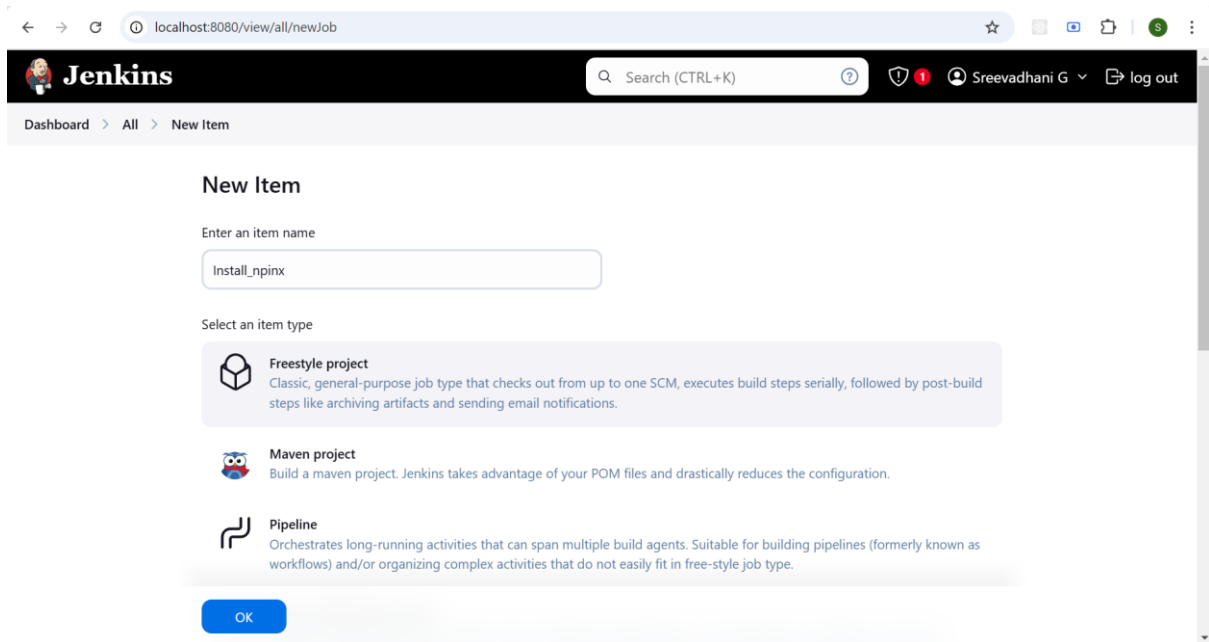


TASK 1: JENKINS

Step 1: Create a new freestyle project named “Install_npinx”



Step 2: Create a directory “/var/lib/jenkins/workspace/html_files” and create index.html file in it

```
sree_ubuntu@sree:~$ sudo visudo
sree_ubuntu@sree:~$ sudo systemctl restart jenkins
sree_ubuntu@sree:~$ mkdir -p /var/lib/jenkins/workspace/html_files
mkdir: cannot create directory '/var/lib/jenkins/workspace/html_files': Permission denied
sree_ubuntu@sree:~$ sudo mkdir -p /var/lib/jenkins/workspace/html_files
o chmod -R 777 /var/lib/jenkins/workspace/html_files
[sudo] password for sree_ubuntu:
Sorry, try again.
[sudo] password for sree_ubuntu:
sree_ubuntu@sree:~$ sudo nano /var/lib/jenkins/workspace/html_files/index.html
sree_ubuntu@sree:~$
```

In index.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Welcome to My Website</title>

<style>

body {

font-family: Arial, sans-serif;

background-color: #f4f4f4;

```
        margin: 0;
        padding: 0;
        text-align: center;
    }
    .container {
        width: 50%;
        margin: 100px auto;
        background: white;
        padding: 20px;
        border-radius: 10px;
        box-shadow: 0px 0px 15px rgba(0, 0, 0, 0.2);
    }
    h1 {
        color: #007bff;
    }
    p {
        font-size: 18px;
        color: #555;
    }
</style>
</head>
<body>
    <div class="container">
        <h1>Welcome to My Nginx Website!</h1>
        <p>This page is hosted using Nginx installed via Jenkins.</p>
    </div>
</body>
</html>
```

