



Module Checklist

Version Control with Git

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Video Overview

- ★ Introduction to Version Control
- ★ Basic concepts of Git
- ★ Setup Git Repository
- ★ Working with Git
- ★ Initialize Git Repository locally
- ★ Concept of Branches
- ★ Merge Requests
- ★ Deleting Branches
- ★ Avoiding Merge Commits (rebase)
- ★ Resolving Merge Conflicts
- ★ Don't track certain files/folders - .gitignore
- ★ Save work-in-progress changes (stash)
- ★ Going back in history (git log, git checkout)
- ★ Undoing and changing commits (reset, revert, amend)
- ★ Merging Branches
- ★ Git for DevOps

Check your progress... 1/3



Introduction to Version Control

- ☐ Watched video

Basic concepts of Git

- ☐ Watched video

Setup Git Repository

- ☐ Watched video
- ☐ **Demo executed**
 - ☐ Created a user account for GitLab or GitHub (if you haven't already)
 - ☐ Created your own git repository/project on GitLab or GitHub
 - ☐ Installed a Git client (GUI or Command Line Tool)
 - ☐ Customized your terminal to show Git information
 - ☐ Created a SSH key pair (in case you don't have one already)
 - ☐ Added public ssh key to GitLab or GitHub
 - ☐ Configured your git command line tool with your username and email address using "git config .." command
 - ☐ Cloned remote repository to your local machine

Useful Links:

- Git GUI - Installation Guides: <https://www.git-scm.com/downloads/guis>
- Install Git Command Line: <https://git-scm.com/downloads>
- Steps to create SSH Key Pair:
<https://docs.gitlab.com/ee/user/ssh#generate-an-ssh-key-pair>

Working with Git

- ☐ Watched video
- ☐ **Demo executed** - make your first commit and push to your remote repository

Check your progress... 2/3



Initialize a Git Repository locally

- ☐ Watched video
- ☒ **Demo executed**
 - ☐ Created another project locally (which is NOT a git repository yet)
 - ☐ Transformed project into a git repository with *git init*
 - ☐ Configured a remote repository for that local repository (*git remote add origin ...*) and pushed to it

Concept of Branches

- ☐ Watched video
- ☒ **Demo executed** - create a branch locally and remotely

Merge Requests

- ☐ Watched video
- ☒ **Demo executed** - create a Merge Request

Deleting Branches

- ☐ Watched video
- ☒ **Demo executed** - delete a branch remotely and locally

Avoiding Merge Commits (rebase)

- ☐ Watched video
- ☒ **Demo executed**

Resolving Merge Conflicts

- ☐ Watched video
- ☒ **Demo executed**

Check your progress... 3/3

Don't track certain files/folders (.gitignore)

- ☐ Watched video
- ☐ **Demo executed** - create a .gitignore file to exclude editor specific files/folder

Save work-in-progress local changes (stash)

- ☐ Watched video
- ☐ **Demo executed**

Going back in history (git checkout, git log)

- ☐ Watched video
- ☐ **Demo executed**

Undoing and changing commits (reset, revert, amend)

- ☐ Watched video
- ☐ **Demo executed**
 - ☐ Used git reset
 - ☐ Used git commit --amend
 - ☐ Used git revert

Merging Branches

- ☐ Watched video
- ☐ **Demo executed** - merge bugfix branch into master

Git for DevOps

- ☐ Watched video