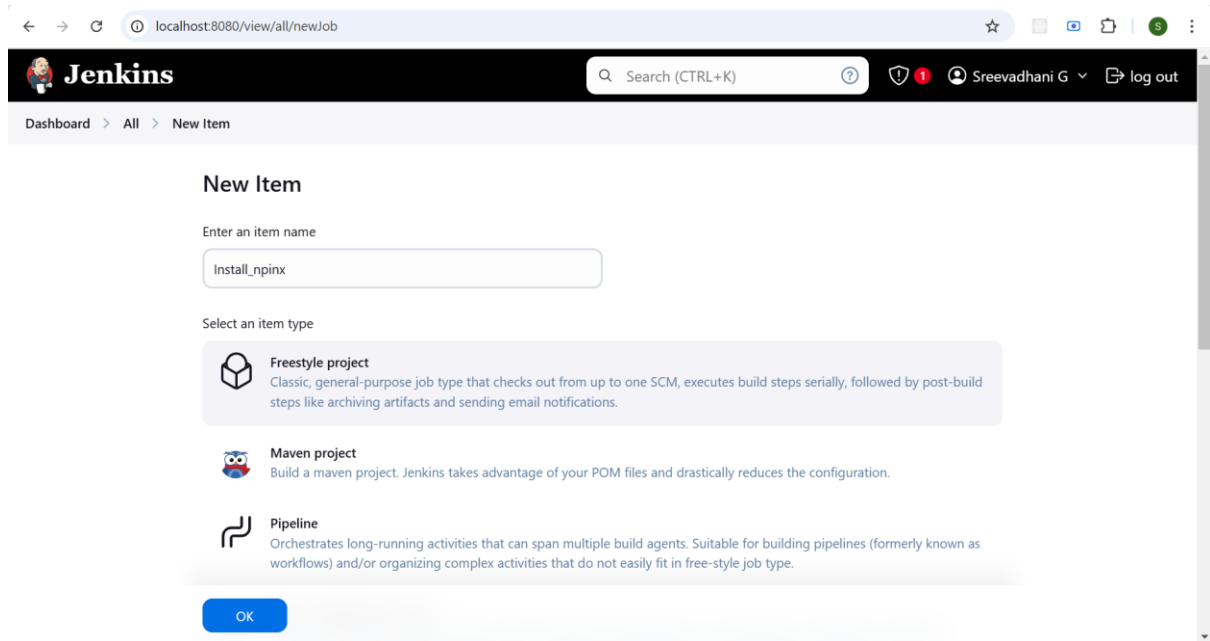


TASK 1

CREATE A SIMPLE FREESTYLE JOB TO INSTALL NGINX ON YOUR SERVER (TOOLS: JENKINS AND UBUNTU VM)

