

Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS)

Duración: 3 Días Código del Curso: GK7381 Método de Impartición: Curso Remoto (Virtual)

Temario:

In this course, you will learn how to use Amazon EKS to manage and orchestrate containers with Kubernetes.

With Amazon EKS you can run Kubernetes on AWS without needing to install, operate, and maintain your own Kubernetes control plane. You will manage container images using Amazon Elastic Container Registry (Amazon ECR) and learn how to automate application deployment. You will deploy applications using continuous integration and delivery (CI/CD) tools. You will learn how to monitor and scale your environment by using metrics, logging, tracing, and horizontal and vertical scaling. You will also manage storage for your containerized applications, configure AWS networking services to support the cluster, and learn how to secure your Amazon EKS environment.

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Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Dirigido a:

This course is intended for people who provide container orchestration management in the AWS Cloud, including:

- Cloud architects
- DevOps engineers
- Systems administrators

Objetivos:

■ In this course, you will learn to:

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| <ul style="list-style-type: none"> ■ Describe the main components of Kubernetes, including the key objects and the core components of the Kubernetes API. ■ Describe how Amazon EKS manages the Kubernetes control plane and parts of the data plane. ■ Build and maintain an Amazon EKS cluster. ■ Deploy applications to an Amazon EKS cluster. | <ul style="list-style-type: none"> ■ Manage applications running in enterprise-scale Amazon EKS clusters. ■ Configure efficient, secure communication both within the cluster and with outside services. ■ Configure observability in an Amazon EKS cluster. ■ Provision storage for applications running on Amazon EKS. ■ Secure an Amazon EKS cluster. |
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Prerequisitos:

We recommend that attendees of this course have:

- Completed Introduction to Containers
- Completed Amazon EKS Primer
- Completed AWS Cloud Practitioner Essentials (or have equivalent real-world experience)
- Basic Linux administration experience
- Basic network administration experience

Exámenes y certificación

None

Siguientes cursos recomendados:

- GK0630 - Practical Data Science with Amazon SageMaker
- GK110001 - Amazon SageMaker Studio for Data Scientists
- GK910029 - Machine Learning Engineering on AWS

Contenido:

Day 1	Module 4: Deploying Applications to Your Amazon EKS Cluster	Module 7: Configuring Observability in Amazon EKS
Module 1: Kubernetes Fundamentals	<ul style="list-style-type: none">■ Application deployment methods■ Working with Amazon ECR■ Deploying applications with Helm■ Hands-On Lab: Deploying Applications	<ul style="list-style-type: none">■ Configuring observability in an Amazon EKS cluster■ Collecting metrics■ Managing logs■ Application tracing in Amazon EKS■ Hands-On Lab: Monitoring Amazon EKS
<ul style="list-style-type: none">■ Benefits of containers■ Container orchestration■ Kubernetes internals■ Pod scheduling■ Kubernetes objects	Day 2	Day 3
Module 2: Amazon EKS Fundamentals	Module 5: Managing Applications at Scale in Amazon EKS	Module 8: Managing Storage in Amazon EKS
<ul style="list-style-type: none">■ Introduction to Amazon EKS■ Amazon EKS control plane■ Amazon EKS data plane■ Fundamentals of Amazon EKS security■ Two APIs: Kubernetes and Amazon EKS■ Hands-On Lab: Deploying Kubernetes Pods	<ul style="list-style-type: none">■ Scale to meet demand in Amazon EKS■ Continuous deployment in Amazon EKS■ GitOps and Amazon EKS■ Hands-On Lab: Continuous Deployment and GitOps	<ul style="list-style-type: none">■ Design patterns for storage■ Persistent storage in Kubernetes■ Persistent storage with AWS storage services■ Managing secrets■ Hands-On Lab: Persistent Storage in Amazon EKS
Module 3: Building and maintaining an Amazon EKS cluster	Module 6: Managing Networking in Amazon EKS	Module 9: Managing Security in Amazon EKS
<ul style="list-style-type: none">■ Creating an Amazon EKS cluster■ Deploying nodes■ Planning for an upgrade■ Upgrading your Kubernetes version	<ul style="list-style-type: none">■ Review: Networking in AWS■ Communicating in Amazon EKS■ Improving Pod-level security■ Load balancing with Services	<ul style="list-style-type: none">■ Cloud security fundamentals■ Authentication and authorization■ Managing IAM and RBAC■ Managing Pod permissions using RBAC service accounts■ Hands-On Lab: Capstone Exercise

Información Adicional:

Activities:

This course includes presentations, hands-on labs, demonstrations, and group exercises.

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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