

Project Report

Name: YASWANTH KUMAR BURIDI
Registration Number: 12314514

STEP-1

Registration Number in Shell Prompt

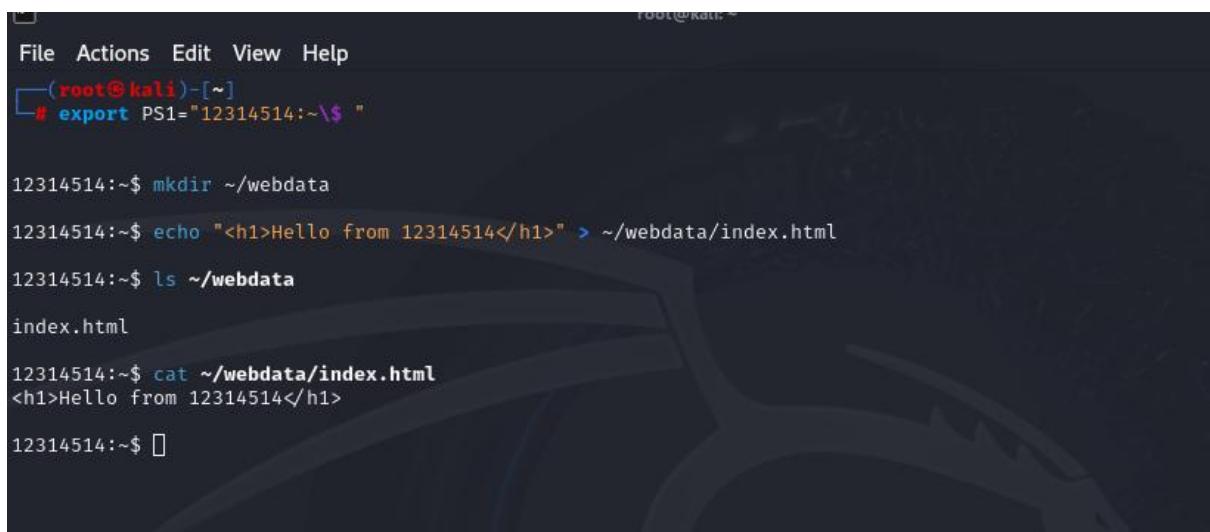
To show my registration number in every command, I set the terminal prompt like this:



```
File Actions Edit View Help
└─(root㉿kali)-[~]
# export PS1="12314514:~\$ "
12314514:~$ 
```

STEP-2

Creating the Web Page:



```
File Actions Edit View Help
└─(root㉿kali)-[~]
# export PS1="12314514:~\$ "
12314514:~$ mkdir ~/webdata
12314514:~$ echo "<h1>Hello from 12314514</h1>" > ~/webdata/index.html
12314514:~$ ls ~/webdata
index.html
12314514:~$ cat ~/webdata/index.html
<h1>Hello from 12314514</h1>
12314514:~$ 
```

STEP-3

Run NGINX Using Podman

I ran the **nginx** container and connected it to my folder so it would show my webpage:

```
12314514:~$ podman run -d --name mynginx \
-p 8080:80 \
-v ~/webdata:/usr/share/nginx/html:Z \
docker.io/library/nginx

f6668f5cb28fdc8016d84667d9a39520fa0887e79ca82cb7e12f7070f5a17045

12314514:~$ podman ps

CONTAINER ID   IMAGE          COMMAND           CREATED          STATUS          PORTS
 NAMES
f6668f5cb28f  docker.io/library/nginx:latest  nginx -g daemon o...  16 seconds ago  Up 17 seconds  0.0.0.0:8080→80
p mynginx

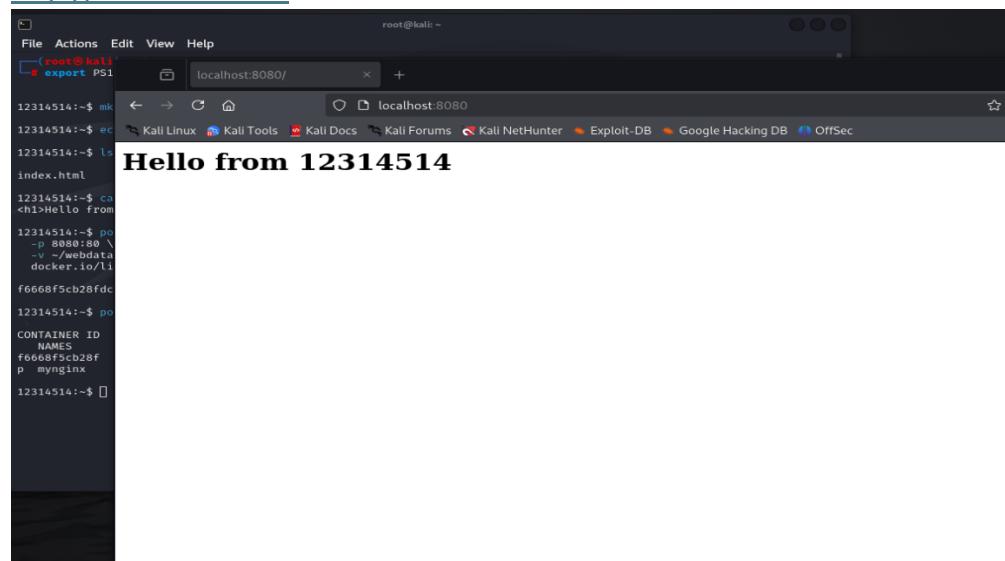
12314514:~$ 
```

