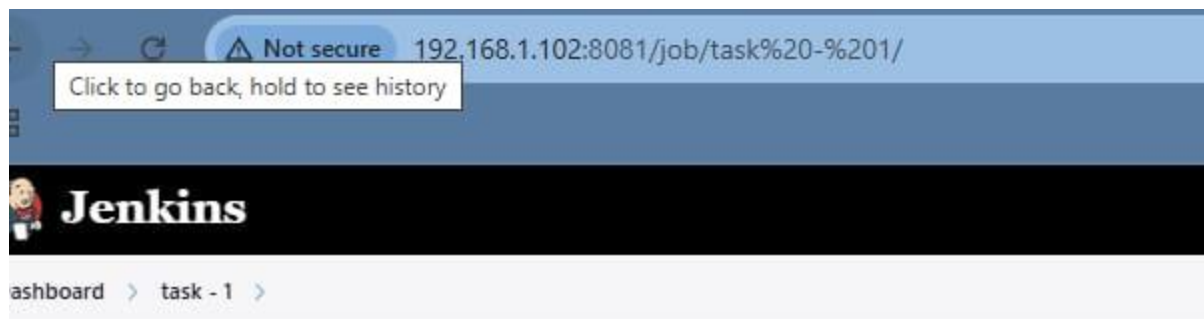


Installing and Configuring Nginx using Jenkins

In this assignment, I used **Jenkins** to automate the installation and configuration of **Nginx** on an Ubuntu system. I created a **Freestyle Project** in Jenkins and added a shell script in the build step to:

1. **Update package lists** using `sudo apt update`.
2. **Install Nginx** using `sudo apt install -y nginx`.
3. **Enable and start the Nginx service** using `sudo systemctl enable nginx` and `sudo systemctl start nginx`.
4. **Allow HTTP traffic (port 80)** through the firewall using `sudo ufw allow 80/tcp` and `sudo ufw reload`.
5. **Verify Nginx status** using `sudo systemctl status nginx --no-pager`.

After successfully building the project in Jenkins, I accessed **Nginx's default web page** using `http://127.0.0.1:80`. Finally, I verified the installation using terminal commands and documented the process with screenshots.



- Status
- Changes
- Workspace
- Build Now
- Configure
- Delete Project
- Rename

task - 1

installing nginx in ubuntu vm

Permalinks

- Last build (#1), 2 min 43 sec ago
- Last stable build (#1), 2 min 43 sec ago
- Last successful build (#1), 2 min 43 sec ago
- Last completed build (#1), 2 min 43 sec ago

Builds

Filter

Today

#1 12:55 PM

- Changes
- Console Output
- Edit Build Information
- Delete build '#1'
- Timings

rd > task - 1 > #1 > Console Output


```
No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
Synchronizing state of nginx.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable nginx
Rule added
Rule added (v6)
Firewall reloaded
• nginx.service - A high performance web server and a reverse proxy server
  Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
  Active: active (running) since Mon 2025-03-17 12:56:26 UTC; 40s ago
  Docs: man:nginx(8)
  Main PID: 57219 (nginx)
  Tasks: 3 (limit: 5184)
  Memory: 3.3M
  CPU: 276ms
  CGroup: /system.slice/nginx.service
          └─57219 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
          └─57221 "nginx: worker process"
              └─57222 "nginx: worker process"

Mar 17 12:56:26 maari systemd[1]: Starting A high performance web server and a reverse proxy server...
Mar 17 12:56:26 maari systemd[1]: Started A high performance web server and a reverse proxy server.
Finished: SUCCESS
```

← → ↻ 🔒 Not secure 192.168.1.102:8081/view/all/newJob

 **Jenkins**

🔍 🛡️ 📧 kamalakannan 🗑️ 📄 lo


Dashboard > All > New Item


New Item


Enter an item name


task - 1


Select an item type

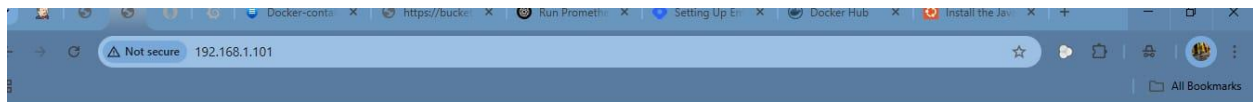
 **Freestyle project**
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.

 **Pipeline**
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

 **Multi-configuration project**
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

 **Folder**
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

 **Multibranch Pipeline**



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.