

# Getting started with Google Kubernetes Engine

Course code: GCPSGKE

This course will teach you how to containerize workloads in Docker containers, deploy them to Kubernetes clusters provided by Google Kubernetes Engine, and scale those workloads to handle increased traffic. You'll also learn how to continuously deploy new code in a Kubernetes cluster to provide application updates.

Affiliate	Duration	Course price	ITB
Praha	1	7 980 Kč	0
Brno	1	7 980 Kč	0
Bratislava	1	595 €	0

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
30.09.2026	1	7 980 Kč	Online	EN	TD SYNEX Czech - Online
10.02.2027	1	8 900 Kč	Online	EN	TD SYNEX Czech - Online

The prices are without VAT.

## Who is the course for

Application developers, Cloud Solutions Architects, DevOps Engineers, IT managers

Individuals using Google Cloud to create new solutions or to integrate existing systems, application environments, and infrastructure with the Google Cloud.

## What we teach you

- Understand how software containers work.
- Understand the architecture of Kubernetes.
- Understand the architecture of Google Cloud.
- Understand how pod networking works in Google Kubernetes Engine.
- Create and manage Kubernetes Engine clusters using the Google Cloud Console and gcloud/kubectl commands.

## Required skills

- Basic proficiency with command-line tools and Linux operating system environments, as well as Web server technologies such as Nginx
- Systems Operations experience including deploying and managing applications, either on-premises or in a public cloud environment
- **It is highly recommended to have attended the Architecting with Google Compute Engine (**
- **GCPACE**
- **)**

## Course outline

- Use the Google Cloud Console
- Use Cloud Shell
- Define Cloud Computing
- Identify Google Cloud compute services
- Understand Regions and Zones
- Understand the Cloud Resource Hierarchy
- Administer your Google Cloud Resources

### GOPAS Praha

Na Strži 2097/63  
140 00 Praha 4 - Krč  
Tel.: +420 226 201 390  
[info@gopas.cz](mailto:info@gopas.cz)

### GOPAS Brno

Nové sady 996/25  
602 00 Brno  
Tel.: +420 530 513 590  
[info@gopas.cz](mailto:info@gopas.cz)

### GOPAS Bratislava

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 902 903 132  
[info@gopas.sk](mailto:info@gopas.sk)



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## Module 2: Containers and Kubernetes in Google Cloud

- Create a Container Using Cloud Build
- Store a Container in Container Registry
- Understand the Relationship Between Kubernetes and Google Kubernetes Engine (GKE)
- Understand how to Choose Among Google Cloud Compute Platforms

## Module 3: Kubernetes Architecture

- Understand the Architecture of Kubernetes: Pods, Namespaces
- Understand the Control-plane Components of Kubernetes
- Create Container Images using Cloud Build
- Store Container Images in Container Registry
- Create a Kubernetes Engine Cluster

## Module 4: Introduction to Kubernetes Workloads

- The kubectl Command
- Introduction to Deployments
- Pod Networking
- Volumes Overview

**GOPAS Praha**  
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**GOPAS Bratislava**  
Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 902 903 132  
[info@gopas.sk](mailto:info@gopas.sk)

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