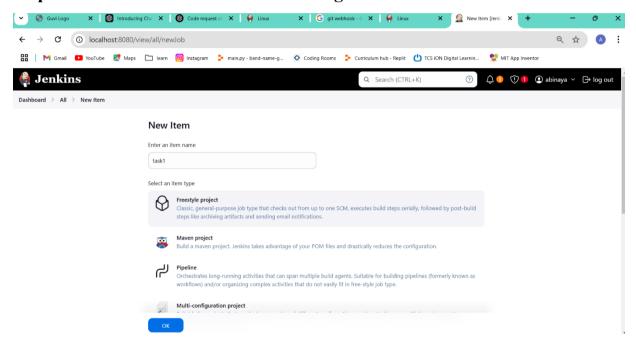
### TASK 1

# Create a simple FreeStyle Job to Install Nginux on you server (tools:Jenkins,Ubuntu vm)

### Step 1: Create a Jenkins Job to Install Nginx:



- Open Jenkins Dashboard.
- Click on "New Item"  $\rightarrow$  "Freestyle Project"  $\rightarrow$  Name it task1.
- Click OK.

### Step 2: Creating a directory and creating index.html file in it:

sudo mkdir -p /var/lib/jenkins/workspace/html\_files sudo chmod -R 777 /var/lib/jenkins/workspace/html\_files sudo nano /var/lib/jenkins/workspace/html\_files/index.html

```
abinaya@ABINAYA:~  

abinaya@ABINAYA:~  

sudo visudo [sudo] password for abinaya:
Sorry, try again.
[sudo] password for abinaya:
visudo: /etc/sudoers.tmp unchanged
abinaya@ABINAYA:~  

sudo mod -  

rowsya@ABINAYA:~  

sudo chmod -  

rowsya@ABINAYA:~  

sudo chmod -  

rowsya@ABINAYA:~  

sudo nano /var/lib/jenkins/workspace/html_files
abinaya@ABINAYA:~  

sudo nano /var/lib/jenkins/workspace/html_files/index.html
abinaya@ABINAYA:~  

sudo nano /var/lib/jenkins/workspace/html_files/index.html
```

```
margin-left: auto;
index.hmtl:
<!DOCTYPE html>
<html lang="en">
                                                     nav a {
                                                       margin: 0 15px;
<head>
 <meta charset="UTF-8">
                                                       text-decoration: none;
                                                       color: #333;
 <meta name="viewport"
content="width=device-width, initial-
                                                       font-weight: bold;
scale=1">
 <title>Guvi Home</title>
                                                      .hero {
 <style>
                                                       background:
  /* Basic CSS styling for layout */
                                                   url('https://www.guvi.in/images/hero-
                                                   bg.jpg') no-repeat center center;
  body {
   margin: 0;
                                                       background-size: cover;
   font-family: Arial, sans-serif;
                                                       color: #fff;
                                                       padding: 100px 20px;
   background-color: #f2f2f2;
                                                       text-align: center;
  header {
   background-color: #ffffff;
                                                      .hero h1 {
                                                       font-size: 48px;
   padding: 10px 20px;
                                                       margin-bottom: 20px;
   display: flex;
   align-items: center;
   box-shadow: 0 \text{ 2px 4px rgba}(0,0,0,0.1);
                                                     .hero p {
                                                       font-size: 18px;
                                                       margin-bottom: 30px;
  header img {
   height: 40px;
                                                      .hero a {
                                                       display: inline-block;
  nav {
```

```
background-color: #007BFF;
                                                    <img
                                                 src="https://www.guvi.in/images/guvi-
   color: #fff;
                                                 logo.svg" alt="Guvi Logo">
   padding: 12px 25px;
                                                   </a>
   text-decoration: none;
                                                   <!-- Navigation Menu -->
   border-radius: 4px;
                                                   <nav>
   font-size: 16px;
                                                    <a href="#">Courses</a>
  }
                                                    <a href="#">About</a>
  .container {
                                                    <a href="#">Contact</a>
   padding: 40px 20px;
                                                    <a href="#">Login</a>
   background-color: #fff;
                                                   </nav>
   margin: 20px auto;
                                                  </header>
   max-width: 1200px;
   box-shadow: 0.2px 4px rgba(0,0,0,0.1);
                                                  <!-- Hero Section -->
                                                  <section class="hero">
  footer {
                                                   <h1>Welcome to Guvi</h1>
   background-color: #333;
                                                   Empowering you with coding skills
                                                 for the future.
   color: #fff:
                                                   <a href="#">Get Started</a>
   text-align: center;
                                                  </section>
   padding: 15px;
  }
                                                  <!-- Main Content Section -->
 </style>
                                                  <div class="container">
</head>
                                                   <h2>Our Courses</h2>
<body>
                                                   Explore our diverse range of courses
 <header>
                                                 designed to help you master the latest
                                                 technologies in coding, data science, and
  <!-- Guvi Logo -->
                                                 more.
  <a href="index.html">
                                                   <!-- Additional content can be added
                                                 here -->
```

```
</div>
</footer>
<!-- Footer -->
<footer>
&copy; 2025 Guvi. All rights
reserved.
```

