

AWS CERTIFIED DevOps ENGINEER – PROFESSIONAL (DOP-C02)

The AWS Certified DevOps Engineer – Professional (DOP-C02) exam is intended for individuals who perform a DevOps engineer role. The exam validates a candidate's technical expertise in provisioning, operating, and managing distributed systems and services on AWS.

مروری بر دوره

The AWS Certified DevOps Engineer – Professional (DOP-C02) exam is intended for individuals who perform a DevOps engineer role. The exam validates a candidate's technical expertise in provisioning, operating, and managing distributed systems and services on AWS.

The exam also validates a candidate's ability to complete the following tasks:

- Implement and manage continuous delivery systems and methodologies on AWS.
- Implement and automate security controls, governance processes, and compliance validation.
- Define and deploy monitoring, metrics, and logging systems on AWS.
- Implement systems that are highly available, scalable, and self-healing on AWS.
- Design, manage, and maintain tools to automate operational processes.

آنچه خواهید آموخت

Target candidate description

The target candidate should have 2 or more years of experience in provisioning, operating, and managing AWS environments. The target candidate also has experience with the software development lifecycle and programming and/or scripting.

Recommended general IT knowledge and experience

The target candidate should have the following experience:

- Experience in building highly automated infrastructure
- Experience in administering operating systems
- Experience with modern development and operations processes and methodologies Recommended AWS knowledge and experience The target candidate should have experience in securing AWS infrastructure.

🌐 info@gandotech.com

📍 Lisbon, Sintra, Mirante St, No3, 2/C

☎ +351 911970800

✉ P.Code: 27 45-039



Job tasks that are out of scope for the target candidate

The following list contains job tasks that the target candidate is not expected to be able to perform. This list is non-exhaustive. These tasks are out of scope for the exam:

- Possess advanced networking knowledge (for example, advanced routing algorithms, failover techniques).
- Provide deep-level security recommendations to developers.
- Design, query, and optimize the performance of databases.
- Develop full-stack application code. Refer to the Appendix for a list of technologies and concepts that might appear on the exam and a list of in-scope AWS services and features.

سرفصل ها

Domain 1: Code, Build, and Test

Domain 2: Release and Deploy

Domain 3: Operate and Monitor

Code, Build, and Test

Thinking in DevOps

AWS CodeCommit

AWS CodeBuild

Branching Strategies

The Test

Automate Testing

Continuous Integration

Build the Pipeline

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Automate the SAM Deploy

Release and Deploy

Deployment Strategies for Virtual Machines

Deployment Strategies for Serverless

Deploying to Compute

Understanding the Appspec File

Preparing to use CodeDeploy

CodeDeploy in a Pipeline

Infrastructure as Code

Abstracting IaC on AWS

Troubleshooting AWS CloudFormation

Building a Pipeline with CloudFormation

Operate and Monitor

Why Monitoring?

Adding Instruments to the Cloud Environment

The Importance of Monitoring on CI/CD, and AWS Services Used Towards It

Activity and Administrative API Monitoring into the AWS Environment

Network Monitoring

Monitoring Pipeline Changes

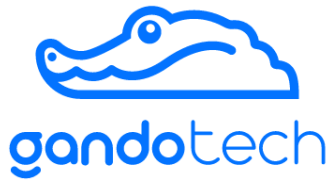
The Importance of Operation in CI/CD Pipelines

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How to Prevent Hiccups at the End of the Infinite Loop

AWS Systems Manager

🌐 info@gandotech.com

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