

Quick start – GITLAB

AGENDA

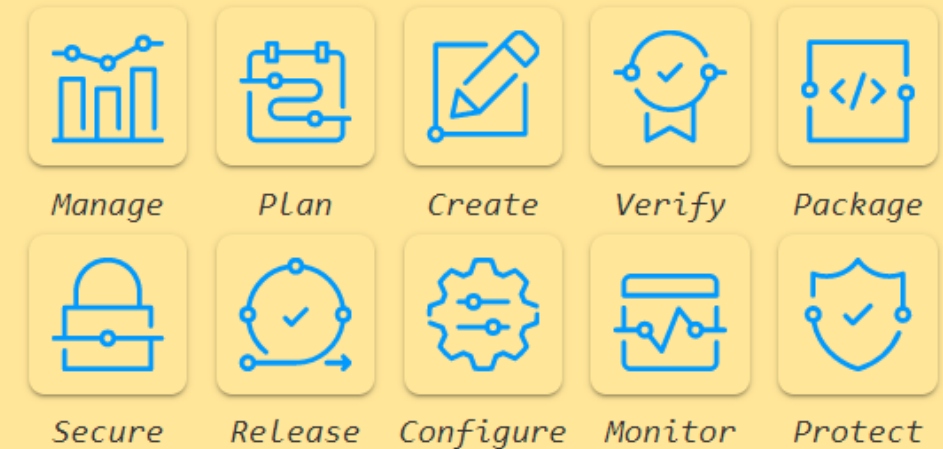
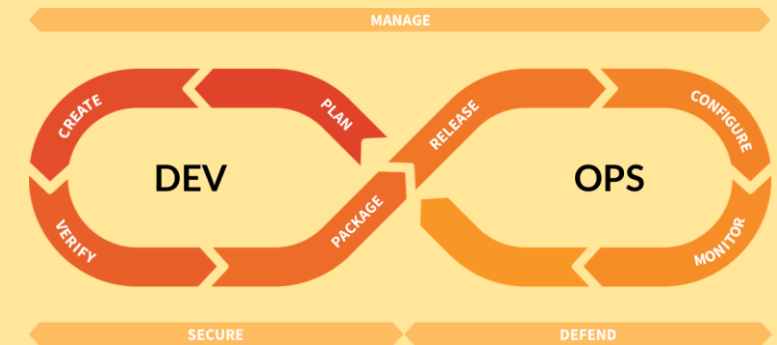
- › Introduction
- › Installation
- › First project
- › Resources
- › [Bonus]



Quick start – GITLAB

› Introduction

- › Web-based interface for versioning via GIT
- › Includes additional management & documentation functions
- › File manager, integrated “ticketing system” & Wiki
- › Automatic Code-Integration / Testing / Distribution (CI/CD)
- › A complete DevOps platform
- › Agile-Development
 - › Roadmap – Schedule Events
 - › Epics – Business case, Backlog
 - › Milestone – Sprints
 - › Burndown Charts
 - › Create Labels for Issues-Filtering
 - › Jira Integration



Quick start — GITLAB

› Installation — Gitlab CE

```
› sudo apt update && sudo apt upgrade -y

› sudo apt install curl openssh-server ca-certificates -y

› curl -sS
https://packages.gitlab.com/install/repositories/gitlab/gitlab-
ce/script.deb.sh | sudo bash

› sudo apt install vim gitlab-ce

› sudo vim /etc/gitlab/gitlab.rb
    › external_url 'http://santhosh-dev'

› sudo gitlab-ctl reconfigure

› sudo gitlab-rake gitlab:env:info
```



- › OS: Ubuntu 20.04 LTS
 - › Minimum Spec: 4GB RAM, 25GB Hard disk
- › GITLAB: 13.7 CE
- › For web-based version:
 - › https://gitlab.com/users/sign_up

Quick start – GITLAB

- › First project
- › Create first project
- › Push an existing git repo
- › Compare some diffs
- › Create first issue
- › Maybe a wiki



