exam Prep)		1.5	[On-demand Stream](#)
	AWS Power Hour: Architecting – Professional (Exam Prep)		1.5	[On-demand Stream](#)

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](#)

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](#)

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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