

Course : Amazon Web Services (AWS) - Architecture on AWS

Official course, Architecting on AWS

Practical course - 3d - 21h00 - Ref. AWW

Price : 2590 € E.T.



ActionCo

Formation éligible au financement Atlas

With this course, you'll learn the fundamentals of building an IT infrastructure on the AWS platform. You'll be able to build and deploy an IT infrastructure running on the AWS platform.

Teaching objectives

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

- ✓ Decide on the implementation of an architecture on AWS based on AWS principles and best practices
- ✓ Apply scalability, reliability and high-availability architecture on AWS
- ✓ Use managed services to bring flexibility and resilience to your architecture
- ✓ Improve efficiency, increase performance, reduce and optimize costs of an architecture on AWS
- ✓ Using the AWS Well-Architected framework to enhance architectures with AWS solutions
- ✓ Know how to use architecture models for current solutions on AWS (web applications, batch processing, etc.).
- ✓ Use design components and features to guarantee scalability, elasticity and high availability
- ✓ Concevoir des solutions intégrant des fonctions de sécurité, d'authentification et d'autorisation avec AWS
- ✓ Identify cloud migration procedures

Intended audience

Solution architects, solution design engineers, developers, anyone wanting to learn the basics of AWS architectures.

PARTICIPANTS

Solution architects, solution design engineers, developers, anyone wanting to learn the basics of AWS architectures.

PREREQUISITES

Completion of the AWS Technical Fundamentals course. Knowledge of general cloud and networking concepts. Working knowledge of distributed systems and multi-tier architectures.

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.

Prerequisites

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Practical details

Teaching methods

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

Course schedule

1 Review of architectural fundamentals

- AWS services and infrastructure.
- Infrastructure models.
- AWS API tools.
- Secure your infrastructure.
- The AWS Well-Architected framework.

Hands-on work

Explore how to use AWS API tools to deploy an EC2 instance.

2 AWS account security

- AWS account security: IAM/AWS Organization/Landing Zone/Control Tower.
- Safety principles.
- Identity and resource-based policies.
- Federation of accounts.
- Introduction to managing multiple accounts.

3 Networking (Part 1)

- Network: VPC/Routing/Internet connectivity/NACL & Security Groups.
- IP addressing.
- Amazon Virtual Private Cloud (VPC), models and quotas.
- Routing.
- Internet access.
- Network Access Control Lists (NACL).
- Safety groups.

4 Compute

- Amazon Elastic Cloud Compute (EC2).
- EC2 instances and instance selection.
- High-performance computing on AWS.
- Lambda and EC2, knowing when to use one or the other.

Hands-on work

Create your Amazon VPC infrastructure.

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.

5 Storage

- Amazon S3, security, versioning and storage classes.
- Shared file systems.
- Data migration tools.

6 Database services

- AWS database solutions.
- Amazon Relational Database Services (RDS).
- DynamoDB, features and use cases.
- Redshift, features, use cases and comparison with RDS.
- Data caching and migration.

Hands-on work

Create a database layer in your Amazon VPC infrastructure.

7 Monitoring and scaling

- Monitoring: CloudWatch, CloudTrail and VPC Flow Logs.
- Calling up events.
- Elastic Load Balancing.
- Automatic scaling options and monitoring costs.

Hands-on work

Configure high availability in your Amazon VPC infrastructure.

8 Automation

- CloudFormation.
- AWS Systems Manager.

9 Containers

- Microservices.
- Monitoring microservices with X-Ray.
- Containers.

10 Networking (Part 2)

- VPC Peering & Endpoints.
- Transit Gateway.
- Hybrid Networking.
- Hybrid Networking.

11 Serverless Architecture

- Amazon API Gateway.
- Amazon SQS, Amazon SNS.
- Amazon Kinesis Data Streams and Kinesis Firehose.
- Step Functions.

Hands-on work

Create a serverless architecture.

12 Edge Services

- Edge fundamentals.
- Amazon CloudFront.
- AWS Global Accelerator.
- AWS Web Application Firewall (WAF), DDoS and Firewall Manager.
- AWS Outposts.

Hands-on work

Setting up an Amazon CloudFront distribution with Amazon S3 Origin.

13 Backup and restoration

- Disaster recovery planning.
- AWS backup.
- Recovery strategies.

14 Case study: creating a multi-tier architecture (Lab Capstone)

- Review of current concepts and services.
- End-to-end construction of a scenario-based solution.

Options

Certification : 200 € HT

Successful completion of the exam leads to AWS Certified Solutions Architect - 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: 24 Mar., 28 Apr., 26 May, 23 June, 29 Sep.,
27 Oct., 24 Nov., 15 Dec.

PARIS LA DÉFENSE

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27 Oct., 24 Nov., 15 Dec.