Quick start – GITLAB

› Resources

› Gitlab

- › Documentation: <https://docs.gitlab.com/>
- › Installation: <https://about.gitlab.com/install/>
- › SSH key: <https://docs.gitlab.com/ce/ssh/>
- › Ubuntu ISO: <https://ubuntu.com/download/desktop>
- › Git [optional]: <https://git-scm.com/downloads>



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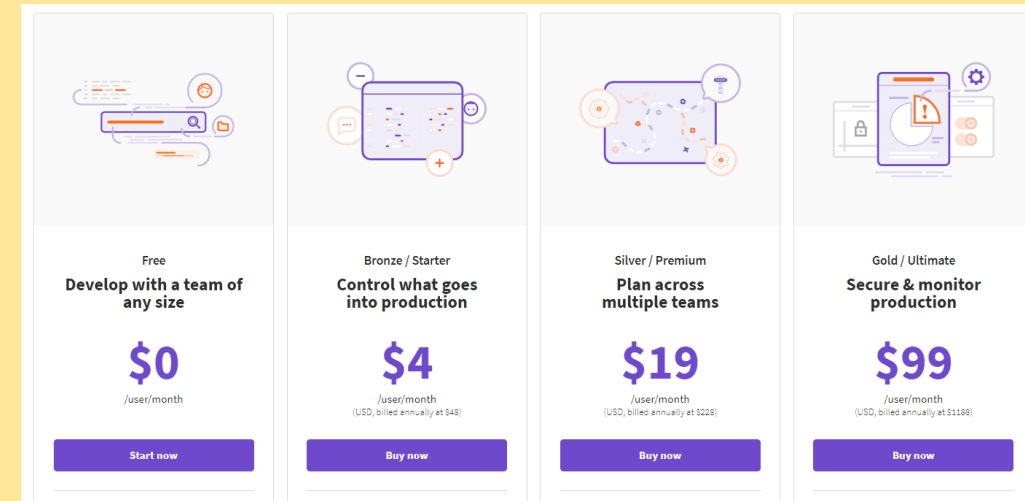
› [BONUS] Facts





› First released in September 2011

› Paid plans: starting from \$48/user/year

› Features:

- › Code review,
- › Wiki,
- › Issue Tracking,
- › Build system,
- › Import/Export projects,
- › Time tracking,
- › Web & Self-Hosting



			
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<https://about.gitlab.com/pricing/>

Quick start — GITLAB

› [BONUS] Postfix

› Gitlab can be configured to send and receive Emails

› Commands:

› sudo apt-get install postfix

› sudo vim

/etc/postfix/sasl_passwd

› [<smtp>]:<port> <user>:<password>

› sudo postmap
/etc/postfix/sasl_passwd

› sudo chown root:root
/etc/postfix/sasl_passwd
/etc/postfix/sasl_passwd.db

› sudo chmod 0600
/etc/postfix/sasl_passwd
/etc/postfix/sasl_passwd.db

› sudo vim /etc/postfix/main.cf

› relayhost = [<smtp>]:<port>

› smtp_sasl_auth_enable = yes

› smtp_sasl_security_options =
noanonymous

› smtp_sasl_password_maps =
hash:/etc/postfix/sasl_passwd

› smtp_use_tls = yes

› smtp_tls_CAfile = /etc/ssl/certs/ca-
certificates.crt

› sudo service postfix restart

› sudo apt-get install mailutils

› echo "body of your email" | mail -s
"This is a Subject" -a "From:
you@example.com" recipient@elsewhere.com

› **Turn on less secure apps** on the Email
account, for example: Google Accounts >
Security > Turn on less secure apps

Quick start – GITLAB

› RECAP

- › Intro to GITLAB
- › Installation of GITLAB CE
- › First project in GITLAB
- › Link local GIT repo to the GITLAB project
- › Issues, Wiki and so on.
- › [Bonus] Postfix for sending emails



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