



GitLab

Introduction

- GitLab is an open source, cloud-based Git repository and version control system used by multiple organizations worldwide.

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- GitLab is Written in Ruby, GitLab CE includes a host of features that enable software development teams to consolidate source code, track and manage releases.
- It increase code quality, deploy code changes, and track the evolution of software over time.

GitLab Installation on Ubuntu

Step-1: Install and configure the necessary dependencies

```
#sudo apt-get update
```

```
#sudo apt-get install -y curl openssh-server  
ca-certificates
```

Step-2: install Postfix to send notification emails

```
#sudo apt-get install -y postfix
```

GitLab Installation on Ubuntu

Step-3: Add the GitLab package repo. and install the package

curl

`https://packages.gitlab.com/install/repositories/gitlab/gitlab-ee/script.deb.sh | sudo bash`

Step-4: install the GitLab package.

sudo EXTERNAL_URL="http://gitlab.example.com" apt-get install gitlab-ee

Step-5: Configure and start git lab

gitlab-ctl reconfigure

GitLab Installation on Ubuntu

Step-6: Browse to the hostname and login

Reset password for “root” user

Uname : root

pwd : <New pwd>

To Create a New Project

Blank project		Create from template	Import project
Project path		Project name	
<input type="text" value="http://35.227.71.241/"/>	<input type="text" value="root"/>	<input type="text" value="mydemoproject"/>	
Want to house several dependent projects under the same namespace? Create a group			
Project description (optional)			
<input type="text" value="Description format"/>			
Visibility Level ?			
<input checked="" type="radio"/> Private Project access must be granted explicitly to each user.			
<input type="radio"/> Internal The project can be accessed by any logged in user.			
<input type="radio"/> Public The project can be accessed without any authentication.			
<input type="button" value="Create project"/>			<input type="button" value="Cancel"/>

To Create a New Project

Git global setup

```
# git config --global user.name "Administrator"  
# git config --global user.email admin@example.com
```

Create a new repository

```
# git clone http://<Server IP Addr>/root/mydemoproject.git  
# cd mydemoproject  
# touch README.md  
# git add README.md  
# git commit -m "add README"  
# git push -u origin master
```