

# Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS)

| **Vendor:** AWS

**Duration:** 24.00 hours (3 days)

**19.5 CPD Hours**

**Rating:** ★ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

Amazon EKS makes it easy for you to run Kubernetes on AWS without needing to install, operate, and maintain your own Kubernetes control plane. In this course, you will learn container management and orchestration for Kubernetes using Amazon EKS. You will build an Amazon EKS cluster, configure the environment, deploy the cluster, and then add applications to your cluster. You will manage container images using Amazon Elastic Container Registry (ECR) and learn how to automate application deployment. You will deploy applications using CI/CD tools. You will learn how to monitor and scale your environment by using metrics, logging, tracing, and horizontal/vertical scaling. You will learn how to design and manage a large container environment by designing for efficiency, cost, and resiliency. You will configure AWS networking services to support the cluster and learn how to secure your Amazon EKS environment.

## About This Course

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## Who Should Attend

This course is intended for:

Those who will provide container orchestration management in the AWS Cloud including:

DevOps engineers

Systems administrators

# Learning Outcomes

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**Upon successful completion of this course, participants will be able to:**

In this course, you will learn to:

Review and examine containers, Kubernetes and Amazon EKS fundamentals and the impact of containers on workflows.

Build an Amazon EKS cluster by selecting the correct compute resources to support worker nodes.

Secure your environment with AWS Identity and Access Management (IAM) authentication by creating an Amazon EKS service role for your cluster

Deploy an application on the cluster. Publish container images to ECR and secure access via IAM policy.

Automate and deploy applications, examine automation tools and pipelines. Create a GitOps pipeline using WeaveFlux.

Collect monitoring data through metrics, logs, tracing with AWS X-Ray and identify metrics for performance tuning. Review scenarios where bottlenecks require the best scaling approach using horizontal or vertical scaling.

Assess the tradeoffs between efficiency, resiliency, and cost and impact for tuning one over the other. Describe and outline a holistic, iterative approach to optimizing your environment. Design for cost, efficiency, and resiliency.

Configure the AWS networking services to support the cluster. Describe how EKS/Amazon Virtual Private Cloud (VPC) functions and simplifies inter-node communications. Describe the function of VPC Container Network Interface (CNI). Review the benefits of a service mesh.

Upgrade your Kubernetes, Amazon EKS, and third party tools

## Additional Course Details

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Nexus Humans Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

# Frequently Asked Questions

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## **Q: What delivery options are available for Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS)?**

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
  - Traditional Instructor-Led Classroom Training (ILT)
  - On-site delivery at your offices anywhere in United Kingdom
  - Private dedicated courses customized for your team
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## **Q: How many CPD hours does this course provide?**

The 3-day Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS) course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

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## **Q: What is the duration of the Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS) training?**

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

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## **Q: Do you provide corporate training for Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS)?**

Yes, we provide corporate training, dedicated training, and closed classes for Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

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## Q: Why choose Nexus Human for Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

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## Q: Are there any discount codes available?

Yes! Use discount code **PENPALS** when booking your Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

# Nexus Human

## Professional Training & Development

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