

Course : Amazon Web Services (AWS) - Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS)

Official AWS course

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

Price : 2590 € E.T.

Nouvelle édition

With this training course, you'll learn how to use Amazon EKS to manage and orchestrate containers with Kubernetes. You'll discover how to run Kubernetes on AWS without having to install, manage and maintain your own Kubernetes control plane. You'll learn how to manage container images with Amazon ECR and automate deployments via CI/CD tools. You'll be trained to monitor and adapt your environment with metrics, logs and scaling. You'll also manage storage, configure the AWS network and secure your EKS environment.

Teaching objectives

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

- ✓ Describe key Kubernetes components, including key objects and essential Kubernetes API components
- ✓ Describe how Amazon EKS manages the Kubernetes control plane and parts of the data plane
- ✓ Building and maintaining an Amazon EKS cluster
- ✓ Deploying applications on an Amazon EKS cluster
- ✓ Manage applications running in Amazon EKS clusters on an enterprise scale
- ✓ Set up efficient, secure communication both within the cluster and with external services
- ✓ Configuring observability in an Amazon EKS cluster
- ✓ Provisioning storage for applications running on Amazon EKS
- ✓ Securing an Amazon EKS cluster

Intended audience

Cloud architects, devops engineers, system administrators.

PARTICIPANTS

Cloud architects, devops engineers, system administrators.

PREREQUISITES

Completion of the "AWS Cloud Practitioner Essentials" training course or equivalent practical experience, as well as basic Linux and network administration experience.

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.

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.

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Certification

Official course without certification.

[Comment passer votre examen ?](#)

Practical details

Teaching methods

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

Course schedule

1 Kubernetes fundamentals

- Advantages of containers.
- Orchestrate containers.
- The inner workings of Kubernetes.
- Plan pods.
- Kubernetes objects.

2 Amazon EKS fundamentals

- Introduction to Amazon EKS.
- Amazon EKS control panel.
- Amazon EKS data plan.
- The fundamentals of Amazon EKS Security.
- Two APIs: Kubernetes and Amazon EKS.

Hands-on work

Deploy Kubernetes Pods.

3 Creating and maintaining an Amazon EKS cluster

- Create an Amazon EKS cluster.
- Deploy nodes.
- Plan an upgrade.
- Upgrade your version of Kubernetes.

Hands-on work

Build an Amazon EKS cluster.

4 Deploying applications on your Amazon EKS cluster

- Application deployment methods.
- Working with Amazon ECR.
- Deploying applications with Helm.

Hands-on work

Application deployment.

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 Large-scale application management in Amazon EKS

- Scale to meet demand in Amazon EKS.
- Continuous deployment in Amazon EKS.
- GitOps and Amazon EKS.

Hands-on work

Continuous deployment and GitOps.

6 Networking management in Amazon EKS

- Review: Networking in AWS.
- Communicating in Amazon EKS.
- Improving pod safety.
- Load balancing with services.

7 Configuring observability in Amazon EKS

- Configuring observability in an Amazon EKS cluster.
- Collect metrics.
- Manage logs.
- Track applications in Amazon EKS.

Hands-on work

Monitor Amazon EKS.

8 Storage management in Amazon EKS

- Design storage models.
- Using persistent storage in Kubernetes.
- Use persistent storage with AWS storage services.
- Managing secrets.

Hands-on work

Persistent storage in Amazon EKS.

9 Security management in Amazon EKS

- Understand the fundamentals of cloud security.
- Manage authentication and authorization.
- Manage IAM and RBAC.
- Manage pod permissions with RBAC service accounts.

Hands-on work

Final exercise.

Dates and locations

REMOTE CLASS

2026 : 30 June, 15 Dec.

PARIS LA DÉFENSE

2026 : 30 June, 15 Dec.