Jenkins - Installation

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Create new EC2 instance

Create a new EC2 instance on AWS and open the following ports:

Port number	Description
22	SSH port
80	Nginx Web Server
8080	Jenkins Server

Install Jenkins

```
wget -q -O - http://pkg.jenkins-ci.org/debian/jenkins-ci.org.key | sudo apt-key add -
sudo sh -c 'echo deb http://pkg.jenkins-ci.org/debian binary/ > /etc/apt/sources.list
sudo apt-get update
sudo apt-get install jenkins
```

Upgrade Jenkins

```
sudo apt-get update
sudo apt-get install jenkins
```

Start Jenkins

- Restart Jenkins

```
sudo service jenkins start
```

Nginx Installation and configuration

- Install Nginx

```
sudo su
apt-get install nginx
```

- Go to **/etc/nginx/sites-available**

```
cd /etc/nginx/sites-available && echo "" > default && vim default
```

- Replace the content of the **default** file by the following content:

```
# Jenkins Configuration
# found on https://wiki.jenkins-ci.org/display/JENKINS/Jenkins+behind+an+NGinX+revers
server {
    listen 80;
    server_name jenkins;

    location / {
        proxy_pass http://localhost:8080;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_connect_timeout 150;
        proxy_send_timeout 100;
        proxy_read_timeout 100;
        proxy_buffers 4 32k;
        client_max_body_size 8m;
        client_body_buffer_size 128k;
    }
}
```

- Restart Nginx

```
/etc/init.d/nginx restart
```

- Try to access http://yourHostName and you should be redirect to Jenkins UI

Generate SSH keypair for BitBucket

- In this section your going to generate the SSH keypair for **root** (for commodity) and **jenkins** user (allows git to push to BitBucket)

```
sudo su
cd ~/.ssh
```

- Generates a SSH keypair with the following name: **id_rsa_bitbucket** (avoid erasing the Chef SSH Key)

```
ssh-keygen -t rsa
```

- Finally change rights and copy these key into the jenkins directory

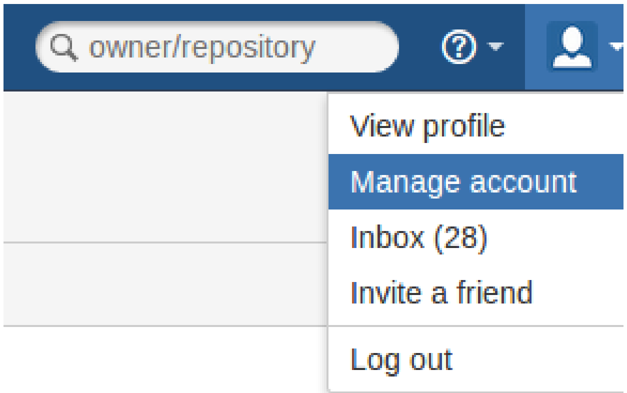
```
mkdir -p /var/lib/jenkins/.ssh/ && cd /var/lib/jenkins/.ssh/ && cp /root/.ssh/id_rsa_
```