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

```
# Create a directory for logs or temporary files mkdir file5
```

```
# Update system packages sudo apt update && sudo apt upgrade -y
```

# Install Nginx if not installed sudo apt install nginx -y

# Start and enable Nginx service sudo systemctl start nginx sudo systemctl enable nginx

# Check if Nginx is running systemetl status nginx

# Update package list again sudo apt update

# Copy the HTML file from Jenkins workspace to Nginx document root sudo cp /var/lib/jenkins/workspace/html files/index.html /var/www/html/

# # Restart Nginx to apply changes sudo systemctl restart nginx

```
mkdir file5
sudo apt update && sudo apt upgrade -y
sudo apt install nginx -y
sudo systemctl start nginx
sudo systemctl enable nginx
systemctl status nginx
sudo apt update
# Copy the HTML file to the Nginx document root
sudo cp /var/lib/jenkins/workspace/html_files/index.html /var/www/html/
sudo systemctl restart nginx
```

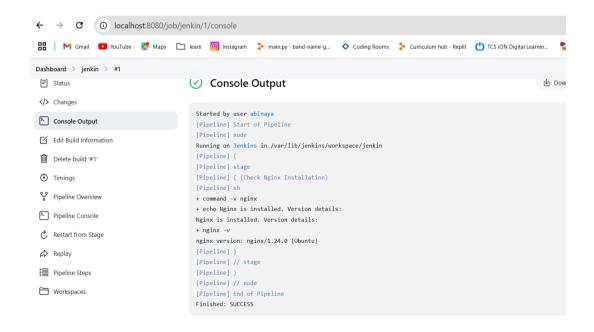
#### Step 4: Run the Jenkins Job

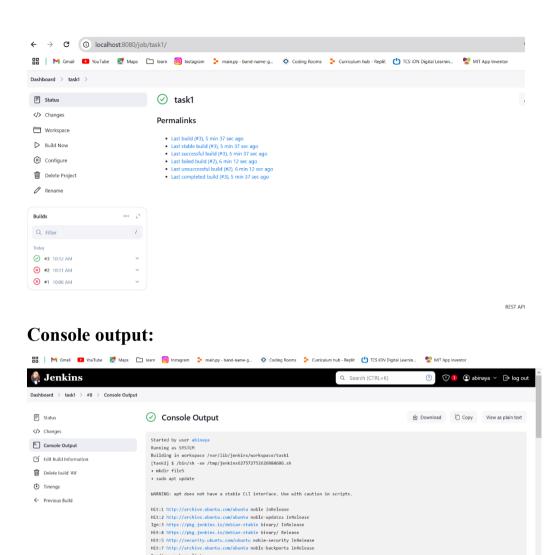
1. Click on "Build Now" to start the job.

### Step 5: Verify the Build and Check Console Output

- 1. After the build finishes, click on "Console Output" to verify if there are any errors.
- 2. Ensure that all the commands executed successfully.

### Verifying nginx is installed through jankins:





# **Step 6: Verify the Output**

1. Open a browser and go to <a href="http://localhost:80">http://localhost:80</a>.

Hit:7 http://archive.ubuntu. Reading package lists... Building dependency tree... Reading state information... All packages are up to date. + sudo apt upgrade -y

2. You should see the GUVI webpage hosted via Jenkins and Nginx with the content specified in the index.html file.