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

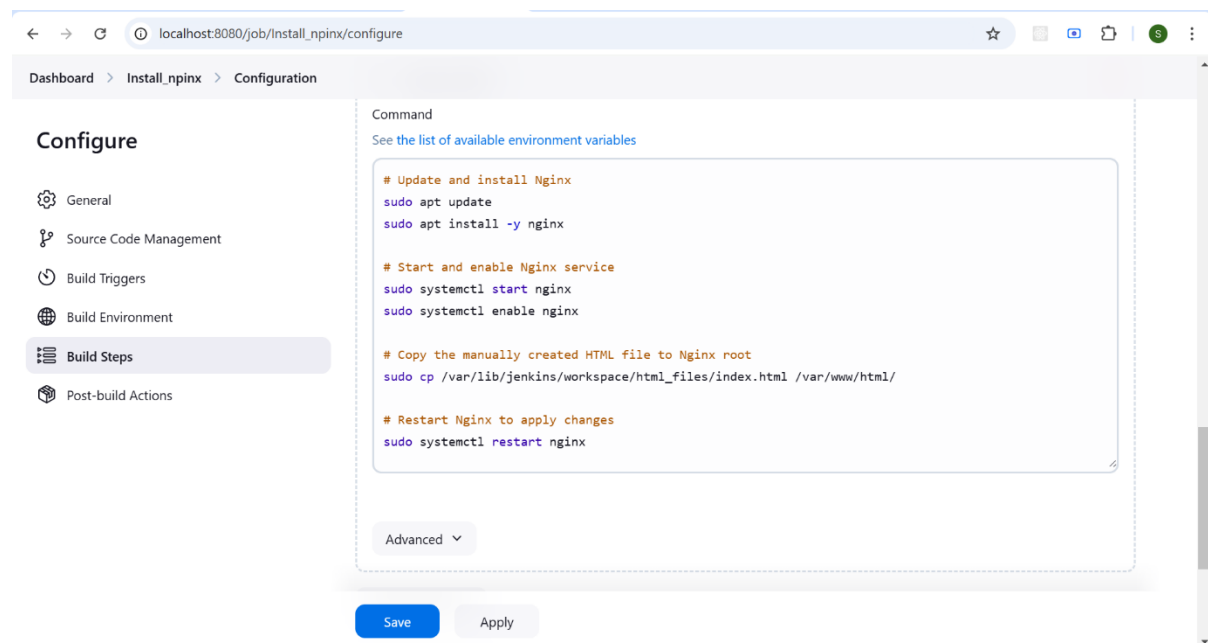
sudo systemctl enable nginx

Copy the manually created HTML file to Nginx root

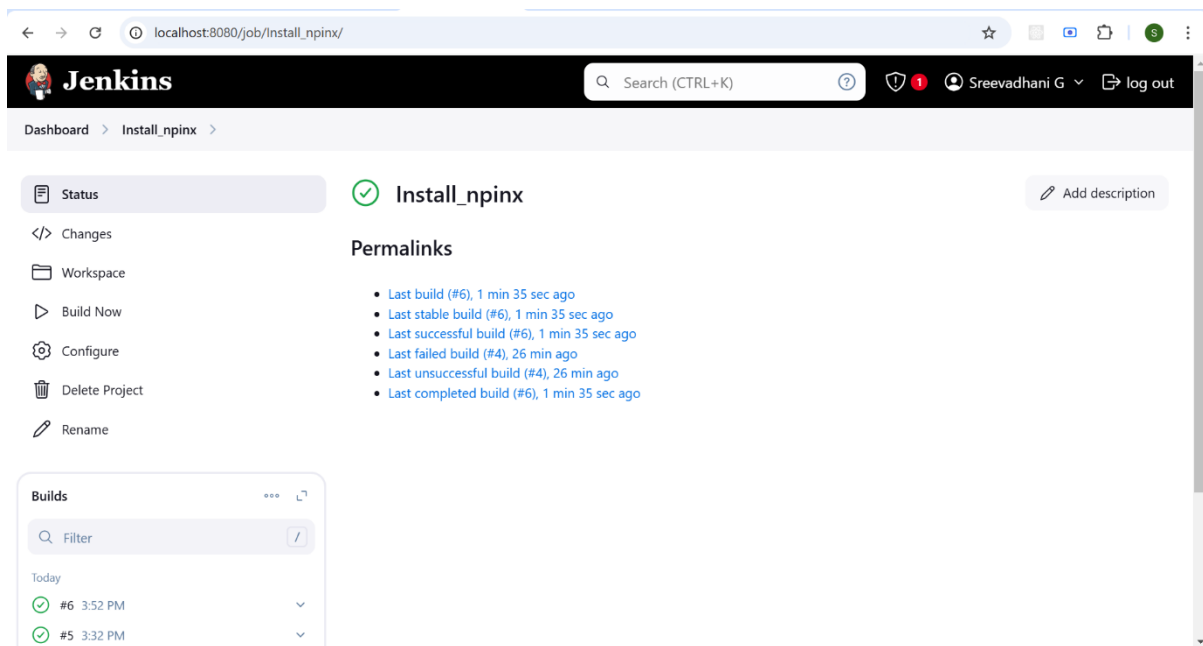
sudo cp /var/lib/jenkins/workspace/html_files/index.html /var/www/html/

Restart Nginx to apply changes

sudo systemctl restart nginx



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



localhost:8080/job/Install_npinx/

Jenkins

Search (CTRL+K)

