MANUAL INFORMATION GATHERING

TOOL: CURL TOOL

The curl tool is a command-line utility used to transfer data to or from a server using various protocols, including HTTP, HTTPS, FTP, and others. It's widely used for making web requests, testing APIs, downloading files, and more.

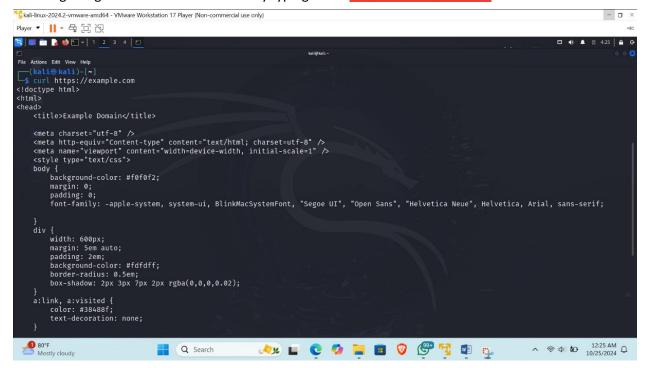
TASK 1

Installation of "curl" in Linux using this command: sudo apt-get install curl



TASK 2

We are getting the source code of a site by typing "curl https://example.com"



This are the brief statistic data on this output after typing "curl -o output.txt https://example.com" to save your output below

TASK 3

Curl also provides you with the ability to download multiple files at once. To do this, use multiple -O options, followed by the URL of the file you want to download. For example:

curl -O https://arxiv.org/ftp/arxiv/papers/1610/1610.05971.pdf -O

```
      (kali@kali)=[~]

      $ curl -0 https://arxiv.org/ftp/arxiv/papers/1610/1610.05971.pdf -0 https://arxiv.org/pdf/2103.08624.pdf

      % Total % Received % Xferd Dload Upload Total Spent Left Speed

      100 846k 100 846k 0 0 538k 0 0:00:01 0:00:01 -:-:-:- 538k

      % Total % Received % Xferd Dload Upload Total Spent Left Speed

      100 249 100 249 0 0 903 0 -:-:-:- --:-- 905
```

TASK 4

When you want to resume download, you will make use of this command: "curl -C- -O https://arxiv.org/pdf/2103.08624.pdf"

```
(kali⊗kali)-[~]

$ curl -C- -O https://arxiv.org/pdf/2103.08624.pdf

** Resuming transfer from byte position 249

% Total % Received % Xferd Average Speed Time Time Current

Dload Upload Total Spent Left Speed

0 249 0 0 0 0 0 0 --:--:- 0
```

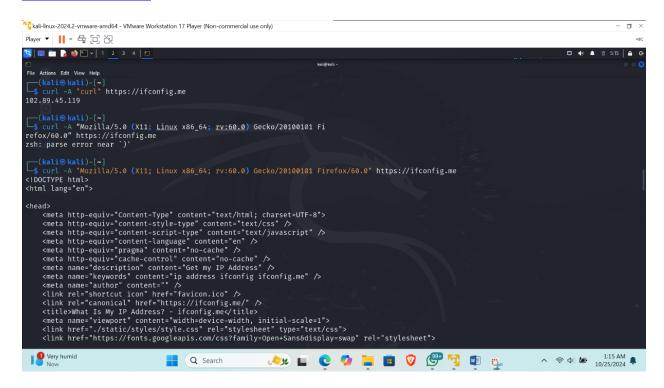
When testing a site, **curl** is useful for downloading HTTP header by typing this "**curl -l** https://example.com"

This will display many useful pieces of information, such as server info, content type, and content encoding.

TASK 5

When attempting to download a file or gather other information using curl, you may discover that the target site may be designed to block curl. In this case, it is useful to emulate a browser, such as Firefox, to return the information you are looking for. To do this, use the following command:

curl -A "Mozilla/5.0 (X11; Linux x86_64; rv:60.0) Gecko/20100101 Firefox/60.0" https://ifconfig.me



In this example, remote site https://ifconfig.me answers with different messages according to clients' user-agent strings.

TASK 6

To access a protected FTP server, use the -u option to specify the username and password:

curl -u "username:pwd" ftp://mirrors.sonic.net/knoppix/live.iso

```
(kali⊗ kali)-[~]
$ curl -u "username:pwd" "ftp://mirrors.sonic.net/knoppix/live.iso"
Warning: The argument '"username:pwd"' starts with a Unicode quote where maybe an ASCII " was intended?
Warning: The argument "ftp://mirrors.sonic.net/knoppix/live.iso"' starts with a Unicode quote where maybe an ASCII " was intended?
curl: (3) URL rejected: Port number was not a decimal number between 0 and 65535
```

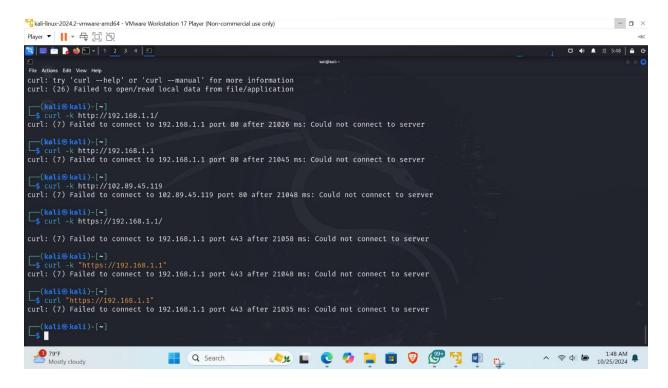
To upload a file to the server, we can use the -T option:

curl -T file.zip -u "username:password" ftp://mirrors.sonic.net/

```
(kali@ kali)-[~]
$ curl -T file.zip -u "username:password" ftp://mirrors.sonic.net/
Warning: The argument '"username:password"' starts with a Unicode quote where maybe an ASCII " was intended?
curl: cannot open 'file.zip'
curl: try 'curl --help' or 'curl --manual' for more information
curl: (26) Failed to open/read local data from file/application
```

TASK 7

curl -k http://192.168.1.1



TASK 8

Curl can also be configured to use a proxy. To do this, use the -x option followed by the proxy URL. For example:

curl -x 192.168.0.1:8080 http://example.com/