STEP-4

Checking the Web Page

I tested it by opening

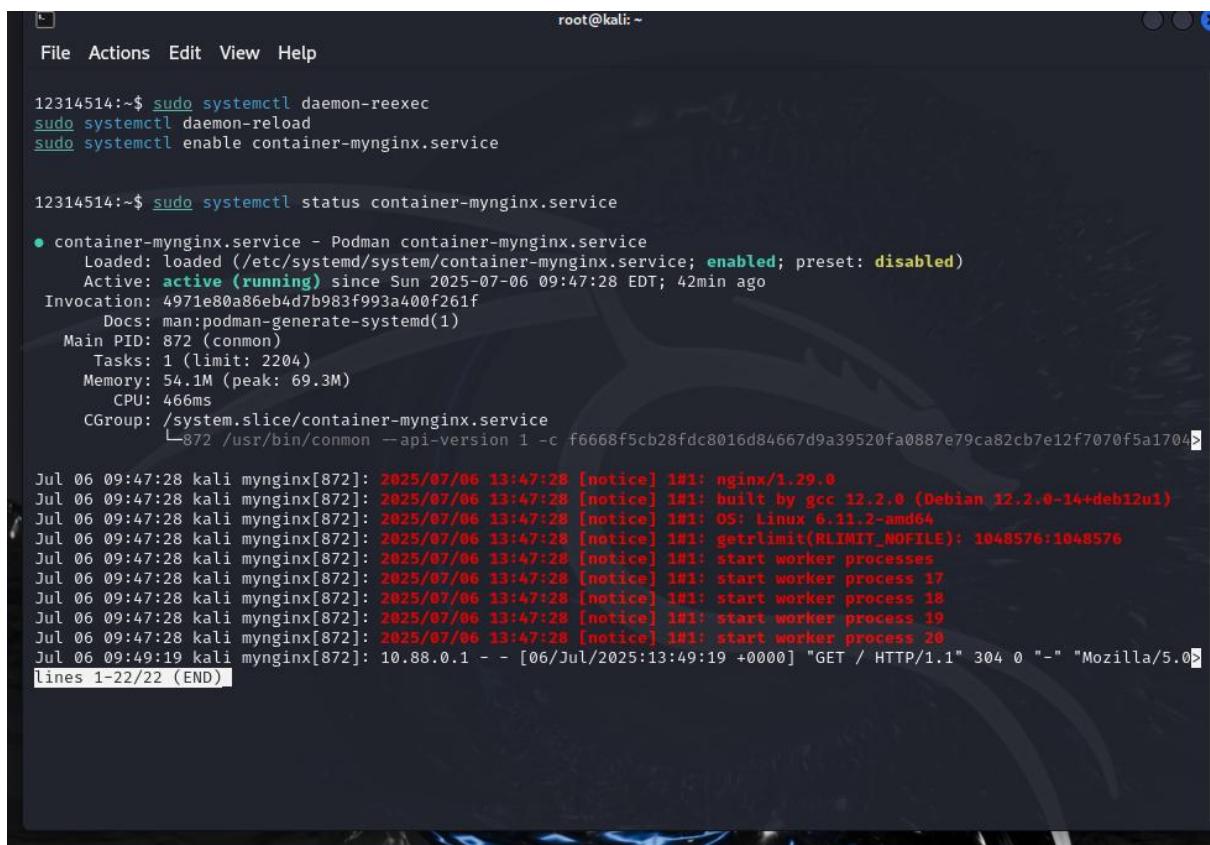
<http://localhost:8080>



STEP -5

Set Up the Auto-Start Service

Then I moved the file to the system folder and enabled it:



