Category: DevOps

GitLab CI/CD # 010101

Das Training läuft vom 16.06.2025 bis zum 27.06.2025 und es wird auf Englisch gehalten.

Es findet sich vom 08:30 bis 17:00 statt.

Das Training findet sich nur Online statt.

Key Learnings

- Building CI/CD pipelines in GitLab
- Job Keywords
- Variables, artifacts & caching
- Pipeline types and triggers
- GitLab Runner – characteristics, types & configuration
- Build & deployment via Docker & Kubernetes
- Introduction and differentiation of Git workflows

Requirements

- Basic knowledge of Git and GitLab is nice to have

GitLab CI/CD Training	
Module	
1. GitLab & Overview of CI/CD (day1) • approaches and added value • First steps with GitLab • GitLab CI/CD architecture • GitLab AutoDevOps as inspiration for concrete pipelines • GitLab Runner and Executor	

2. GitLab Excersices (day2)
• Master GitLab from basics to advanced features
• Set up and manage GitLab repositories efficiently
   Implement effective branching and
   merging strategies	

3. CI/CD Jobs (day3) • Jobs, stages and workflows • Variables and their sources/hierarchy • Dependencies and needs • Artifacts and cache • Tags, images, services • Triggers and schedules • Rules • Environments • Includes, templates, anchors and references	
4. CI/CD Jobs Exercises (day4)	
5. Debugging & Registries (day5) • Debugging CI/CD configurations • Configure and optimize GitLab CI/CD Pipelines • Merge requests and feature branches • Utilize GitLab's Package Registry and Container Registry	
6. Project Exercises (day 6)	
7. Kubernetes &Terraform (day7) • Integrate GitLab with cloud services like AWS and Kubernetes (EKS) • Leverage GitLab's Terraform integration for infrastructure as code • Implement automated testing and code quality checks with SonarQube •	
8. Docker & Ansible (day 8) • Use GitLab with Docker and DockerHub for containerized workflows • Integrate GitLab with Ansible for configuration management • Manage Terraform states within GitLab	
9. Performance and Scalability (day 9) • Connect GitLab with Jira and Confluence for seamless project management • Implement security best practices in GitLab workflows • Administer and optimize GitLab for performance and scalability	

10. Other Tools (day 10)	
• Apply GitLab's features to real-world development scenarios • Collaborate effectively using GitLab's team-oriented tools • Set up Telegram notifications for GitLab events	