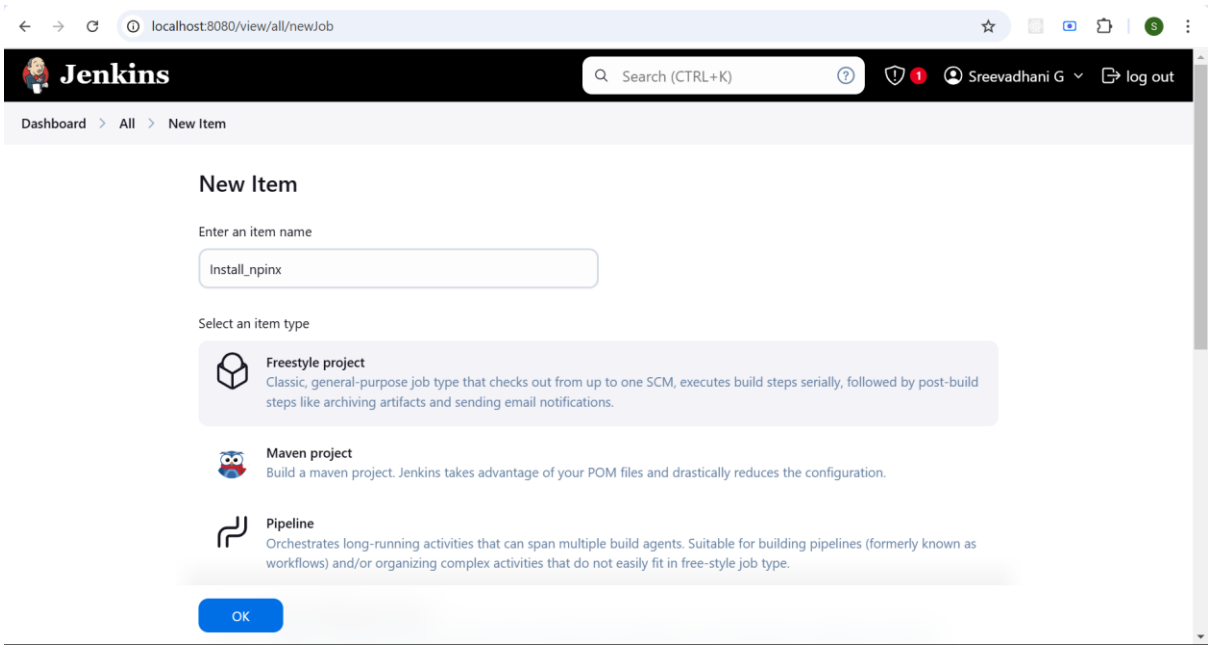
TASK 1

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

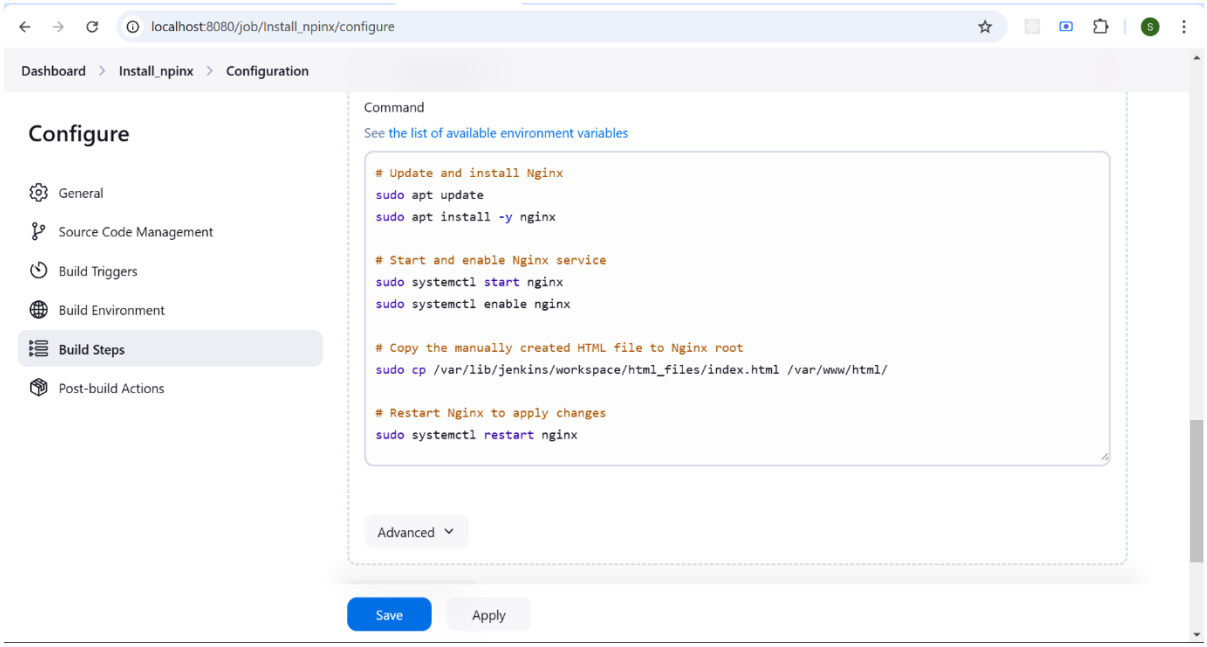
sudo systemctl enable nginx

