

Elastic Stack: Elasticsearch, Logstash a Kibana







Course code: ELASTICSTACK

The course is focused on obtaining logs, transforming them into something usable for subsequent analysis, storing them in Elasticsearch, and the analysis and visualization of data in Kibana. We will also take a look at Kibana APM (Application Performance Monitoring), and in the end, we will deploy everything on Kubernetes using ECK (Elastic Cloud on Kubernetes).

Affiliate	Duration	Course price	ITB
Praha	3	21 600 Kč	30
Brno	3	21 600 Kč	30
Bratislava	3	990 €	30

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
 19.02.2025	3	21 600 Kč	Telepresence	CZ/SK	GOPAS Praha_GTT
 19.02.2025	3	21 600 Kč	Telepresence	CZ/SK	GOPAS Brno_GTT
 19.02.2025	3	990 €	Telepresence	CZ/SK	GOPAS Bratislava_GTT
 26.05.2025	3	990 €	Telepresence	CZ/SK	GOPAS Bratislava_GTT
 26.05.2025	3	21 600 Kč	Telepresence	CZ/SK	GOPAS Praha_GTT
 26.05.2025	3	21 600 Kč	Telepresence	CZ/SK	GOPAS Brno_GTT

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Required input knowledge

- The course assumes knowledge and experience with Docker at the level of the DOCKER course

Teaching methods

- Expert explanation with practical examples, exercises on computers.

Studying materials

- Printed presentations of the subject matter.

Course syllabus

Fluentd or Filebeat & Logstash

- collection of application logs from files
- log parsing and its transformation into JSON
- Transformation & filtering
- connection with Elasticsearch
- MDC (Mapped Diagnostic Context)

Elasticsearch

- architecture
- cluster
- shards, nodes, indexes
- index operations
- search
- Elasticsearch SQL
- ILM (Index Lifecycle Management)

GOPAS Praha

Kodaňská 1441/46
101 00 Praha 10
Tel.: +420 234 064 900-3
info@gopas.cz

GOPAS Brno

Nové sady 996/25
602 00 Brno
Tel.: +420 542 422 111
info@gopas.cz

GOPAS Bratislava

Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 248 282 701-2
info@gopas.sk



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Elastic Stack: Elasticsearch, Logstash a Kibana

- hot & warm & cold nodes
- backup & restore
- monitoring
- tuning

Kibana

- Configuration
- Index patterns
- Visualization
- Dashboards
- Search in data
- KQL (Kibana Query Language)

APM

- Kibana APM (Application Performance Monitoring)
- Monitoring of microservice architecture operations

ECK

- Elastic Cloud on Kubernetes (ECK)
- Deploy Elastic to Kubernetes cluster

GOPAS Praha

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info@gopas.sk



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