

AWS Academy Cloud Architecting Module 15 Student Guide Version 2.0.5 200-ACACAD-20-EN-SG

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Module 15: Bridging to Certification

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Welcome to Module 15: Bridging to Certification.

Module overview



Sections

- 1. Certification exam resources
- 2. Additional resources



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This module includes the following sections:

- 1. Certification exam resources
- 2. Additional resources

Module objectives



At the end of this module, you should be able to:

- Identify how to prepare for the AWS Certified Solutions Architect Associate exam
- Identify where to find resources

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At the end of this module, you should be able to:

- Identify how to prepare for the AWS Certified Solutions Architect Associate exam
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Introducing Section 1: Certification exam resources.

Certification exam domain 1 objectives



Domain 1: Design Resilient Architectures (30%)

- 1.1 Design a multi-tier architecture solution
- 1.2 Design highly available and/or fault-tolerant architectures
- 1.3 Design decoupling mechanisms using AWS services
- 1.4 Choose appropriate resilient storage



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Domain 1 of the AWS Certified Solutions Architect - Associate examination is *Design Resilient*

- 1.1 Design a multi-tier architecture solution
- 1.2 Design highly available and/or fault-tolerant architectures

Architectures. It is 30 percent of the exam and covers the following objectives:

- 1.3 Design decoupling mechanisms using AWS services
- 1.4 Choose appropriate resilient storage

Certification exam domain 2 objectives



Domain 2: Design High-Performing Architectures (28%)

- 2.1 Identify elastic and scalable compute solutions for a workload
- 2.2 Select high-performing and scalable storage solutions for a workload
- 2.3 Select high-performing networking solutions for a workload
- 2.4 Choose high-performing database solutions for a workload



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Domain 2 of the AWS Certified Solutions Architect - Associate examination is *Design High-Performing Architectures*. It is 28 percent of the exam and covers the following objectives:

- 2.1 Identify elastic and scalable compute solutions for a workload
- 2.2 Select high-performing and scalable storage solutions for a workload
- 2.3 Select high-performing networking solutions for a workload
- 2.4 Choose high-performing database solutions for a workload

Certification exam domain 3 objectives



Domain 3: Design Secure Applications and Architectures (24%)

- 3.1 Design secure access to AWS resources
- 3.2 Design secure application tiers
- 3.3 Select appropriate data security options



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Domain 3 of the AWS Certified Solutions Architect - Associate examination is *Design Secure Applications and Architectures*. It is 24 percent of the exam and covers the following objectives:

- 3.1 Design secure access to AWS resources
- 3.2 Design secure application tiers
- 3.3 Select appropriate data security options

Certification exam domain 4 objectives



Domain 4: Design Cost-Optimized Architectures (18%)

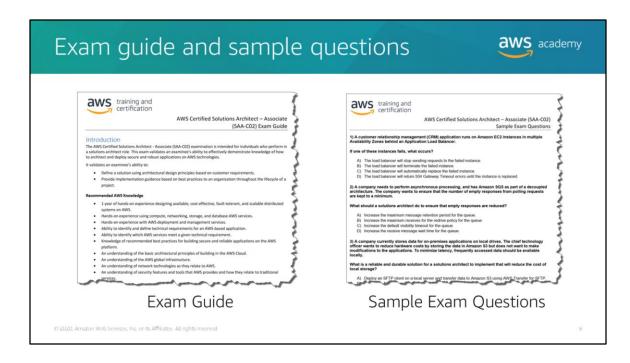
- 4.1 Identify cost-effective storage solutions
- 4.2 Identify cost-effective compute and database services
- 4.3 Design cost-optimized network architectures