Step 3: Open the execute shell and enter the following command

Update and install Nginx

```
sudo apt update
```

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

Start and enable Nginx service

```
sudo systemctl start nginx
```

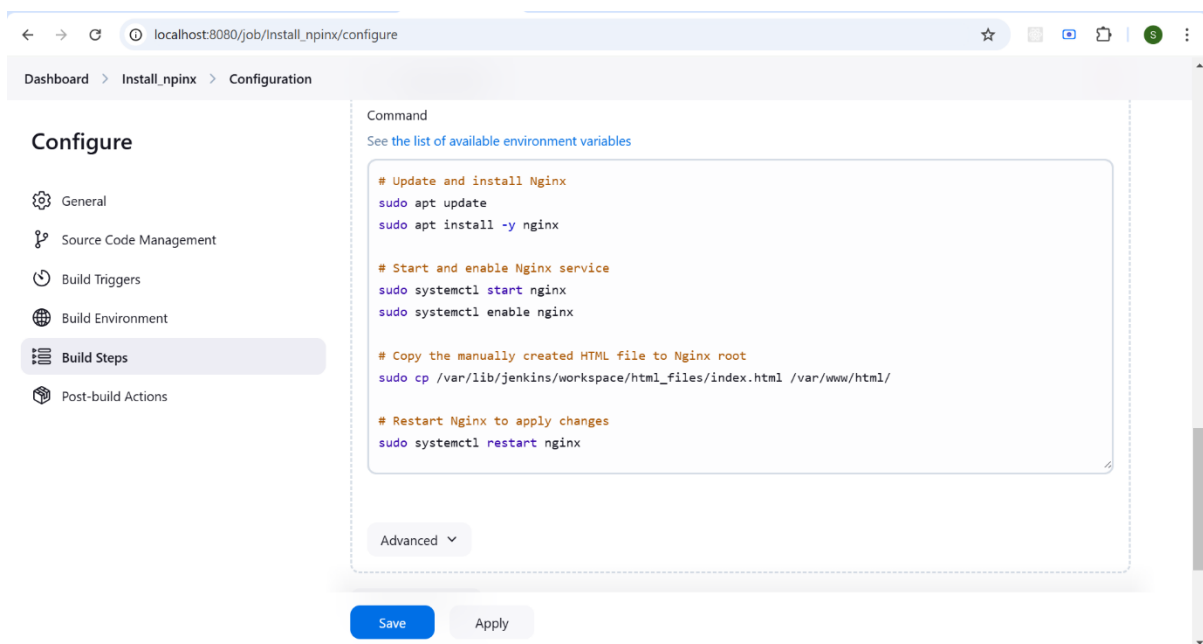
```
sudo systemctl enable nginx
```

Copy the manually created HTML file to Nginx root

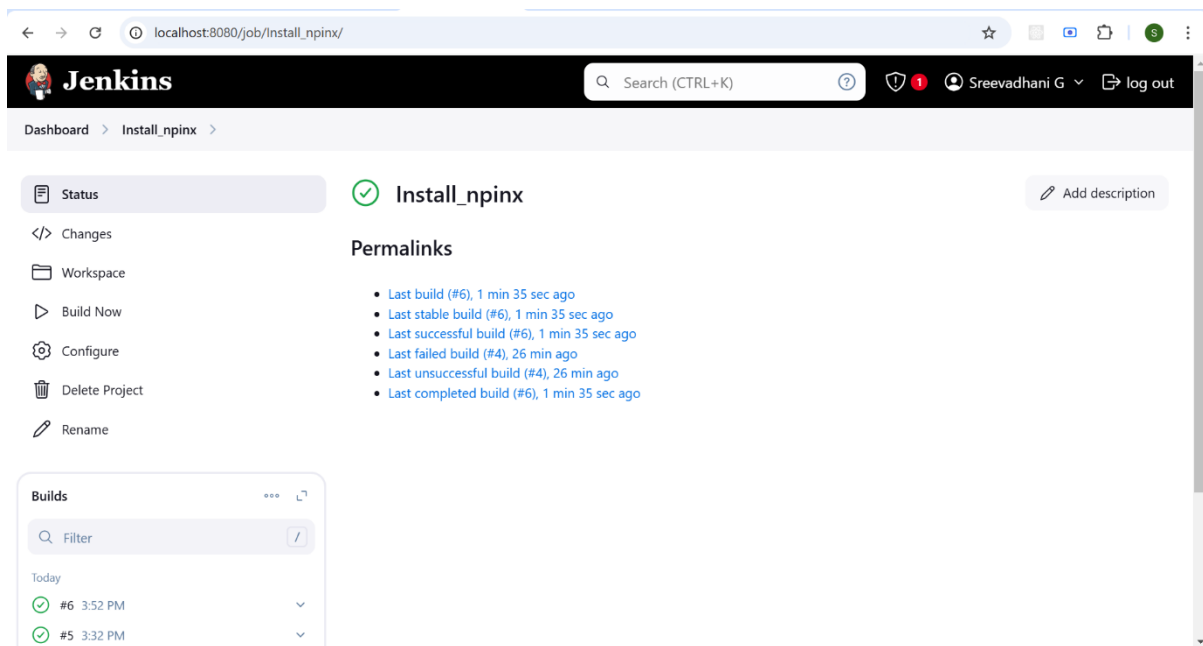
```
sudo cp /var/lib/jenkins/workspace/html_files/index.html /var/www/html/
```

