



Thank you for taking this course! I hope you are finding this course valuable. Please post any questions, so that I may answer. Enjoy!

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BELOW ARE THE COMMON COMMANDS USED IN THIS COURSE:

Install Jenkins:

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

Install Java 8:

```
sudo apt install openjdk-8-jdk
```

Install NGINX:

```
sudo apt-get update  
  
sudo apt-get install nginx
```

Check:

```
systemctl status nginx | grep Active  
systemctl status jenkins | grep Active
```

For Configuring NGINX

```
sudo apt upgrade  
ps -ef | grep jenkins
```

```
unlink /etc/nginx/sites-enabled/default  
vim /etc/nginx/conf.d/jenkins.conf
```

```
upstream jenkins {  
    server 127.0.0.1:8080;  
}
```

```
server {  
    listen    80 default;  
    #server_name your_jenkins_site.com;#
```

```
    access_log /var/log/nginx/jenkins.access.log;  
    error_log /var/log/nginx/jenkins.error.log;
```

```
    proxy_buffers 16 64k;  
    proxy_buffer_size 128k;
```

```
    location / {  
        proxy_pass http://jenkins;
```

```
proxy_next_upstream error timeout invalid_header http_500 http_502 http_503 http_504;  
proxy_redirect off;
```

```
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_set_header X-Forwarded-Proto http;
```

```
}
```

```
}
```

```
systemctl reload nginx
```

```
-----
```

```
ls -a ~
```

```
sudo apt install python-pip
```

```
export PATH=$PATH:~/local/bin/
```

```
Jenkins username = syed (you would have your own name)
```

```
-----
```

After you connect to Jenkins using browser:

```
cat /var/lib/jenkins/secrets/initialAdminPassword
```

after running the above command copy the password

f7ed44d089ce4782b7c42a4faefc90berft (you would have your own password)

jenkins-master-smtp

SMTP Username:

AKIAJOKRNBKXWQSE2E27YA (you would have your own username)

SMTP Password:

AqlQayGPhh8bhGXW7CMTtCx0uvqU+iY3BNHYTRGF9MRO/ (you would have your own password)

#!/bin/bash

#update the yum cache

yum update

#install java

yum -y install java-1.8.0-openjdk

#install git

yum -y install git

#install elastic beanstalk CLI

```
/usr/bin/easy_install awsebcli
```

On Red Hat and derivatives, use yum. (we are using this for the build-server)

We are going to install Java8 on build-server along with ebcli, git

```
yum update
```

```
yum -y install java-1.8.0-openjdk
```

```
yum -y install git
```

```
/usr/bin/easy_install awsebcli
```

```
eb --version
```

Connect using Shell:

```
sudo apt-get update
```

```
sudo apt-get install openjdk-8-jdk
```

python --version

On Debian derivatives such as Ubuntu, use APT. use:

```
sudo apt-get install python3.4
```

On Red Hat and derivatives, use yum:

```
sudo yum install python34
```

```
export PATH=~/.local/bin:$PATH
```

```
source ~/.bash_profile
```

```
pip install awscli
```

```
aws configure
```

(here input access keys)

default region is us-east-1

aws ec2 describe instances

#Install eb

pip install awsebcli --upgrade --user

eb --version

Build Execute Shell

#initialize the elastic beanstalk app

eb init <your app name from aws beanstalk> --platform python-3.6 --region us-east-1

#select the development environment for deployment

eb use development

#Deploy the application

eb deploy

#get the health and status information

eb health

eb status

Happy learning!