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CodeSwap Deployment Plan

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1. Installing the application

1. Install Git
   ```
   sudo apt-get install git
   ```
2. Download the application
   ```
   git clone https://github.com/alexlo03/CodeSwap.git
   ```
3. Navigate to the installation directory
   ```
   cd CodeSwap/Installer
   ```
4. Run the installer
   ```
   chmod 777 Installer.sh && ./Installer.sh
   ```

2. Enabling Twitter Authentication

1. Sign up for a Twitter application
2. In /src/config/initializers/openid.rb, add the following before the last line, replacing `Consumer_Key` and `Consumer_Secret` with the corresponding values supplied by Twitter:
   ```
   provider :twitter, 'Consumer_Key', 'Consumer_Secret'
   ```

3. Generating a Self-Signed Certificate

```
mkdir /etc/ssl/self-signed && cd /etc/ssl/self-signed
openssl genrsa -des3 -out server.key 1024
openssl rsa -in server.key -out server.key.insecure
mv server.key server.key.secure && mv server.key.insecure server.key
openssl req -new -key server.key -out server.csr
openssl x509 -req -days 365 -in server.csr -signkey server.key -out server.crt
```

Script provided by Andrew Waage on A Waage Blog [1]

4. Using an SSL Certificate

1. Place the .crt, .csr, and .key files into CodeSwap/src/config/cert/ss
2. In /CodeSwap/src/script/secure_rails, replace the references to codeswap.* files on line numbers 22 and 24 with the names of the appropriate SSL files.

5. Setting up the Emailer

1. Acquire access to an email account on an SMTP server (ex. Gmail)
2. Open CodeSwap/src/config/environments/development.rb
3. Fill out the following code example with your relevant SMTP server/account settings. (Note: the example below already works for the gmail server).

```
config.action_mailer.smtp_settings = {
    address: "smtp.gmail.com",
    port:  587,
    domain:  "EXAMPLE.COM",
    authentication: "plain",
    enable_starttls_auto: true,
    user_name: "GMAIL_USERNAME",
    password: "GMAIL_PASSWORD"
  }
```

4. In the same file (development.rb), scroll down to the following line:

```
config.action_mailer.default_url_options = {
:host => 'localhost:3000' }
```

5. Replace 'localhost:3000' with the root dns or ip of your server.

6. Setting up the Server

1. Open CodeSwap/src/db/seeds.rb
2. Clear out the file
3. Fill out the following code example with an admin's information and password. This ` will be the only initial account on the system.

```
User.create(:email => 'email@example.com',
      :first_name => 'Bob',
      :last_name => 'Ross',
      :password => 'password',
      :password_confirmation => 'password',
      :role => :admin)
```

4. Repeat step 3 for each admin you wish to have on the database initially. (It is very easy to add them later through the admin homepage)
5. Migrate and seed the database:

```
rake db:migrate && rake db:reset
```

7. Launching the Application

1. Clear any processes running on port 80 and 443.
2. Run the following command:

```
cd /CodeSwap/src/script/ && chmod 777 start_server.sh && ./start_server.sh
```

References

1. http://qugstart.com/blog/linux/quickest-way-to-create-a-self-signed-ssl-certificate-in-ubuntu/