

Gitlab CI

Course Outline

- Introduction
 - Quick intro to CI/CD
 - Gitlab CI vs Others
- Gitlab CI Setup
 - Gitlab CI options & configuration
 - Gitlab Runner on Virtual Machine
 - Gitlab Runner in Kubernetes
- First Pipeline
 - Gitlab CI Configuration (YAML)
 - First Job
- Stages
 - Introduction to stages
 - Dependencies between jobs (needs)
- Conditions
 - Rules
 - When
 - Manual jobs
- Docker
 - Job environment in Docker container
 - Build Docker Images
 - Gitlab Container Registry
 - Dockerless builds (Kaniko)
- Caches
 - Overall introduction to caching
 - Gitlab CI Caches
 - Alternatives to native caching (GIT_CLEAN_FLAGS)
 - Docker & caching
- Artifacts
 - Introduction to job artifacts
 - Passing files between jobs
 - Build outputs in artifacts
 - Gitlab Pages (HTML artifacts)
- Artifacts Integrations
 - Integration with JUNIT
 - Integration with Terraform
- Merge Requests Integrations
 - Merge request pipelines
 - Merge request approvals
- Advanced work with pipelines

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- Generated pipelines
- Cross project pipelines
- Triggers
- Example project
 - Own full pipeline example
 - Build, lint, test & deploy