

Project Report

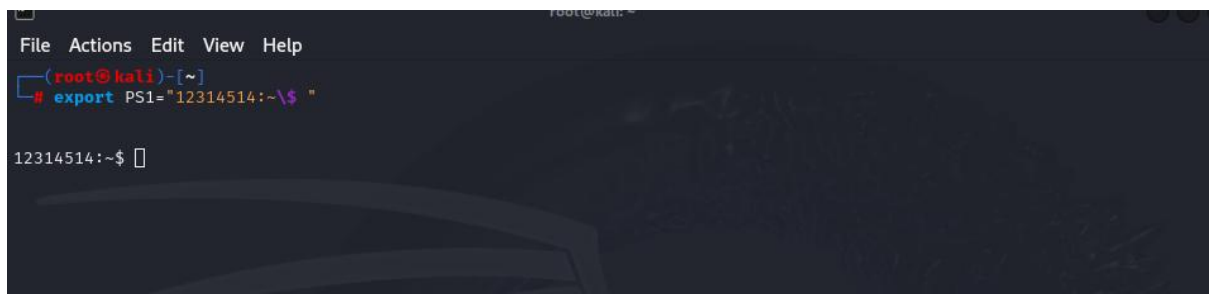
Name: YASWANTH KUMAR BURIDI

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:

A terminal window with a dark background and a faint dragon watermark. The prompt is root@kali: ~. The user enters the command export PS1="12314514:~\\$ ". The prompt changes to 12314514:~\$.

```
root@kali: ~  
File Actions Edit View Help  
(root@kali)~  
# export PS1="12314514:~\$ "  
12314514:~$
```

STEP-2

Creating the Web Page:

A terminal window with a dark background and a faint dragon watermark. The prompt is root@kali: ~. The user enters the command export PS1="12314514:~\\$ ". The prompt changes to 12314514:~\$. The user enters the command mkdir ~/webdata. The prompt changes to 12314514:~\$. The user enters the command echo "<h1>Hello from 12314514</h1>" > ~/webdata/index.html. The prompt changes to 12314514:~\$. The user enters the command ls ~/webdata. The prompt changes to 12314514:~\$. The output is index.html. The user enters the command cat ~/webdata/index.html. The prompt changes to 12314514:~\$. The output is <h1>Hello from 12314514</h1>.

```
root@kali: ~  
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
NAME
f6668f5cb28f  docker.io/library/nginx:latest      nginx -g daemon o...                16 seconds ago Up 17 seconds 0.0.0.0:8080→80
p mynginx

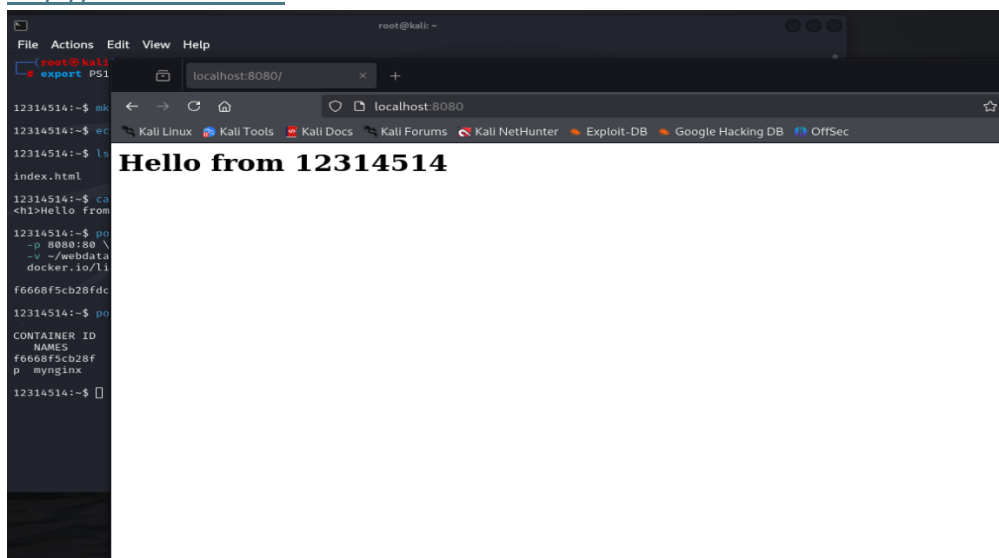
12314514:~$
```

STEP-4

Checking the Web Page

I tested it by opening

<http://localhost:8080>



The screenshot shows a web browser window with the address bar set to localhost:8080/. The page content displays "Hello from 12314514". In the background, a terminal window shows the command used to run the nginx container: `podman run -d --name mynginx -p 8080:80 -v ~/webdata:/usr/share/nginx/html:Z docker.io/library/nginx`. The terminal also shows the container's ID and the command to view running containers: `podman ps`.

STEP -5

Set Up the Auto-Start Service

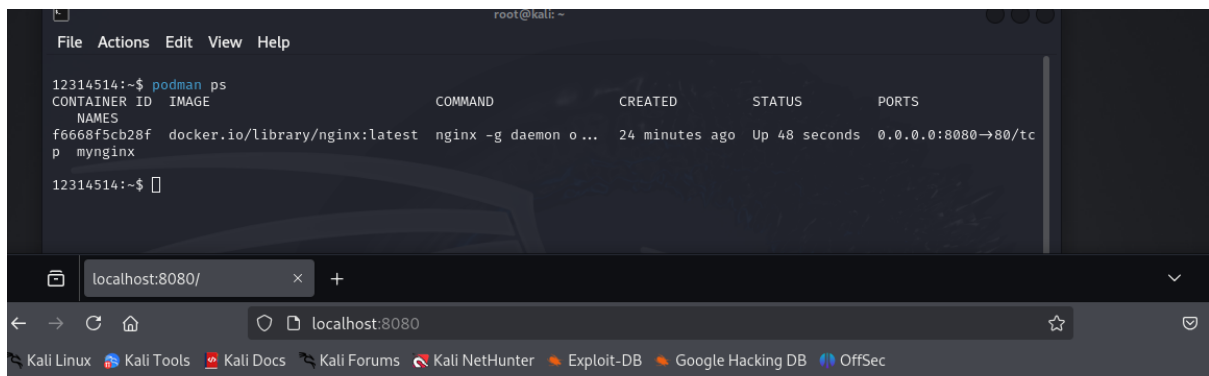
Then I moved the file to the system folder and enabled it:

```
root@kali: ~  
File Actions Edit View Help  
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 f6668f5cb28fdc8016d84667d9a39520fa0887e79ca82cb7e12f7070f5a1706  
  
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:

```
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  
p mynginx  
  
12314514:~$
```



Hello from 12314514