Sreevadhani G log out

Dashboard > Install_npinx >

Status

Install_npinx

Add description

Changes

Workspace

Build Now

Configure

Delete Project

Rename

Builds

Filter

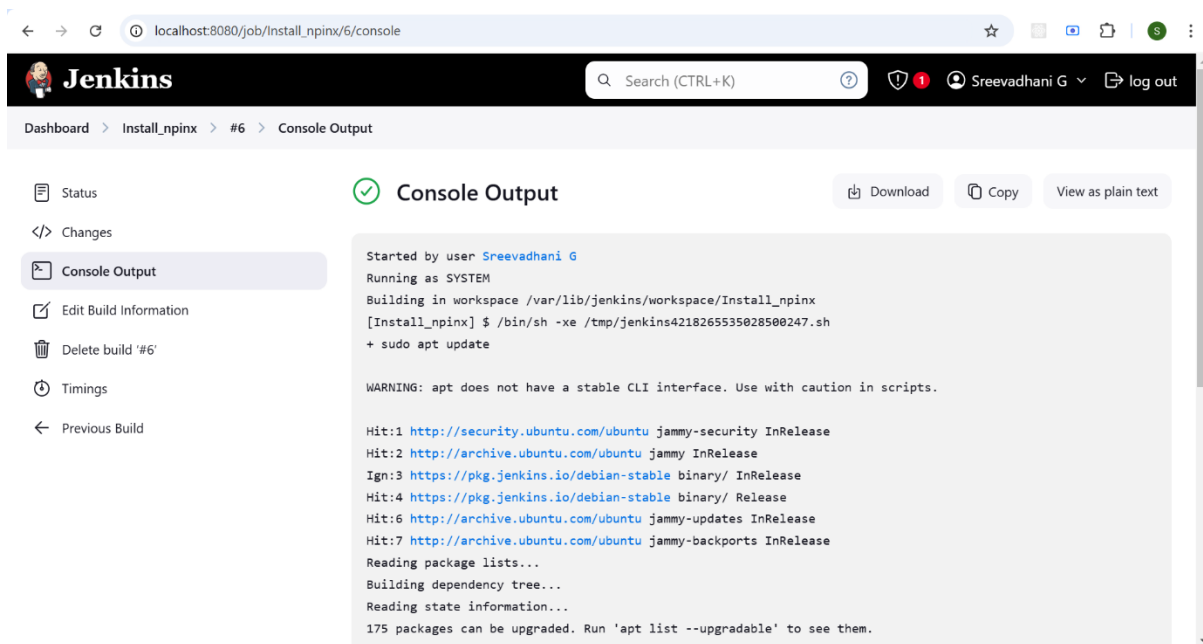
Today

- #6 3:52 PM
- #5 3:32 PM

Permalinks

- Last build (#6), 1 min 35 sec ago
- Last stable build (#6), 1 min 35 sec ago
- Last successful build (#6), 1 min 35 sec ago
- Last failed build (#4), 26 min ago
- Last unsuccessful build (#4), 26 min ago
- Last completed build (#6), 1 min 35 sec ago

Step 5: Check the Console Output to verify



localhost:8080/job/Install_npinx/6/console

Jenkins

Search (CTRL+K)

Sreevadhani G log out

Dashboard > Install_npinx > #6 > Console Output

Status

Console Output

Edit Build Information

Delete build '#6'

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_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

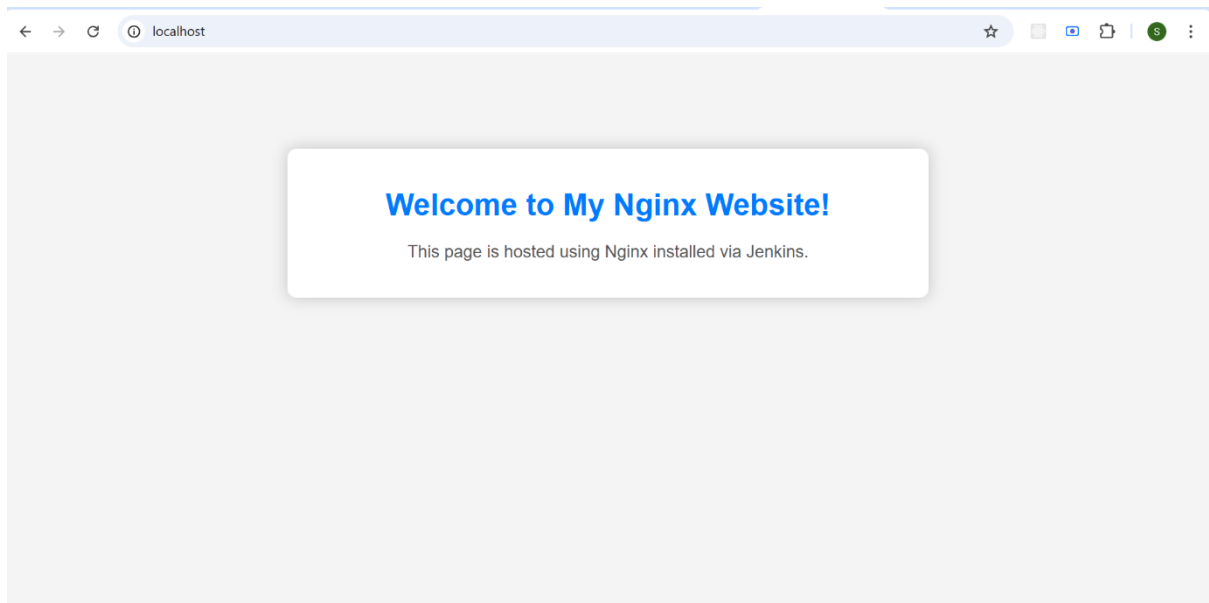
Reading package lists...

