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Install and setup GitLab on Ubuntu 18.04 server.

Install Gitlab

- Update packages

```
$ sudo apt-get update
```

- Install additional packages

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

- Add the GitLab package repository and install the package

Add the GitLab package repository.

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

- Next, install the GitLab package. Change <https://gitlab.example.com> to the URL at which you want to access your GitLab instance. Installation will automatically configure and start GitLab at that URL. For https:// URLs GitLab will automatically request a certificate with Let's Encrypt, which requires inbound HTTP access and a valid hostname. You can also use your own certificate or just use http://.

```
$ sudo EXTERNAL_URL="https://gitlab.example.com" apt-get install gitlab-ce
```

- Browse to the hostname and login.

On your first visit, you'll be redirected to a password reset screen. Provide the password for the initial administrator account and you will be redirected back to the login screen. Use the default account's username **root** to login.

Setup Email Address using Gmail.

- Enable 2-way Authentication by following the [steps here](#)
- Generate App code.
 - Go to your Google Account.
 - On the left navigation panel, click Security.
 - On the "Signing in to Google" panel, click App passwords. If prompted, enter your password.



If you can't get to the page, 2-Step Verification is:

- Not set up for your account
- Set up for security keys only
- At the bottom, click Select app and choose the app you're using.
- Click Select device and choose the device you're using.
- Click Generate.
- Follow the instructions to enter the App password (the 16 character code in the yellow bar) on your device.
- Copy the app password and click Done.
- Setup SMTP server on [Gitlab](#)
 - Open `/etc/gitlab/gitlab.rb`

```
$ sudo vim /etc/gitlab/gitlab.rb
```

- Copy the below content and update email and password generated in previous step

```
gitlab_rails['smtp_enable'] = true
gitlab_rails['smtp_address'] = "smtp.gmail.com"
gitlab_rails['smtp_port'] = 587
gitlab_rails['smtp_user_name'] = "my.email@gmail.com"
gitlab_rails['smtp_password'] = "my-gmail-password"
gitlab_rails['smtp_domain'] = "smtp.gmail.com"
gitlab_rails['smtp_authentication'] = "login"
gitlab_rails['smtp_enable_starttls_auto'] = true
gitlab_rails['smtp_tls'] = false
gitlab_rails['smtp_openssl_verify_mode'] = 'peer'

gitlab_rails['gitlab_email_from'] = 'gitlab@example.com'
gitlab_rails['gitlab_email_reply_to'] = 'noreply@example.com'
```

- Reload the configuration by executing below command

```
$ sudo gitlab-ctl reconfigure
```

- Testing gitlab's ability to send email
 - Open Ruby console

```
$ sudo gitlab-rails console
```

- Execute below command after updating destination email address

```
> Notify.test_email('destination_email@address.com', 'Message Subject',  
'<html><body>Message Body</body></html>').deliver_now
```