

## CURL TOOL

TOOL: KALI LINUX

CURL is a command-line tool and library used to transfer data with URLs. In cybersecurity, it has several important uses:

1. **Testing APIs:** cURL is commonly used to send requests to web APIs. This helps security professionals test the functionality and security of APIs by sending various types of requests (GET, POST, PUT, DELETE) and analyzing responses.
2. **Downloading Files:** You can use cURL to download files from a server, which can be useful for retrieving malware samples or other files for analysis.
3. **Network Protocol Testing:** cURL supports numerous protocols (HTTP, HTTPS, FTP, etc.), allowing security experts to test the behavior of servers and applications across different protocols.
4. **Security Auditing:** cURL can be used to check for vulnerabilities in web applications, such as misconfigured servers or issues with SSL/TLS certificates.
5. **Payload Delivery:** In penetration testing, cURL can be used to deliver payloads to exploit vulnerabilities or test security measures.
6. **Scripting and Automation:** Security professionals often use cURL in scripts to automate tasks like scanning, monitoring, or retrieving data from various services.
7. **Testing Authentication:** cURL can help test different authentication methods (like basic, digest, or token-based) to ensure proper security controls are in place.

Overall, cURL is a versatile tool that assists in various aspects of cybersecurity by enabling quick and efficient interaction with web services and networks.

```
kali@kali: ~  
File Actions Edit View Help  
border-radius: 0.5em;  
box-shadow: 2px 3px 7px 2px rgba(0,0,0,0.02);  
}  
a:link, a:visited {  
  color: #38488f;  
  text-decoration: none;  
}  
@media (max-width: 700px) {  
  div {  
    margin: 0 auto;  
    width: auto;  
  }  
}  
}  
</style>  
</head>  
<body>  
<div>  
  <h1>Example Domain</h1>  
  <p>This domain is for use in illustrative examples in documents. You may use this  
  domain in literature without prior coordination or asking for permission.</p>  
  <p><a href="https://www.iana.org/domains/example">More information ...</a></p>  
</div>  
</body>  
</html>  
  
(kali@kali)-[~]  
$ curl -o output.txt https://example.com  
% Total % Received % Xferd Average Speed Time Time Time Current  
Dload Upload Total Spent Left Speed  
100 1256 100 1256 0 0 1306 0 --:--:-- --:--:-- --:--:-- 1306  
  
(kali@kali)-[~]  
$ curl -O https://arxiv.org/ftp/arxiv/papers/1610/1610.05971.pdf -O https://arxiv.org/pdf/2103.08624.pdf  
% Total % Received % Xferd Average Speed Time Time Time Current  
Dload Upload Total Spent Left Speed  
100 846k 100 846k 0 0 20936 0 0:00:41 0:00:41 --:--:-- 31477  
% Total % Received % Xferd Average Speed Time Time Time Current  
Dload Upload Total Spent Left Speed  
100 249 100 249 0 0 1214 0 --:--:-- --:--:-- --:--:-- 1220  
  
(kali@kali)-[~]  
$
```

```
kali@kali: ~  
File Actions Edit View Help  
(kali@kali)-[~]  
$ curl -l https://example.com  
<doctype html>  
<html>  
<head>  
  <title>Example Domain</title>  
  
  <meta charset="utf-8" />  
  <meta http-equiv="Content-type" content="text/html; charset=utf-8" />  
  <meta name="viewport" content="width=device-width, initial-scale=1" />  
  <style type="text/css">  
    body {  
      background-color: #f0f0f2;  
      margin: 0;  
      padding: 0;  
      font-family: -apple-system, system-ui, BlinkMacSystemFont, "Segoe UI", "Open Sans", "Helvetica Neue", Helvetica, Arial, sans-serif;  
    }  
    div {  
      width: 600px;  