Building dependency tree...

Reading state information...

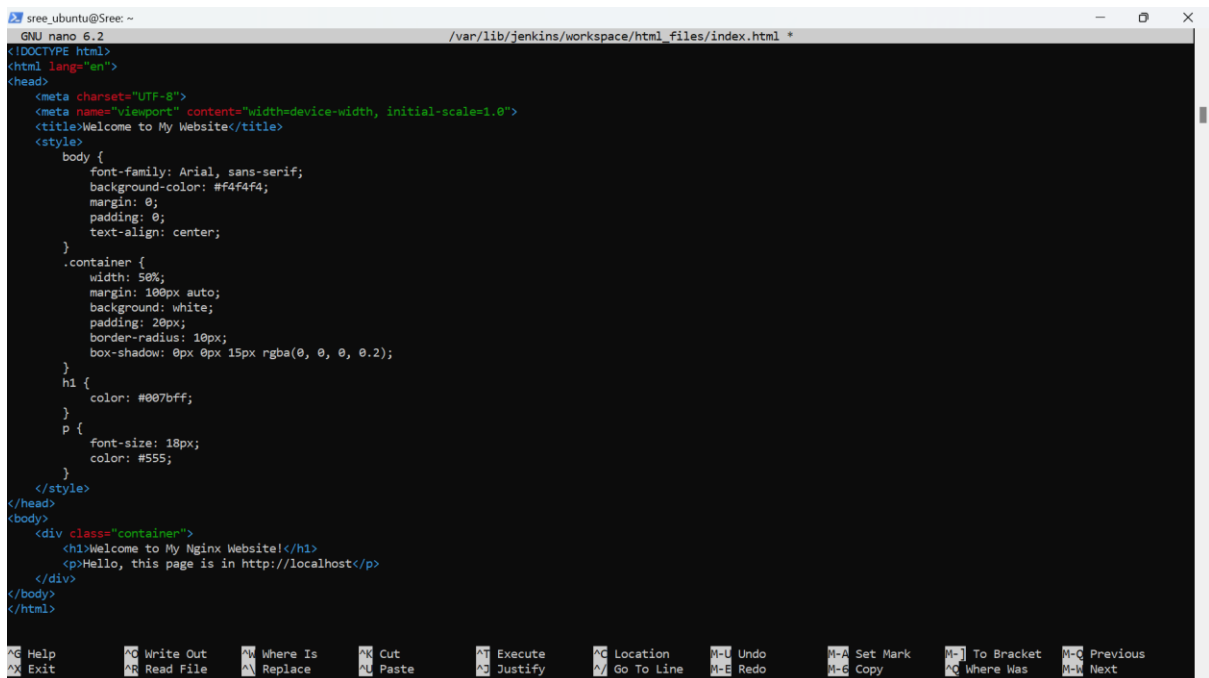
175 packages can be upgraded. Run 'apt list --upgradable' to see them.

Step 6: Go to <http://localhost> and verify the output



Step 7: Check whether the changes to the index.html reflects to the output

In index.html




←

→


↺

localhost:8080/job/Install_nginx/7/console

☆

 **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

☆

Welcome to My Nginx Website!

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