

CLOUD

ADVANCED

4 DAYS

AWS DevOps Engineer Professional

Build a strong foundation in AWS DevOps architecture, tools, and best practices to design, secure, and operate modern cloud environments. Learn core DevOps principles while preparing for the AWS DevOps Engineer Professional certification through exam focused guidance and practical insights.

Why AWS DevOps Professional?

Improved Efficiency and Agility

The certification enables businesses to adopt DevOps practices to increase the efficiency and agility of their development and deployment processes. This leads to faster time-to-market and increased business agility.

Cost Optimization

The certification helps businesses to optimize their AWS infrastructure costs by leveraging AWS services and tools. This leads to significant cost savings and enables businesses to allocate their resources effectively.

Enhanced Security and Compliance

The certification covers security and compliance best practices for AWS environments, enabling businesses to implement robust security measures to protect their applications and data from potential cyber threats.

What you'll be able to do

- ✓ Gain a thorough understanding of the AWS architecture, including its key components and services.
- ✓ Gain a deep understanding of DevOps principles and practices.
- ✓ Gain a solid understanding of AWS security and compliance best practices.
- ✓ Gain a thorough understanding of AWS services and tools.
- ✓ Prepare learners for the AWS Certified Professional DevOps Engineer certification exam by providing them with practice exams, exam tips, and strategies for passing the exam.

Who this is for

- Any candidate who has 2 or more years of experience in provisioning, operating, and managing AWS environments.
- Any candidate who has experience with the software development lifecycle and Programming and/or Scripting
- AWS Certified SysOps Administrators and Developers who are planning to take the AWS DevOps Engineer Professional exam
- Professionals who want to deepen their knowledge of AWS System Administrators

Curriculum

01 SDLC Automation

- Implement CI/CD pipelines
- Integrate automated testing into CI/CD pipelines
- Build and manage artifacts
- Implement deployment strategies for instance, container, and serverless environments

02 Configuration Management and IaC

- Define cloud infrastructure and reusable components to provision and manage systems throughout their lifecycle
- Deploy automation to create, onboard, and secure AWS accounts in a multi-account/multi-Region environment
- Design and build automated solutions for complex tasks and large-scale environments

03 Resilient Cloud Solutions

- Implement highly available solutions to meet resilience and business requirements
- Implement solutions that are scalable to meet business requirements
- Implement automated recovery processes to meet RTO/RPO requirements

04 Monitoring and Logging

- Configure the collection, aggregation, and storage of logs and metrics
- Audit, monitor, and analyze logs and metrics to detect issues
- Automate monitoring and event management of complex environments

05 Incident and Event Response

- Manage event sources to process, notify, and take action in response to events
- Implement configuration changes in response to events
- Troubleshoot system and application failures

06 Security and Compliance

- Implement techniques for identity and access management at scale
- Apply automation for security controls and data protection
- Implement security monitoring, and auditing solutions