Restart Nginx to apply changes

```
sudo systemctl restart nginx
```

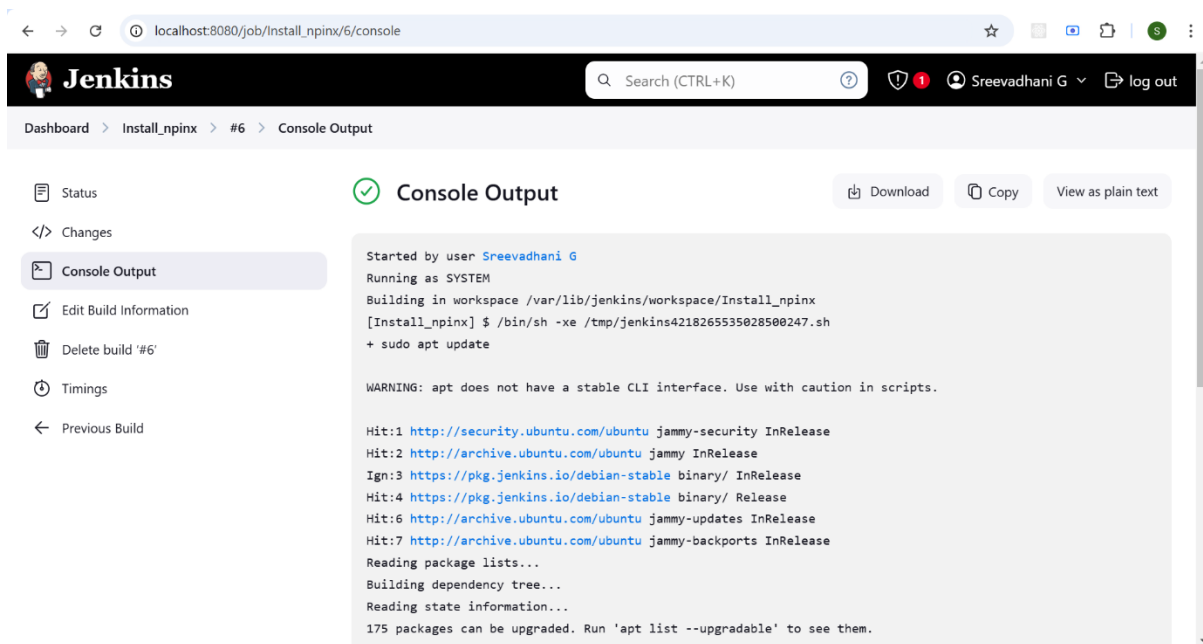


Step 4: Run the Jenkins Job by clicking on Build Now



The screenshot shows the Jenkins web interface for a job named 'Install_npinx'. The browser address bar indicates the URL is `localhost:8080/job/Install_npinx/`. The Jenkins logo and a search bar are at the top. The left sidebar contains a menu with options: Status, Changes, Workspace, Build Now, Configure, Delete Project, and Rename. The main content area shows the job's status as 'Install_npinx' with a green checkmark icon. Below this, there are 'Permalinks' for various build types: Last build (#6), Last stable build (#6), Last successful build (#6), Last failed build (#4), Last unsuccessful build (#4), and Last completed build (#6). At the bottom left, a 'Builds' section shows a list of recent builds, including build #6 at 3:52 PM and build #5 at 3:32 PM, both with green status icons.

