## **TASK 1 - Run Nginx using Jenkins**

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Aim:

To install and run the Nginx web server on an Ubuntu system using Jenkins. **Steps to Run the Task:** 

Step 1: Access Jenkins

Open Jenkins in a web browser: http://your-server-ip:8080

Login with your credentials.

Step 2: Create a New Jenkins Job

Click on New Item  $\rightarrow$  Enter a job name  $\rightarrow$  Select Freestyle project  $\rightarrow$  Click OK.

Step 3: Add Execute Shell Build Step

Scroll to the Build section.

Click Add build step  $\rightarrow$  Select Execute Shell.

Enter the following commands:

Commands to Install and Run Nginx:

#!/bin/bash echo "Updating package list..." sudo apt update

echo "Installing Nginx..." sudo apt install -y nginx

echo "Starting Nginx service..." sudo systemctl start nginx sudo systemctl enable nginx

echo "Allowing firewall access..." sudo ufw allow 'Nginx Full'

echo "Checking Nginx status..." systemctl status nginx

Step 5: Save and Run the Job

Click Save and then Build Now.

Monitor the Console Output to verify installation.

Step 6: Verify Nginx Installation

You should see the Nginx default welcome page.



