AWS Certified Solutions Architect - Associate

About
DevOpsSchool

DevOpsSchool is a unit of "Cotocus PVT ltd" and a leading platform which helps IT organizations and professionals to learn all the emerging technologies and trend which helps them to learn and embrace all the skills, intelligence, innovation and transformation which requires to achieve the end result, quickly and efficiently. We provide over 40 specialized programs on DevOps, Cloud, Containers, Security, AI, ML and on Big data that are focused on industry requirement and each curriculum is developed and delivered by leading experts in each domain and aligned with the industry standards.

About Course

If you are looking for top/best AWS certification course online to start your career then you are landed to the right place.

DevOpsScool is one of the top online institute for AWS training and certification Program in top cities of India like Hyderabad, Bangalore, Pune and more. We offer you both AWS Certified Solutions Architect – Associate and Professional level Certification training program in online and offline classroom mode. This AWS certification Training Program is especially designed for beginners to learn AWS from scratch to an advanced level. This course give you the practical knowledge, skills, and confidence to start your career as an AWS Certified Solutions Architect – Associate.

AWS certification are one of the top most demanding in this current era. This training by top experts/trainers covering all the important topics required and related to course, Alarms and many more. Our Top experts/trainers are always there for support and ready to clarify all your doubts and questions throughout the training. Our Institute have multiples of AWS training and certification venue in top cities of India like Bangalore, Hyderabad and globally as well.

With this interesting set of learnings and practical, I look forward to seeing you in this course.

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Duration	40 Hours
Mode	Online (Instructor-led, live & Interactive)
Projects (Real time scenario based)	1

FEATURES	DEVOPSSCHOOL	OTHERS
Faculty Profile Check	✔	✖
Lifetime Technical Support	✔	✖
Lifetime LMS access	✔	✖
Top 25 Tools	✔	✖
Interviews Kit	✔	✖
Training Notes	✔	✖
Step by Step Web Based Tutorials	✔	✖
Training Slides	✔	✖
Training + Additional Videos	✔	✖

Projects

In AWS Course a Participant will get total 100+ Lab Assignment, real time scenario based projects to work on, and 250+ real-time interview questions, as part of these projects, we would help our participant to have first hand experience of real time scenario based software project development planning, coding, deployment, setup and monitoring in production from scratch to end. We would also help our participants to visualize a real development environment, testing environment and production environments.

Interview

As part of this, You would be given complete interview preparations kit, set to be ready for the AWS hotseat. This kit has been crafted by 200+ years industry experience and the experiences of nearly 10000 DevOpsSchool Awslearners worldwide.

AGENDA OF THE AWS CERTIFIED SOLUTION ARCHITECT PROFESSIONAL

Domain 1: Design Resilient Architectures

1.1 Design a multi-tier architecture solution

- Determine a solution design based on access patterns.
- Determine a scaling strategy for components used in a design.
- Select an appropriate database based on requirements.
- Select an appropriate compute and storage service based on requirements

1.2 Design highly available and/or fault-tolerant architectures

- Determine the amount of resources needed to provide a fault-tolerant architecture across
- Availability Zones.
- Select a highly available configuration to mitigate single points of failure.
- Apply AWS services to improve the reliability of legacy applications when application changes are not possible.
- Select an appropriate disaster recovery strategy to meet business requirements.
- Identify key performance indicators to ensure the high availability of the solution.

1.3 Design decoupling mechanisms using AWS services

- Determine which AWS services can be leveraged to achieve loose coupling of components.
- Determine when to leverage serverless technologies to enable decoupling.

1.4 Choose appropriate resilient storage

- Define a strategy to ensure the durability of data.
- Identify how data service consistency will affect the operation of the application.
- Select data services that will meet the access requirements of the application.
- Identify storage services that can be used with hybrid or non-cloud-native applications.

Domain 2: Design High-Performing Architectures

2.1 Identify elastic and scalable compute solutions for a workload

- Select the appropriate instance(s) based on compute, storage, and networking requirements.
- Choose the appropriate architecture and services that scale to meet performance
- requirements.
- Identify metrics to monitor the performance of the solution.

2.2 Select high-performing and scalable storage solutions for a workload

- Select a storage service and configuration that meets performance demands.
- Determine storage services that can scale to accommodate future needs.

2.3 Select high-performing networking solutions for a workload

- Select appropriate AWS connectivity options to meet performance demands.
- Select appropriate features to optimize connectivity to AWS public services.
- Determine an edge caching strategy to provide performance benefits.
- Select appropriate data transfer service for migration and/or ingestion.

2.4 Choose high-performing database solutions for a workload

- Select an appropriate database scaling strategy.
- Determine when database caching is required for performance improvement.
- Choose a suitable database service to meet performance needs.

Domain 3: Design Secure Applications and Architectures

3.1 Design secure access to AWS resources

- Determine when to choose between users, groups, and roles.
- Interpret the net effect of a given access policy.
- Select appropriate techniques to secure a root account.
- Determine ways to secure credentials using features of AWS IAM.
- Determine the secure method for an application to access AWS APIs.
- Select appropriate services to create traceability for access to AWS resources.

3.2 Design secure application tiers

- Given traffic control requirements, determine when and how to use security groups and
- network ACLs.
- Determine a network segmentation strategy using public and private subnets.
- Select the appropriate routing mechanism to securely access AWS service endpoints or
- internet-based resources from Amazon VPC.
- Select appropriate AWS services to protect applications from external threats.

3.3 Select appropriate data security options

- Determine the policies that need to be applied to objects based on access patterns.
- Select appropriate encryption options for data at rest and in transit for AWS services.
- Select appropriate key management options based on requirements

Domain 4: Design Cost-Optimized Architectures

4.1 Identify cost-effective storage solutions

- Determine the most cost-effective data storage options based on requirements.
- Apply automated processes to ensure that data over time is stored on storage tiers that minimize costs.

4.2 Identify cost-effective compute and database services

- Determine the most cost-effective Amazon EC2 billing options for each aspect of the workload.
- Determine the most cost-effective database options based on requirements.
- Select appropriate scaling strategies from a cost perspective.
- Select and size compute resources that are optimally suited for the workload.
- Determine options to minimize total cost of ownership (TCO) through managed services and serverless architectures.

4.3 Design cost-optimized network architectures

- Identify when content delivery can be used to reduce costs.
- Determine strategies to reduce data transfer costs within AWS.
- Determine the most cost-effective connectivity options between AWS and on-premises
- environments.

Thank you!

Connect with us for more info

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