Step 5: Check the Console Output to verify



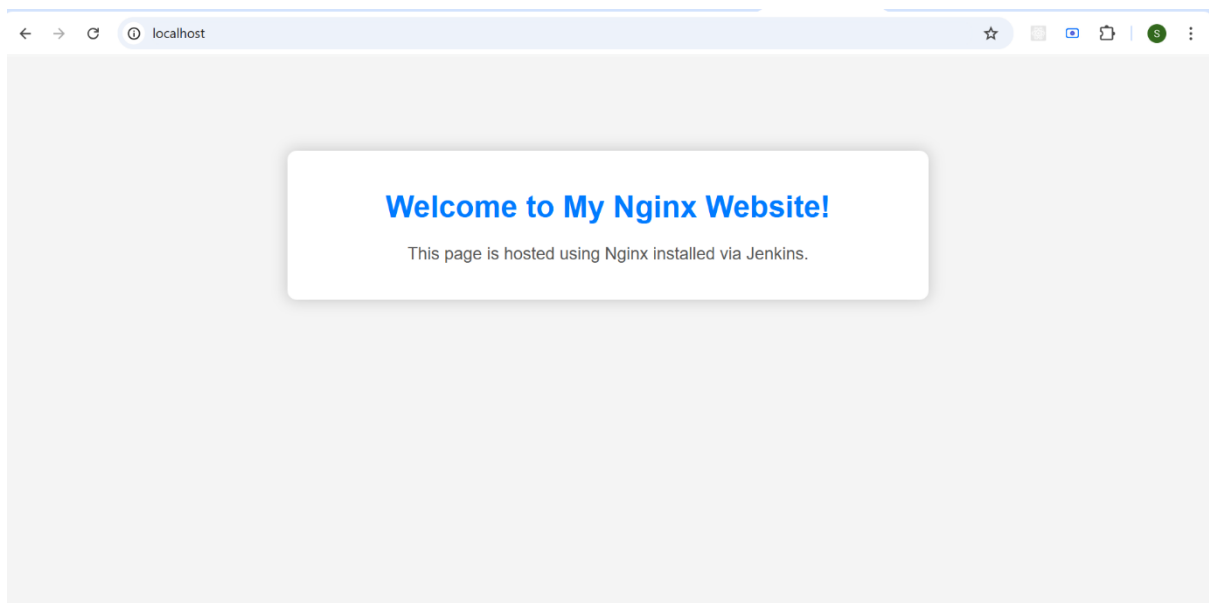
The screenshot shows the Jenkins console output for build #6 of the 'Install_npinx' job. The browser address bar indicates the URL is `localhost:8080/job/Install_npinx/6/console`. The Jenkins logo and search bar are at the top. The left sidebar contains a menu with options: Status, Changes, Console Output, Edit Build Information, Delete build '#6', Timings, and Previous Build. The main content area shows the console output with a green checkmark icon. The output text is as follows:

```
Started by user Sreevadhani G
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/Install_npinx
[Install_npinx] $ /bin/sh -xe /tmp/jenkins4218265535028500247.sh
+ sudo apt update

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

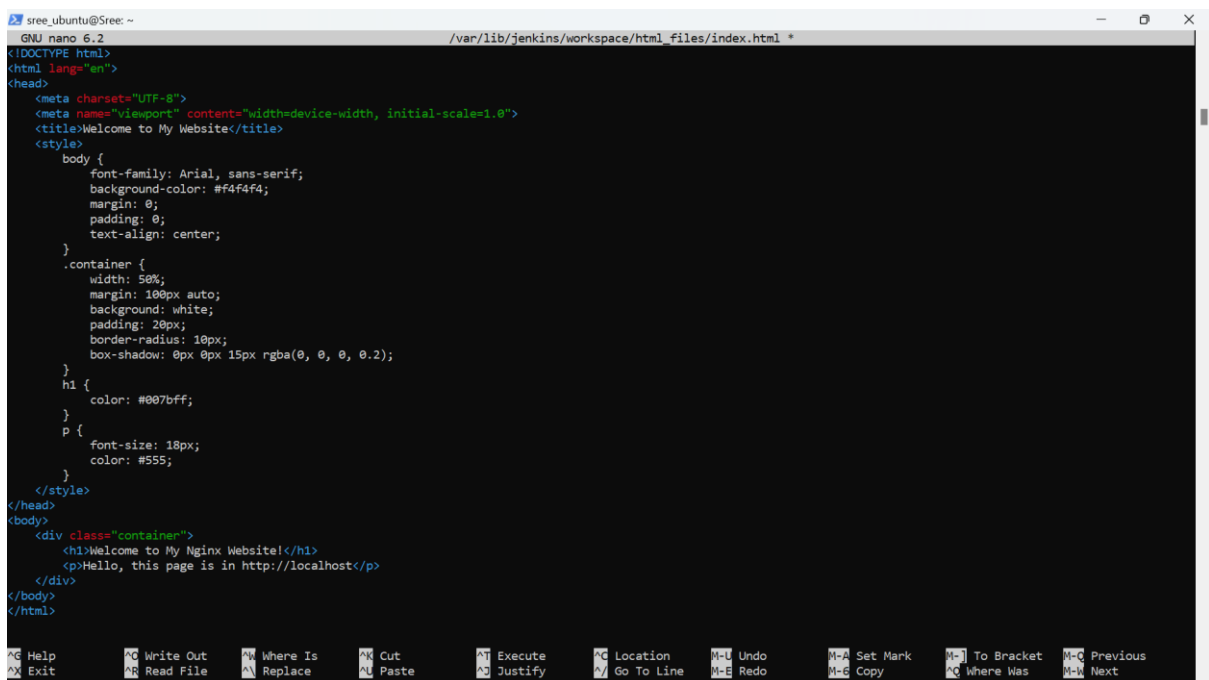
Hit:1 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:2 http://archive.ubuntu.com/ubuntu jammy InRelease
Ign:3 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:4 https://pkg.jenkins.io/debian-stable binary/ Release
Hit:6 http://archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:7 http://archive.ubuntu.com/ubuntu jammy-backports InRelease
Reading package lists...
Building dependency tree...
Reading state information...
175 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