Copy the manually created HTML file to Nginx root

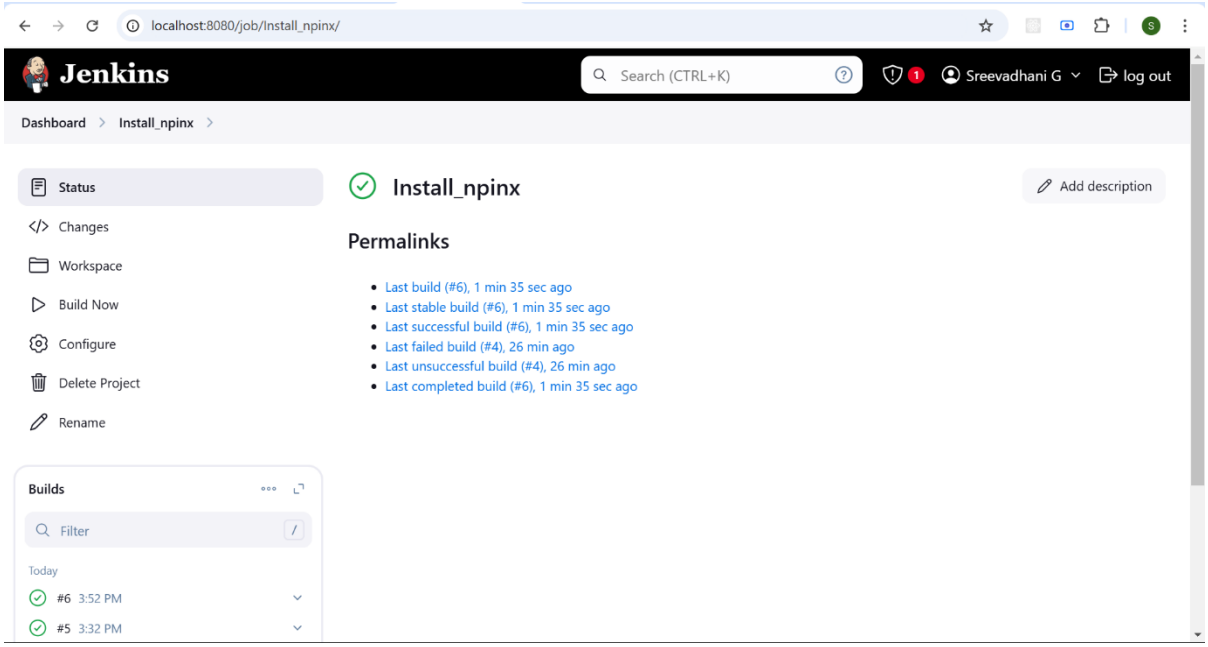
sudo cp /var/lib/jenkins/workspace/html_files/index.html /var/www/html/

