Training: Component Soft
KBS-343 Kubernetes Troubleshooting

TRAINING GOALS:

As Kubernetes becomes the most widely used platform for deploying applications it becomes of paramount importance to know how to address problems that may occur in these systems.

This course will present from the generic methodologies applicable in the troubleshooting to the domain specific instructions that will address the various aspects of Kubernetes and the deployed applications.

Structure: 40% theory 60% hands on lab exercises.

Target audience: Professionals who are involved in managing/operating Kubernetes clusters and the applications on top of them.

CONSPECT:

- Module 1: Troubleshooting methodology and tools
  - Fault analysis methodology
  - Diagnosis methodology
  - Diagnosis tools
    - System
    - Container
    - Kubernetes
- Module 2: Kubernetes architecture
  - Control plane components, configuration, logging
  - Worker components, configurations, logging
  - Request processing
  - RBAC
  - Troubleshooting node issues
- Module 3: Handling workload errors
  - Troubleshooting pod errors.
  - Troubleshooting Deployments
  - Troubleshooting StatefulSets

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- Module 4: Troubleshooting the Networking
  - Network architecture
  - CNI
  - Troubleshooting services
  - Troubleshooting network policies
- Module 5: Storage issues
  - Storage in Kubernetes
  - CSI
  - Troubleshooting storage issues

REQUIREMENTS:

Working experience with Kubernetes, a general understanding of the Linux kernel, containerization, and networking concepts.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Component Soft (course completion).

TRAINER:

Certified Component Soft Trainer.

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