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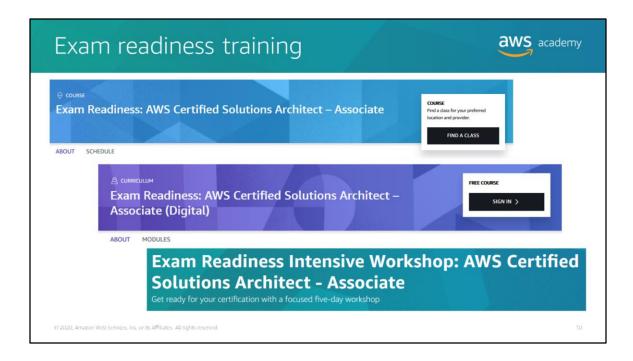
Domain 4 of the AWS Certified Solutions Architect - Associate examination is *Design Cost-Optimized Architectures*. It is 18 percent of the exam and covers the following objectives:

- 4.1 Identify cost-effective storage solutions
- 4.2 Identify cost-effective compute and database services
- 4.3 Design cost-optimized network architectures



Review the <u>Exam Guide</u>, which contains the content outline and target audience for the certification exam.

Perform a self-assessment to identify your knowledge or skills gaps. AWS offers <u>Sample Exam</u> <u>Questions</u> for the AWS Certified Solutions Architect - Associate exam.



AWS also offers Exam Readiness: AWS Certified Solutions Architect - Associate training in classroom and free digital training formats. This training helps you prepare for the AWS certification exam. AWS develops the training so that the content is current with the newest best practices. The training teaches you how to interpret exam questions and allocate your study time. It also reviews sample exam questions in each topic area. It teaches you how to interpret the concepts that are tested so that you can more easily eliminate incorrect responses.

There is also a 5-day, instructor-led <u>Exam Readiness Intensive Workshop</u> that can help you prepare for the exam.

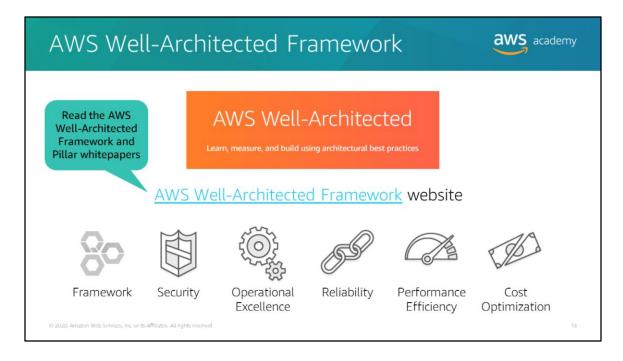


When you are ready, you can register to take a practice exam at <u>AWS Training</u>. The practice exam supplements the exam guide and helps you test your knowledge before you take the final exam.



It's a good idea to broaden your technical understanding by reading whitepapers and other technical content. AWS, independent analysts, and AWS Partner Network (APN) Partners create many of these helpful resources.

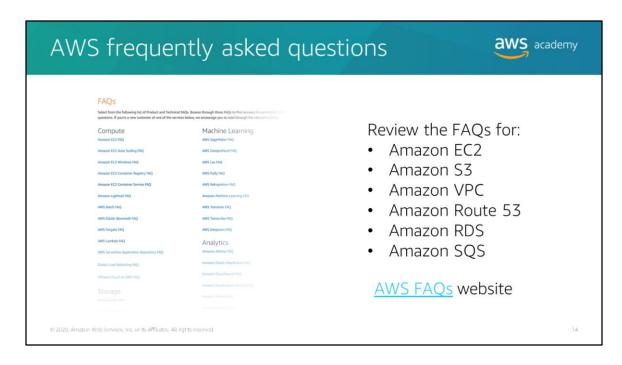
You can find whitepapers, technical guides, reference material, and architecture diagrams on the <u>AWS Whitepapers & Guides</u> website.



To prepare for the AWS Certified Solutions Architect - Associate exam, focus on reading the whitepapers for the AWS Well-Architected Framework and each of the Pillars:

- Framework
- Security Pillar
- Operational Excellence Pillar
- Reliability Pillar
- Performance Efficiency Pillar
- Cost Optimization Pillar

You can also find links to these whitepapers on the <u>AWS Well-Architected website</u>, as well as other resources.