      margin: 5em auto;  
      padding: 2em;  
      background-color: #fdfdff;  
      border-radius: 0.5em;  
      box-shadow: 2px 3px 7px 2px rgba(0,0,0,0.02);  
    }  
    a:link, a:visited {  
      color: #38488f;  
      text-decoration: none;  
    }  
    @media (max-width: 700px) {  
      div {  
        margin: 0 auto;  
        width: auto;  
      }  
    }  
  </style>  
</head>  
<body>  
<div>  
  <h1>Example Domain</h1>  
  <p>This domain is for use in illustrative examples in documents. You may use this
```

```
kali@kali: ~  
File Actions Edit View Help  
~  
$ curl -A "curl" https://ifconfig.me  
41.76.192.41  
~  
$ curl -A "Mozilla/5.0 (X11; Linux x86_64; rv:60.0) Gecko/20100101 Firefox/60.0" https://ifconfig.me  
<!DOCTYPE html>  
<html lang="en">  
  
<head>  
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">  
  <meta http-equiv="content-style-type" content="text/css" />  
  <meta http-equiv="content-script-type" content="text/javascript" />  
  <meta http-equiv="content-language" content="en" />  
  <meta http-equiv="pragma" content="no-cache" />  
  <meta http-equiv="cache-control" content="no-cache" />  
  <meta name="description" content="Get my IP Address" />  
  <meta name="keywords" content="ip address ifconfig ifconfig.me" />  
  <meta name="author" content="" />  
  <link rel="shortcut icon" href="favicon.ico" />  
  <link rel="canonical" href="https://ifconfig.me/" />  
  <title>What Is My IP Address? - ifconfig.me</title>  
  <meta name="viewport" content="width=device-width, initial-scale=1">  
  <link href="/static/styles/style.css" rel="stylesheet" type="text/css">  
  <link href="https://fonts.googleapis.com/css?family=Open+Sans&display=swap" rel="stylesheet">  
</head>  
  
<body>  
  <div id="ad_container">  
    <div class="ad">  
      Need a robust API to Geolocate IPs and fetch other crucial information? Try  
      <a href="https://ipinfo.io/?utm_source=ifconfig.me&utm_medium=referral&utm_campaign=upsell_sister_sites">IPinfo.io</a>.  
    </div>  
  </div>  
  
  <div id="container" class="clearfix">  
    <div id="header">  
      <table>  
        <tr>  
          <td>  
            <h1><a href="http://ifconfig.me">What Is My IP Address? - ifconfig.me</a></h1>  
          </td>  
        </tr>  
      </table>  
    </div>  
  </div>
```

```
kali@kali: ~  
File Actions Edit View Help  
~  
$ curl -k "http://192.168.1.1"  
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html xmlns="http://www.w3.org/1999/xhtml">  
<head>  
  <META HTTP-EQUIV="pragma" CONTENT="no-cache">  
  <META HTTP-EQUIV="Cache-Control" CONTENT="no-cache, must-revalidate">  
  <meta http-equiv="Content-Type" content="text/html; charset=gb2312" />  
  <title>F660</title>  
  <LINK REL="stylesheet" HREF="css/login.css" TYPE="text/css" />  
  <LINK REL="stylesheet" HREF="css/styleen.css" TYPE="text/css" />  
<script>  
function getObj(id)  
{  
return(document.getElementById);  
}  
var time="60";  
function setTime()  
{  
time=time-1;  
getObj("time").innerHTML=time+" secs";  
}  
function setinner(type)  
{  
getObj("myLayer").style.visibility = type ;  
}  
function Transfer_meaning(id,value)  
{  
getObj(id).value=value;  
}  
function onFocus()  
{  
if( getObj("Frm_Username").disabled == false )  
getObj("Frm_Username").focus();  
}  
function ChangeLang()  
{  
var lang = "English";  
getObj("lang").disabled = false;  
getObj("Frm_Username").disabled = true;  
getObj("Frm_Password").disabled = true;  
if(true != getObj("TestLang01").disabled)
```