Restart Nginx to apply changes

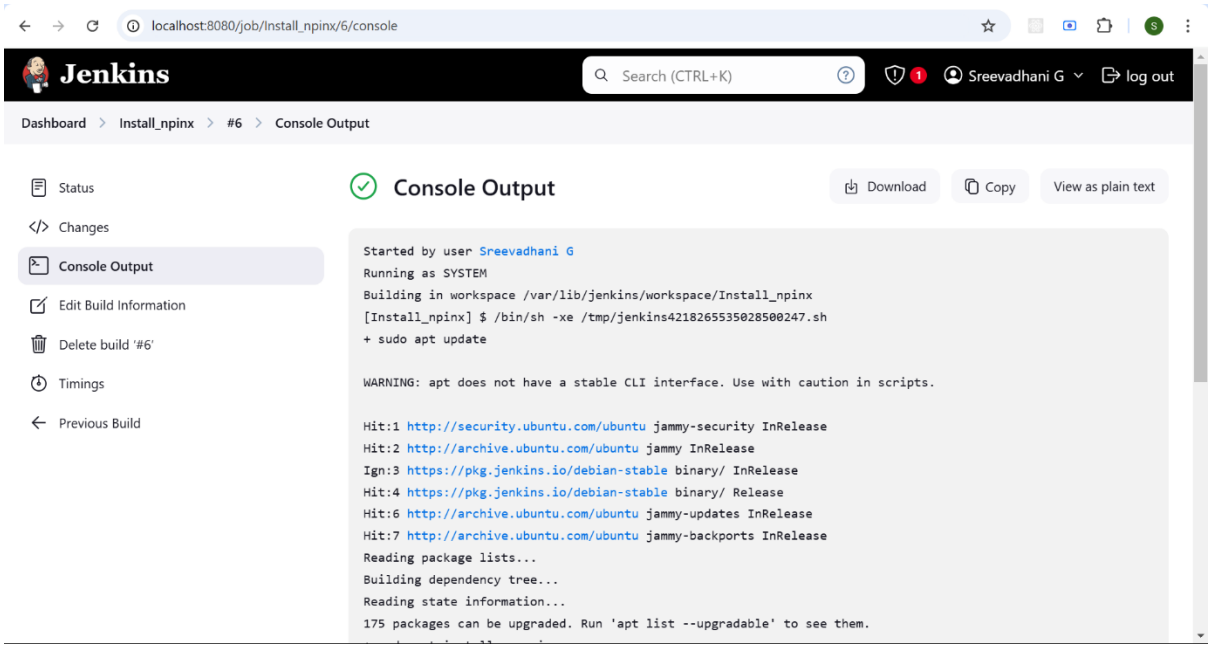
sudo systemctl restart nginx



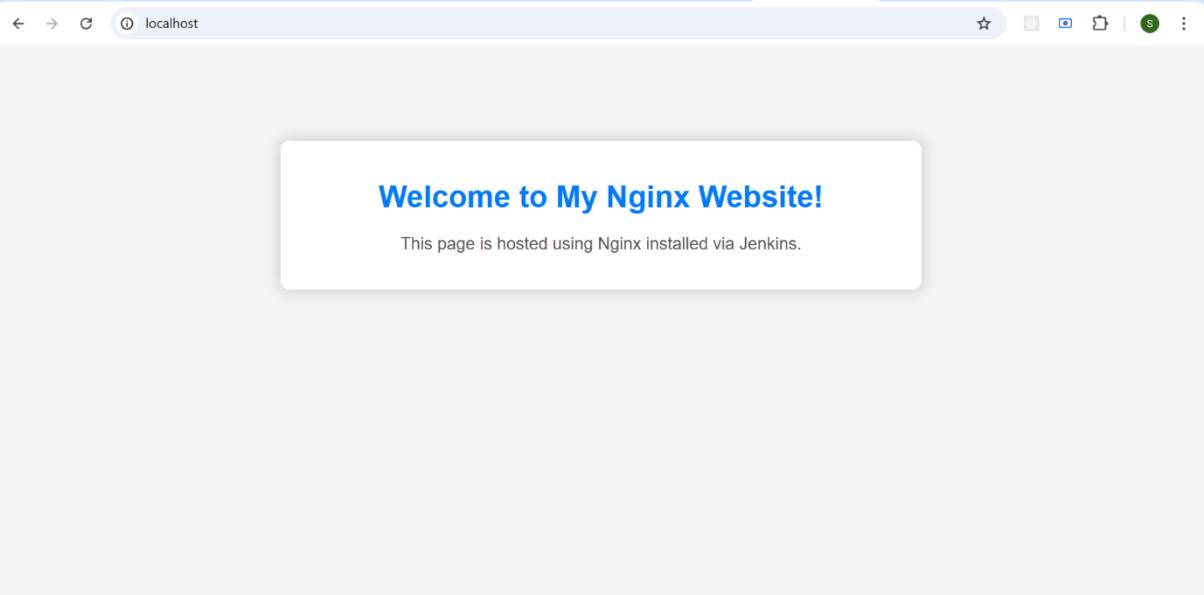
Step 4: Run the Jenkins Job by clicking on Build Now



