Curl command

Client URL (cURL, pronounced "curl") is a command line tool that enables data exchange between a device and a server through a terminal. Using this command line interface (CLI), a user specifies a server URL (the location where they want to send a request) and the data they want to send to that server URL.

The cURL command uses the libcURL client-side URL transfer library. This library supports many different transfer protocols, including HTTPS, SMTP, and FTP. It also enables you to include cookies, set proxies, and add authentication credentials when making requests.

Use cases of cURL include testing APIs, downloading data from sources, testing websites, and following redirects from the terminal.

Curl Command Examples:-

1. Curl command is used to fetch website content from the target website.

```
┌──(root㉿kali)-[/home/kali]
└─# curl https://www.microsoft.com

<!DOCTYPE html><html xmlns:mscom="http://schemas.microsoft.com/CMSvNext"
        xmlns:md="http://schemas.microsoft.com/mscom-data" lang="en-us"
        xmlns="http://www.w3.org/1999/xhtml"><head><link rel="shortcut icon"
                href="//www.microsoft.com/favicon.ico?v2" /><link
                type="text/css" rel="stylesheet"
                href="https://assets.onestore.ms/cdnfiles/external/mwf/long/v1/v1.25.0/css/mwf-west-european-default.min.css"
                /><title>Your request has been blocked. This could be
                due to several reasons.</title><meta name="Title"
                content="We are sorry, the page you requested cannot be
                found" /><meta name="CorrelationVector"
                content="VbLZYbRlhU2hyedN.1" /><meta name="Description"
                content="" /><meta name="MscomContentLocale"
                content="en-us" /><meta name="robots" content="noindex"
                /><link
                href="https://www.microsoft.com/onerfstatics/marketingsites-wcus-prod/west-european/shell/_scrf/css/themes=default.device=uplevel_web
_pc/2b-7ae144/7e-3283eb/69-8122fc/86-016699/72-2b1d8c/80-6461e7/2a-d9be59/51-40faf7?ver=2.0"
                rel="stylesheet" type="text/css" media="screen" /><link
                href="https://statics-marketingsites-wcus-ms-com.akamaized.net/statics/override.css?c=7"
                rel="stylesheet" type="text/css" media="screen" /><script
                type="text/javascript"
                src="https://ajax.aspnetcdn.com/ajax/jQuery/jquery-1.9.1.min.js"></script><script
                type="text/javascript"
                src="https://www.microsoft.com/onerfstatics/marketingsites-wcus-prod/shell/_scrf/js/themes=default/54-af9f9f/c0-247156/de-099401/e1-a
50eee/e7-954872/d8-97d509/f0-251fe2/46-be1318/77-04a268/11-240c7b/63-077520/a4-34de62/1b-c96630/db-bc0148/dc-7e9864/78-4c7d22/e1-c35781/40-7b7803/cd-23d3b0/6
d-1e7ed0/b7-cadaa7/ca-40b7b0/4e-ee3a55/3e-f5c39b/c3-6454d7/f9-7592d3/92-10345d/79-499886/7e-cda2d3/db-f3b1fd/93-283c2d/e0-3c9860/91-97a04f/1f-100dea/33-abe4d
f/19-c0fae7?ver=2.06amp;iife=1"></script></head><body><div
                id="13e5a8c3-a0b8-40be-9b01-3b2b55cfb6d2"><span
                        class="page-data-sources"></span><!-- UHF CSS Workarounds -><span><div
```

2. -o is used to store the fetched data from the target website inside a file.

```
┌──(root㉿kali)-[/home/kali]
└─# curl -o microsoft.txt https://www.microsoft.com
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
  0  196k    0     0    0     0      0      0 --:--:--  0:02:00 --:--:--     0
```

3. Using the -X GET method with cURL, you can quickly request data from a source or API. Here's a simple cURL command that makes a GET request

```
┌──(root㉿kali)-[/home/kali]
└─# curl -X GET https://www.microsoft.com

<!DOCTYPE html><html xmlns:mscom="http://schemas.microsoft.com/CMSvNext"
        xmlns:md="http://schemas.microsoft.com/mscom-data" lang="en-us"
        xmlns="http://www.w3.org/1999/xhtml"><head><link rel="shortcut icon"
                href="//www.microsoft.com/favicon.ico?v2" /><link
                type="text/css" rel="stylesheet"
                href="https://assets.onestore.ms/cdnfiles/external/mwf/long/v1/v1.25.0/css/mwf-west-european-default.min.css"
                /><title>Your request has been blocked. This could be
                due to several reasons.</title><meta name="Title"
                content="We are sorry, the page you requested cannot be
                found" /><meta name="CorrelationVector"
                content="VbLZYbRlhU2hyedN.1" /><meta name="Description"
                content="" /><meta name="MscomContentLocale"
                content="en-us" /><meta name="robots" content="noindex"
                /><link
                href="https://www.microsoft.com/onerfstatics/marketingsites-wcus-prod/west-european/shell/_scrf/css/themes=default.device=uplevel_web
_pc/2b-7ae144/7e-3283eb/69-8122fc/86-016699/72-2b1d8c/80-6461e7/2a-d9be59/51-40faf7?ver=2.0"
                rel="stylesheet" type="text/css" media="screen" /><link
                href="https://statics-marketingsites-wcus-ms-com.akamaized.net/statics/override.css?c=7"
                rel="stylesheet" type="text/css" media="screen" /><script
                type="text/javascript"
                src="https://ajax.aspnetcdn.com/ajax/jQuery/jquery-1.9.1.min.js"></script><script
                type="text/javascript"
                src="https://www.microsoft.com/onerfstatics/marketingsites-wcus-prod/shell/_scrf/js/themes=default/54-af9f9f/c0-247156/de-099401/e1-a
50eee/e7-954872/d8-97d509/f0-251fe2/46-be1318/77-04a268/11-240c7b/63-077520/a4-34de62/1b-c96630/db-bc0148/dc-7e9864/78-4c7d22/e1-c35781/40-7b7803/cd-23d3b0/6
```