Publication date : 01/26/2024

Course : Amazon Web Services (AWS) - Cloud Operations on AWS

Official course, Systems Operations on AWS

Practical course - 3d - 21h00 - Ref. AWY
Price : 2520 € E.T.

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ActionCo

Formation éligible au financement Atlas

With this course, you'll learn how to create network and system deployments that can be automated and replicated on the AWS platform. We'll explore AWS features and tools related to configuration and deployment, as well as common system configuration and deployment techniques.

PARTICIPANTS

Administrateurs système, responsables des opérations, développeurs logiciels ou toute personne
en charge du support opérationnel sur la plateforme AWS, etc.

PREREQUISITES

Completion of AWS Technical Fundamentals training. Experience of software development or systems administration. Good basic knowledge of TCP/IP and http protocols.

TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

Teaching objectives

At the end of the training, the participant will be able to:

- Manage access to AWS resources using AWS Accounts and Organizations and AWS Identity and Access Management (IAM)
- Maintain an inventory of resources in use with AWS Systems Manager, AWS CloudTrail and AWS Config
- Develop a resource deployment strategy to deploy and maintain an AWS cloud environment
- Automate resource deployment using AWS services such as AWS CloudFormation and AWS Service Catalog
- Know how to use AWS services to manage AWS resources via SysOps lifecycle processes
- Set up a highly available cloud environment to route traffic for optimal latency and performance
- Configuring AWS Auto Scaling and Amazon Elastic Compute Cloud auto scaling on demand
- Learn how to use Amazon CloudWatch and related features to monitor your cloud environment
- Manage authorizations and track activity using AWS services such as AWS CloudTrail and AWS Config
- Building virtual private networks on AWS with Amazon VPC
- Configure and manage storage options using AWS services
- Monitor the health of your infrastructure with Amazon Cloudwatch, Cloudtrail and Config
- Manage resource consumption in AWS with Tags, Amazon Cloudwatch and AWS Trusted Advisor
- Use CloudFormation to create and configure automated AWS deployments and cloud implementations

Intended audience

Administrateurs système, responsables des opérations, développeurs logiciels ou toute personne
en charge du support opérationnel sur la plateforme AWS, etc.

Prerequisites

Completion of AWS Technical Fundamentals training. Experience of software development or systems administration. Good basic knowledge of TCP/IP and http protocols.

Practical details

Teaching methods

Training in French. Official course material in English and digital format. Good understanding of written English.

Course schedule

1 Introduction to system operations on AWS

- System operation.
- AWS Well-Architected Framework.
- AWS Well-Architected tool.

ASSESSMENT TERMS

Assessment of targeted skills prior to training.
Assessment by the participant, at the end of the training course, of the skills acquired during the training course.
Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.
At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.
An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

2 Access management

- Access management.
- AWS resources, accounts and organizations.

3 System discovery

- Troubleshooting scenario.
- Methods for interacting with AWS services.
- Introduction to monitoring services.
- Tools to automate resource discovery.
- Inventory with AWS Systems Manager and AWS Config.

Hands-on work

Audit AWS resources with AWS Systems Manager and AWS Config.

4 Deploy and update resources

- System operations in deployments.
- Tagging strategies.
- Deployment using Amazon Machine Images (AMIs).
- Deployment using AWS Control Tower.
- Troubleshooting scenario.

5 Automate resource deployment

- Deployment using AWS CloudFormation.
- Deployment using AWS Service Catalog.
- Troubleshooting scenario.

Hands-on work

Lab - Infrastructure as Code.

6 Managing resources

- AWS systems manager.
- Troubleshooting scenario

7 Configuring highly available systems

- Traffic distribution with Elastic Load Balancing.
- Amazon Route 53.

8 Automate scaling

- Scaling with AWS Auto Scaling.
- Scaling up with specific instances.
- License management with AWS License Manager.
- Troubleshooting scenario.

9 Monitor and maintain system reliability

- Monitoring and maintaining healthy workloads.
- Monitoring distributed applications.
- AWS infrastructure monitoring.
- Monitoring your AWS account.
- Troubleshooting scenario

Hands-on work
Lab: application and infrastructure monitoring.

10 Data security and system audit

- Maintain a solid identity and access base.
- Implement detection mechanisms.
- Automated incident resolution.
- Troubleshooting scenario.

Hands-on work
Lab: implementation of IAM authorization limits.

11 Operating secure, resilient networks

- Build a secure Amazon Virtual Private Cloud (Amazon VPC).
- Networking beyond mail order.
- Troubleshooting scenario.

12 Mountable Storage

- Amazon Elastic Block Storage (Amazon EBS) configuration.
- Sizing Amazon EBS volumes for performance.
- Using Amazon EBS snapshots.
- Use Amazon Data Lifecycle Manager to manage your AWS resources.
- Create backup and recovery plans.
- Shared file system storage configuration.

13 Object storage

- Deployment of Amazon Simple Storage Service (Amazon S3) with Access Logs.
- Cross-Region Replication et S3 Intelligent-Tiering.

Hands-on work
Lab: automation with AWS Backup for archiving and recovery.

14 Cost reporting, alerts and optimization

- Optimize your AWS spending and usage.
- AWS cost awareness.
- Use of control mechanisms to manage costs.

Hands-on work
Lab: Capstone laboratory for SysOps.

Options

Certification : 200 € HT

Successful completion of the exam leads to AWS Certified SysOps Administrator - Associate level certification (prerequisite: completion of "Technical Essentials" training).
Comment passer votre examen ?

The certification option comes in the form of a voucher or invitation that will allow you to take the exam at the end of the training course.

Dates and locations

REMOTE CLASS
2026 : 14 Apr., 5 May, 9 June, 15 Sep., 13 Oct., 3 Nov., 1 Dec.

PARIS LA DÉFENSE
2026 : 14 Apr., 5 May, 9 June, 15 Sep., 13 Oct., 3 Nov., 1 Dec.