Step 5: Go to <http://localhost> and verify the output



Step 6: Check whether the changes to the index.html reflects to the output

In index.html



←


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localhost:8080/job/Install_nginx/7/console

☆

S

 **Jenkins**

Search (CTRL+K)

 1

Sreevadhani G

log out

Dashboard > Install_nginx > #7 > Console Output

Status

Changes

Console Output

Edit Build Information

Delete build '#7'

Timings

Previous Build

✓ Console Output

Download

Copy

View as plain text

Started by user Sreevadhani G

Running as SYSTEM

Building in workspace /var/lib/jenkins/workspace/Install_nginx

[Install_nginx] \$ /bin/sh -xe /tmp/jenkins17252463604263409016.sh

+ sudo apt update

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

Hit:1 <http://archive.ubuntu.com/ubuntu> jammy InRelease

Hit:2 <http://security.ubuntu.com/ubuntu> jammy-security InRelease

Hit:3 <http://archive.ubuntu.com/ubuntu> jammy-updates InRelease

Ign:4 <https://pkg.jenkins.io/debian-stable> binary/ InRelease

Hit:5 <http://archive.ubuntu.com/ubuntu> jammy-backports InRelease

Hit:6 <https://pkg.jenkins.io/debian-stable> binary/ Release

Reading package lists...

Building dependency tree...

←

→

↻

localhost

☆

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Welcome to My Nginx Website!

Hello, this page is in <http://localhost>