Step 5: Check the Console Output to verify

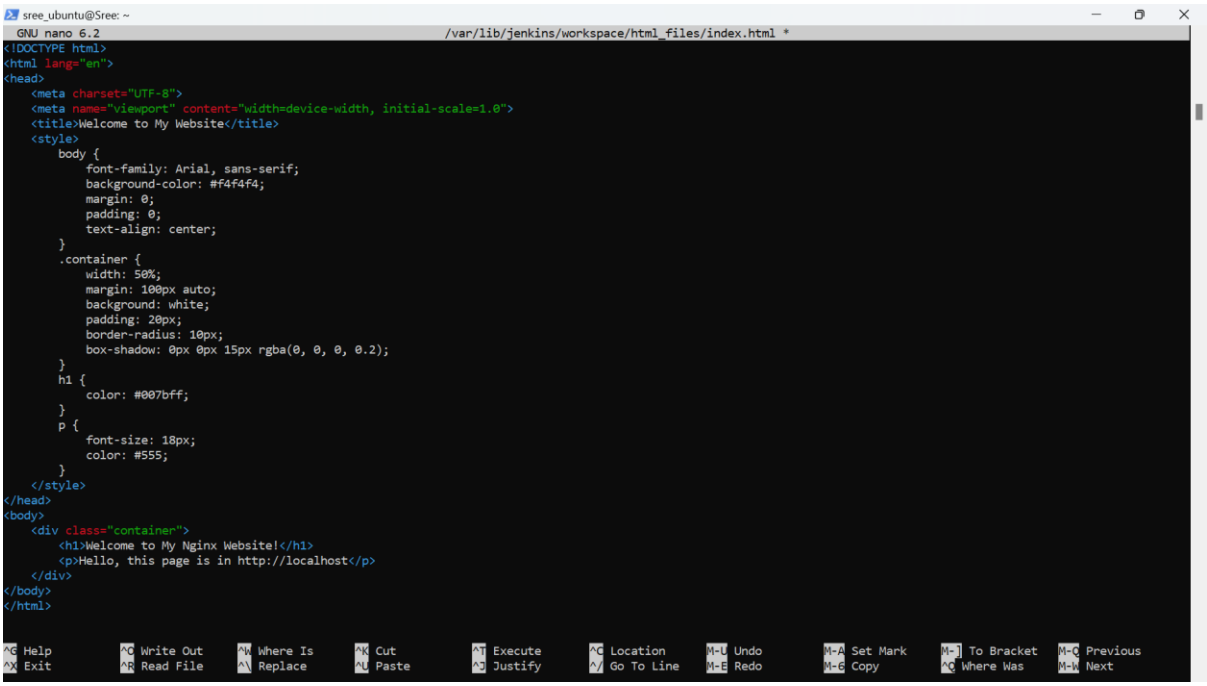


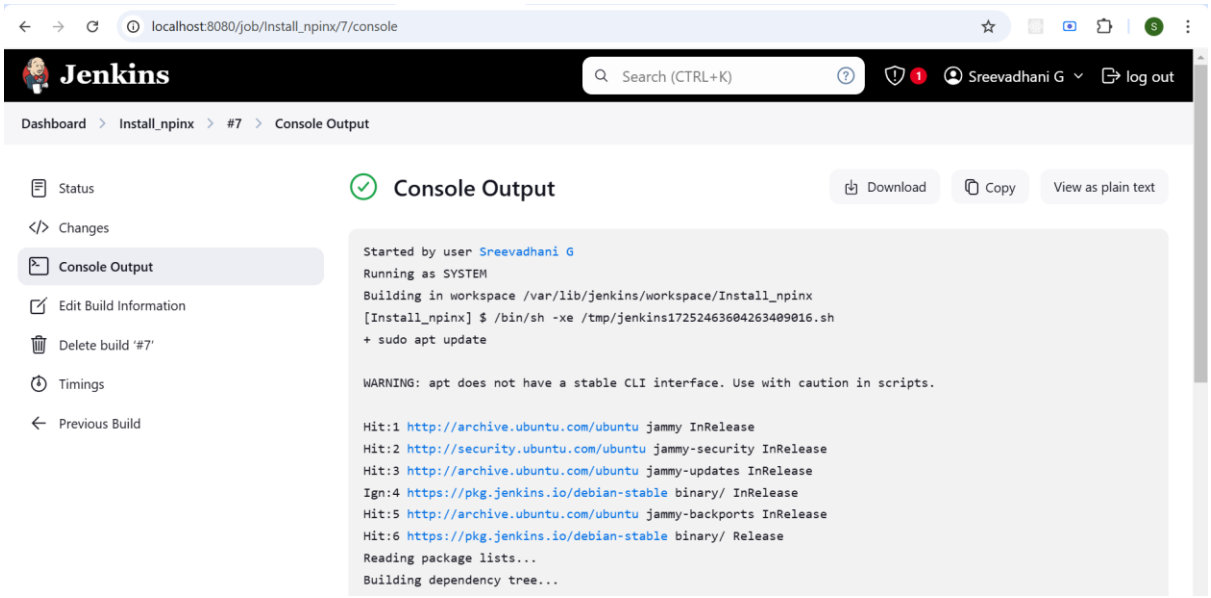
Step 6: Go to http://localhost and verify the output

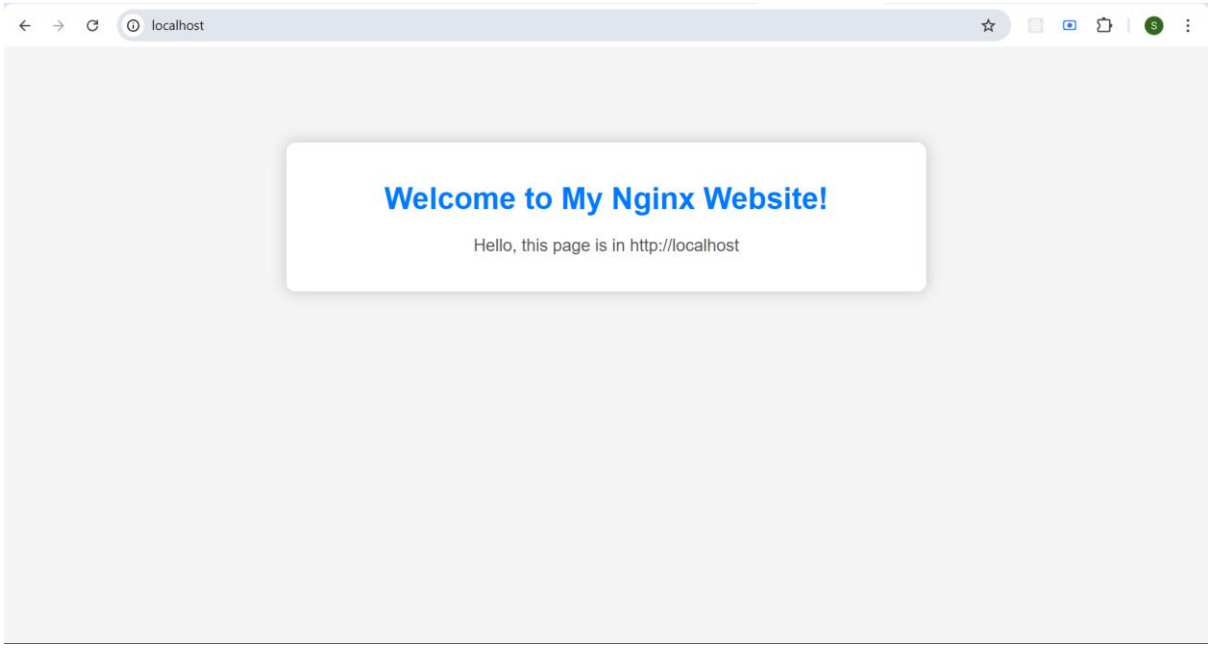


Step 7: Check whether the changes to the index.html reflects to the output

In index.html




localhost:8080/job/Install_npinx/7/console
Jenkins
Search (CTRL+K)
Sreevadhani G
log out
Dashboard > Install_npinx > #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_npinx
[Install_npinx] $ /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