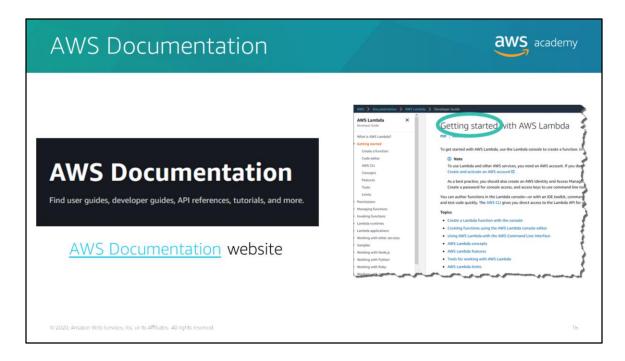
Browse the <u>product and technical frequently asked questions (FAQs)</u> to familiarize yourself with commonly raised questions and issues.

Be sure to review the following FAQs:

- Amazon Elastic Compute Cloud (Amazon EC2)
- Amazon Simple Storage Service (Amazon S3)
- Amazon Virtual Private Cloud (Amazon VPC)
- Amazon Route 53
- Amazon Relational Database Service (Amazon RDS)
- Amazon Simple Queue Service (Amazon SQS)

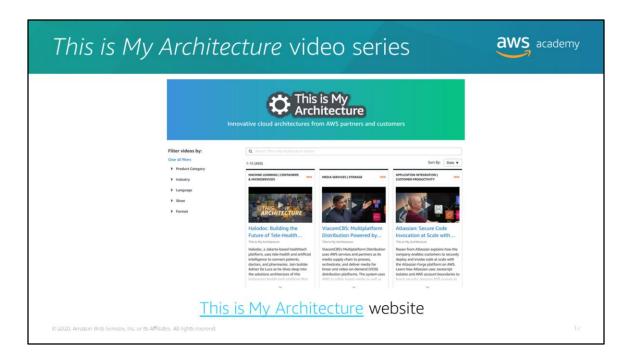


Introducing Section 2: Additional resources.

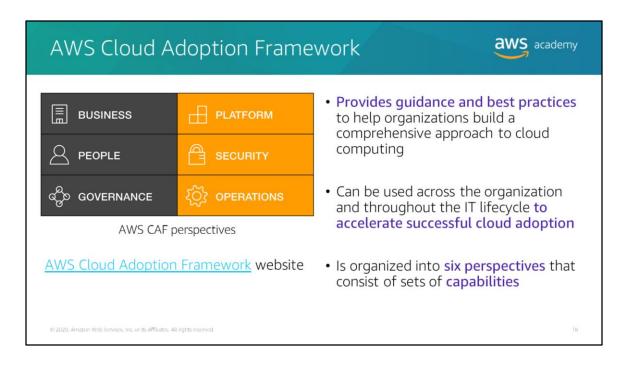


You can find user guides, developer guides, API references, tutorials and projects, SDKs and toolkits, and various other general resources in the <u>AWS Documentation</u>.

The AWS service developer guides contain a *Getting started* section with step-by-step tutorials that can help familiarize you with the services.



<u>This is My Architecture</u> is a video series that can help you learn about the innovative cloud architectures that APN Partners and customers have built.



Each organization's cloud adoption journey is unique. However, for any organization to successfully migrate its IT portfolio to the cloud, three elements (people, process, and technology) must be in alignment. Business and technology leaders in an organization must understand the organization's current state, target state, and the transition necessary to achieve the target state. In this way, they can set goals and create processes for staff.

The AWS Cloud Adoption Framework (<u>AWS CAF</u>) provides guidance and best practices to help organizations identify gaps in skills and processes. It also helps organizations build a comprehensive approach to cloud computing—both across the organization and throughout the IT lifecycle—to accelerate successful cloud adoption.

At the highest level, the AWS CAF organizes guidance into six areas of focus, called *perspectives*. Perspectives span people, processes, and technology. Each perspective consists of a set of *capabilities*, which covers distinct responsibilities that functionally related stakeholders own or manage.

