

Elastic Stack Log Management

Course Outline

- Introduction
 - Introduction to Log Management
 - Introduction to Elastic Stack (former ELK)
 - Elastic Stack Alternatives (Loki Stack)
 - Best log output / format (in own applications)
- ELK Setup
 - VMs (without Docker)
 - VMs + Docker
 - Kubernetes with ECK (Elastic Cloud on Kubernetes, preferred)
 - Node Types
- Logs in Elasticsearch (Indices & Data Streams)
 - Indices
 - Data Streams
 - Stages (hot, warm, cold)
 - Retention policies
 - Sharding
- Beats (log sources)
 - What are Beats
 - Installation of Beats
 - Filebeat, MetricBeat
 - Beats in Kubernetes
- Working with Logs in Beats
 - Filters
 - Processors
 - Parsing
 - Outputs
- Working with logs in Elastic Search (ingest pipelines)
- Kibana
 - Intro into Kibana
 - Log Stram
 - KQL (Kibana Query Language)
 - Spaces & Discover
 - Dashboards
- Backups
- Cross cluster replication