

GITLAB Training

Level - Intermediate



March 23, 2023

Cotocus Ltd.

Bangalore, India

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| Training Dates | TDB |
| Time | Days | 2 Days |
| Trainer Name | Rajesh Kumar  https://www.rajeshkumar.xyz/cv/ |

Trainer Agenda

## Day 1

**Introduction to GitLab (1 hour)**

* What is GitLab?
* Why use GitLab?
* Basic concepts of GitLab
* GitLab workflow

**Working with GitLab Locally (3 hours)**

* Installing GitLab locally
* Initializing a Git repository
* Adding and committing changes
* Viewing the commit history
* Reverting changes
* Branching and merging
* Using GitLab CI/CD
* Using GitLab Runner
* Using GitLab API

**Working with GitLab Remotely (2 hours)**

* Creating a GitLab repository
* Cloning a GitLab repository
* Pushing and pulling changes
* Collaborating with others
* Forking and merge requests
* Setting up GitLab authentication

**Advanced GitLab Techniques (2 hours)**

* Resolving merge conflicts in GitLab
* GitLab rebase
* Stashing changes in GitLab
* Undoing changes in GitLab
* Using GitLab's advanced features like issue tracking, code review, and continuous integration

## Day 2

**GitLab Workflows (2 hours)**

* GitLab flow
* Using GitLab for agile software development
* Using GitLab for DevOps
* Choosing the right workflow for your team

**Best Practices for GitLab (2 hours)**

* Commit messages in GitLab
* Branch naming conventions in GitLab
* Code reviews in GitLab
* Using GitLab hooks
* Using GitLab aliases

**GitLab for Large Projects (2 hours)**

* Using Git submodules in GitLab
* Using Git subtree in GitLab
* Using Git LFS in GitLab
* Using GitLab with Continuous Integration

**Wrap-up (30 minutes)**

* Recap of the training
* Q&A session