A terminal window titled "root@kali: ~" showing the following commands and their output:

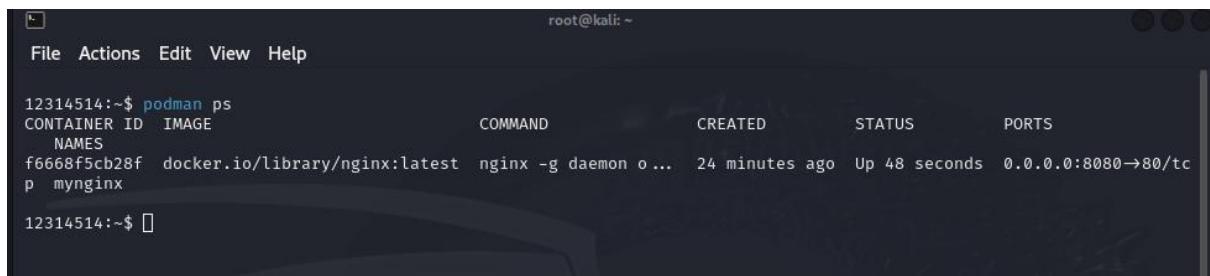
```
12314514:~$ sudo systemctl daemon-reexec
sudo systemctl daemon-reload
sudo systemctl enable container-mynginx.service

12314514:~$ sudo systemctl status container-mynginx.service
● container-mynginx.service - Podman container-mynginx.service
   Loaded: loaded (/etc/systemd/system/container-mynginx.service; enabled; preset: disabled)
   Active: active (running) since Sun 2025-07-06 09:47:28 EDT; 42min ago
     Invocation: 4971e80a86eb4d7b983f993a400f261f
       Docs: man:podman-generate-systemd(1)
      Main PID: 872 (common)
        Tasks: 1 (limit: 2204)
      Memory: 54.1M (peak: 69.3M)
        CPU: 466ms
      CGroup: /system.slice/container-mynginx.service
           └─872 /usr/bin/common --api-version 1 -c f6668f5cb28fdc8016d84667d9a39520fa0887e79ca82cb7e12f7070f5a1704

Jul 06 09:47:28 kali mynginx[872]: 2025/07/06 13:47:28 [notice] 1#1: nginx/1.29.0
Jul 06 09:47:28 kali mynginx[872]: 2025/07/06 13:47:28 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14+deb12u1)
Jul 06 09:47:28 kali mynginx[872]: 2025/07/06 13:47:28 [notice] 1#1: OS: Linux 6.11.2- amd64
Jul 06 09:47:28 kali mynginx[872]: 2025/07/06 13:47:28 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
Jul 06 09:47:28 kali mynginx[872]: 2025/07/06 13:47:28 [notice] 1#1: start worker processes
Jul 06 09:47:28 kali mynginx[872]: 2025/07/06 13:47:28 [notice] 1#1: start worker process 17
Jul 06 09:47:28 kali mynginx[872]: 2025/07/06 13:47:28 [notice] 1#1: start worker process 18
Jul 06 09:47:28 kali mynginx[872]: 2025/07/06 13:47:28 [notice] 1#1: start worker process 19
Jul 06 09:47:28 kali mynginx[872]: 2025/07/06 13:47:28 [notice] 1#1: start worker process 20
Jul 06 09:49:19 kali mynginx[872]: 10.88.0.1 - - [06/Jul/2025:13:49:19 +0000] "GET / HTTP/1.1" 304 0 "-" "Mozilla/5.0
lines 1-22/22 (END)
```

Step 6: Reboot and Test Again

After restarting the system:



A terminal window titled "root@kali: ~" showing the output of the `podman ps` command:

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
f6668f5cb28f	docker.io/library/nginx:latest	nginx -g daemon o ...	24 minutes ago	Up 48 seconds	0.0.0.0:8080→80/tcp
p mynginx					

```
12314514:~$
```

root@kali: ~

```
File Actions Edit View Help
12314514:~$ podman ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
f6668f5cb28f docker.io/library/nginx:latest nginx -g daemon o... 24 minutes ago Up 48 seconds 0.0.0.0:8080→80/tcp mynginx
12314514:~$
```

localhost:8080/

localhost:8080

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Hello from 12314514