Capabilities within each perspective are used to identify which areas of an organization require attention. By identifying gaps, prescriptive work streams can be created that support a successful cloud journey.



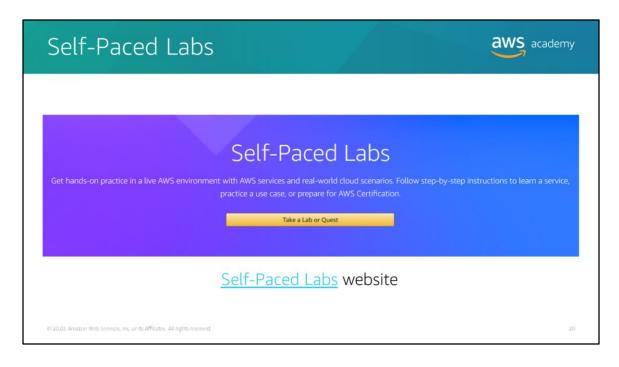


There's no substitute for hands-on experience.

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When you are preparing for the AWS Certification exam, it's important to remember that hands-on experience has no substitute. Before you take an AWS Certification exam, AWS recommends that you have hands-on experience with relevant AWS products and services. AWS offers various resources to help you gain hands-on experience with AWS services.

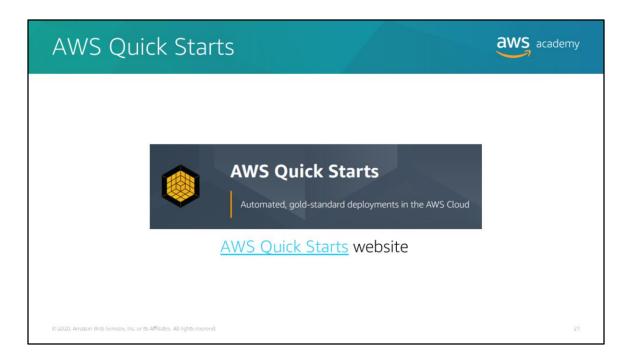


Self-paced labs are a way for you to get hands-on practice with AWS services and real world-cloud scenarios in a live AWS environment.

You can:

- Take an individual lab to get familiar with an AWS service.
- Follow a learning quest that will lead you through a sequence of labs so that you can learn
 how to work with related AWS services. When you complete a quest, you will earn a
 Quest Badge that you can display on your resume, website, or LinkedIn profile.

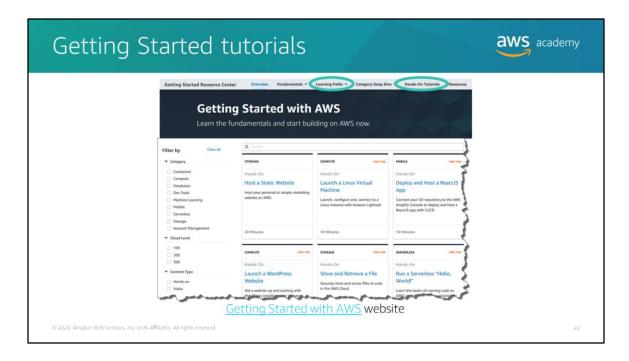
For more information about self-paced labs, see the <u>Self-Paced Labs</u> website.



AWS solutions architects and partners build Quick Starts to help you deploy popular technologies on AWS. These technologies are based on AWS best practices for security and high availability. These accelerators reduce hundreds of manual procedures into a few steps, so you can build your production environment quickly and start to use it immediately.

Each Quick Start includes AWS CloudFormation templates that automate the deployment and a guide that discusses the architecture and provides step-by-step deployment instructions.

For more information, see **AWS Quick Starts**.



<u>Getting Started hands-on tutorials and learning paths</u> help you learn the fundamentals of AWS and start building on AWS right away.



It's now time to review the module.

Module summary



In summary, in this module, you learned how to:

- Identify how to prepare for the AWS Certified Solutions Architect Associate exam
- Identify where to find resources

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Thank you for completing this module.