Homework Cycle 08 - Server Deployment Tasks

Task 1: Deploy Nginx Webserver on Ubuntu (Port 80)

```
ubuntu@ip-172-31-2-90:~$ history
   1 sudo apt-get install nginx -y
   2 sudo systemctl enable nginx
3 sudo systemctl restart nginx
   4 sudo systemctl status nginx
   5 exit
   6 sftp -i "windows-ss.pem" ubuntu@ec2-13-204-45-198.ap-south-1.compute.amazonaws.com
      put file.zip
      put chef-website-template.zip
   9 exit
  10 ssh -i "windows-ss.pem" ubuntu@ec2-13-204-45-198.ap-south-1.compute.amazonaws.com
  11 exit
12 sudo apt-get update -y
  13 sudo apt-get install nginx -y
  14 sudo systemctl enable nginx
  15 sudo systemctl status nginx
16 exit
  17 stfp -i "windows-ss.pem" ubuntu@ec2-13-204-45-198.ap-south-1.compute.amazonaws.com
  18 sftp -i "windows-ss.pem" ubuntu@ec2-13-204-45-198.ap-south-1.compute.amazonaws.com
  19 Exit
```

Steps:

1. Update package lists:

bash

```
sudo apt update
```

2. Install Nginx:

bash

```
sudo apt install nginx -y
```

3. Start and enable Nginx:

bash

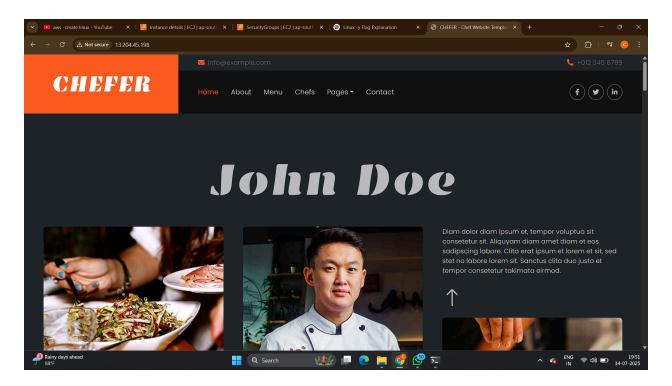
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sudo systemctl start nginx sudo systemctl enable nginx

4. Verify installation:

bash

sudo systemctl status nginx curl localhost



Verification:

- Open web browser and visit <a href="http://<your-server-ip">http://<your-server-ip>
- Should see "Welcome to nginx!" page



Task 2: Deploy Jenkins on Ubuntu (Port 8080)

Steps:

1. Install Java (prerequisite):

bash

sudo apt install openjdk-11-jdk -y

2. Add Jenkins repository:

bash

wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key ad d - sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/ap t/sources.list.d/jenkins.list'

3. Install Jenkins:

bash

sudo apt update sudo apt install jenkins -y

4. Start and enable Jenkins:

bash

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sudo systemctl start jenkins sudo systemctl enable jenkins

5. Check status:

bash

sudo systemctl status jenkins

Verification:

- Access Jenkins at <a href="http://<your-server-ip>:8080">http://<your-server-ip>:8080
- Retrieve initial admin password:

bash

sudo cat /var/lib/jenkins/secrets/initialAdminPassword

Task 3: Deploy VSFTPD File Server with FileZilla

Steps:

1. Install VSFTPD:

bash

sudo apt install vsftpd -y

2. Configure VSFTPD:

bash

sudo nano /etc/vsftpd.conf

Uncomment or add these lines:

text

```
write_enable=YES
local_umask=022
chroot_local_user=YES
allow_writeable_chroot=YES
```

3. Restart VSFTPD:

bash

sudo systemctl restart vsftpd sudo systemctl enable vsftpd

4. Create FTP user:

bash

sudo adduser ftpuser sudo usermod -d /var/www/html ftpuser

FileZilla Setup:

- 1. Download and install FileZilla Client on your local machine
- 2. Connect using:
 - Host: your server IP
 - Username: ftpuser
 - Password: the password you set
 - Port: 21

Task 4: SFTP Command Line Usage

Basic SFTP Commands:

1. Connect to server:

bash

```
sftp -i /path/to/key.pem username@server_ip
```

2. Upload file:

bash

```
put local_file.txt /remote/path/
```

3. Download file:

bash

```
get /remote/file.txt ~/local/path/
```

4. Other useful commands:

bash

```
Is # List remote files
Ils # List local files
cd # Change remote directory
Icd # Change local directory
mkdir # Create remote directory
exit # Quit SFTP session
```

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