Setting Up Gitlab On LocalHost on Ubuntu 18.04

Note: Heavily based on the Ubuntu documentation at <u>https://about.gitlab.com/install</u> /<u>#ubuntu</u>. Uses system requirements from: <u>https://docs.gitlab.com/ee/install</u> /<u>requirements.html</u>

Time to complete: About 2 hours

Tested on: Xubuntu 18.04

Set Up All Prerequisites

You'll need to install Ruby 2.5+ and PostgreSQL before you can install GitLab.

Install Ruby

Ruby can be installed from the standard Ubuntu repositories. Answer "Y" when it asks if you want to continue after telling you how much disk space it will take.

```
sudo apt install ruby
```

Install PostgreSQL

Install PostgreSQL from Ubuntu's repository.

```
apt-get install postgresql-10
```

Check the other Requirements

At least 2 CPUs and 4 GB of RAM + a 4 GB swap space. This will work, but run indredibly slowly. Preferably 8 GB of RAM. This setup will support up to 100 users,

and is more than adequate for basic testing.

Installing Gitlab

Get Dependencies

1. Update your repositories.

sudo apt-get update

2. Install openssh-server and ca-certificates

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

3. Install postfix, which is required for notification e-mails to be sent.

sudo apt-get install -y postfix

4. Choose "internet site" at the configuration screen. Use the default mail name, which should be your system name.

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Packa	ge cor	nfigura	tion		
			Gener	Postfix Configuration ral type of mail configuration: No configuration Internet Site Internet with smarthost Satellite system Local only	
				<ok> <cancel></cancel></ok>	

Add Gitlab Community Edition Repository

Fetch the GitLab Community Edition repository. Be sure to include the single-quotes () on each end of the statement.

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

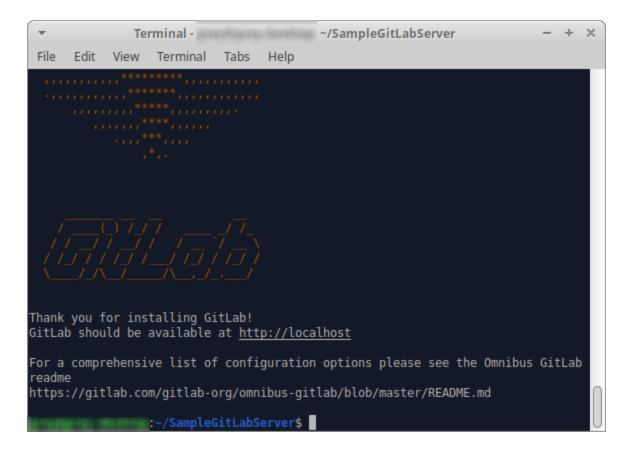
Install the Gitlab Package!

The big moment is finally here! This will set up gitlab and serve it at localhost.

```
sudo EXTERNAL_URL="http://localhost" apt-get install gitlab-ce
```

Go get some tea. This is going to take a minute.

You'll be able to tell the installation is done when you see this in your terminal:



Now navigate to to http://localhost. You should see:

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<u> </u>	.										
	GitLab Community Edition	Change your password									
	Open source software to collaborate on code	New password									
	Manage Git repositories with fine-grained access controls that keep your code secure. Perform code reviews and enhance collaboration with merge										
	requests. Each project can also have an issue tracker and a wiki.	Confirm new password									
		Change your password									
		change your passiford									
		Didn't receive a confirmation email? Request a new one Already have login and password? Sign in									
		An easy have login and password: sign in									
	Explore Help About GitLab										

Final Setup

What's that, a password reset screen? Yep! You're setting up the root account password. Enter your new password and submit it. Now log in using the username root and the password you just entered.

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Welcome to GitLab								
Code, test, and deploy together								
Create a project	Create a group							
Projects are where you store your code, access issues, wiki and	Groups are a great way to organize projects and people.							
other features of GitLab.								
Add people	Configure GitLab							
Add your team members and others to GitLab.	Make adjustments to how your GitLab instance is set up.							

And you're done!

References

GitLab installation docs: <u>https://about.gitlab.com/install/#ubuntu</u> (note, this is written for the Enterprise Edition. Adjustments have been made here to account for installing the CE edition)

GitLab sysreqs: https://docs.gitlab.com/ee/install/requirements.htm

PostgreSQL Installation Page: https://www.postgresql.org/download/linux/ubuntu/