Log in BitBucket and copy id_rsa_bitbucket.pub

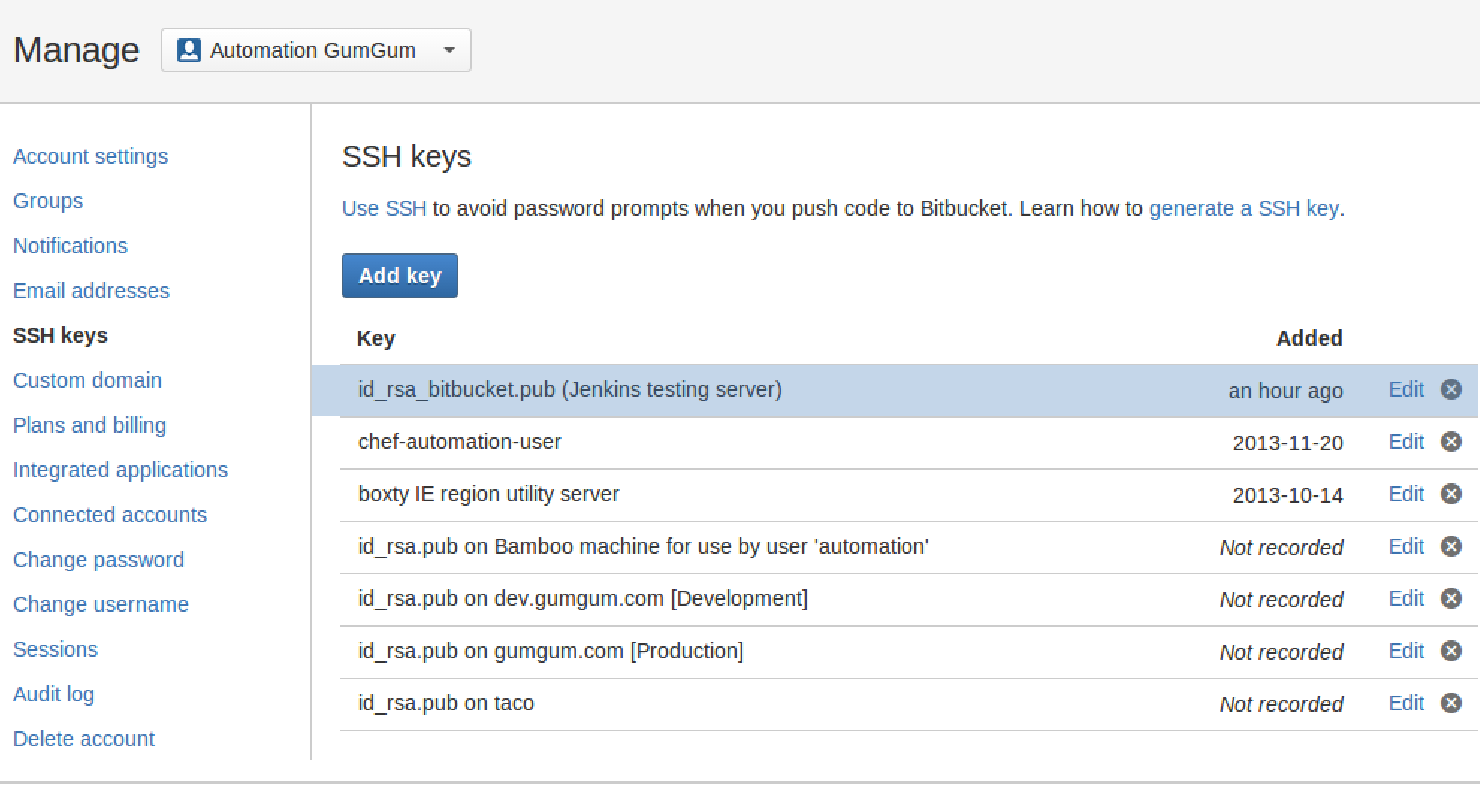
- Log in https://bitbucket.org/ with the following credentials

Username	Password

- Go to manage account



- Add key and copy and paste the content of **id_rsa_bitbucket.pub**



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SSH keys

Use SSH to avoid password prompts when you push code to Bitbucket. Learn how to generate a SSH key.

Add key

Key	Added		
id_rsa_bitbucket.pub (Jenkins testing server)	an hour ago	Edit	⊗
chef-automation-user	2013-11-20	Edit	⊗
boxty IE region utility server	2013-10-14	Edit	⊗
id_rsa.pub on Bamboo machine for use by user 'automation'	*Not recorded*	Edit	⊗
id_rsa.pub on dev.gumgum.com [Development]	*Not recorded*	Edit	⊗
id_rsa.pub on gumgum.com [Production]	*Not recorded*	Edit	⊗
id_rsa.pub on taco	*Not recorded*	Edit	⊗

gumgum Import the GumGum configuration

- SSH your EC2 instance and run the following commands
  - This will create the GumGum's Gradle configuration in */var/lib/jenkins/.gumgum*

```
sudo -i -u jenkins
mkdir -p .gumgum && cd .gumgum && printf "artifactoryUser=xxxxxxx\nartifactoryPasswo
```

- Create a file named **jenkins-env.sh** in */var/lib/jenkins/.gumgum* with the following content
  - This will create the script used to inject variables during the build process

```
#!/bin/bash
```

```
### build.gradle variables
echo artifactoryUser=$artifactoryUser >> gradle.properties
echo artifactoryPassword=$artifactoryPassword >> gradle.properties
echo awsAccessKey=$awsAccessKey  >> gradle.properties
echo awsSecretKey=$awsSecretKey  >> gradle.properties

### Git requirements
git config --global user.email "jenkins@gumgum.com"
git config --global user.name "Jenkins"
```

- Make the script runnable for the jenkins user

```
chmod u+x jenkins-env.sh
```

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