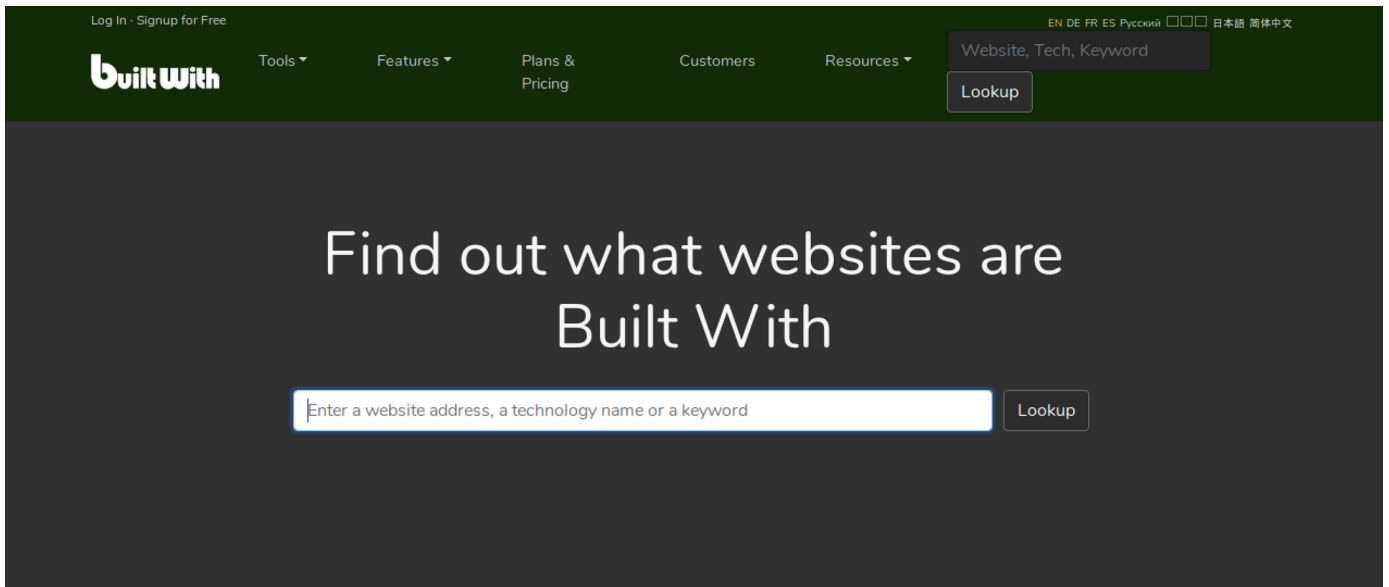
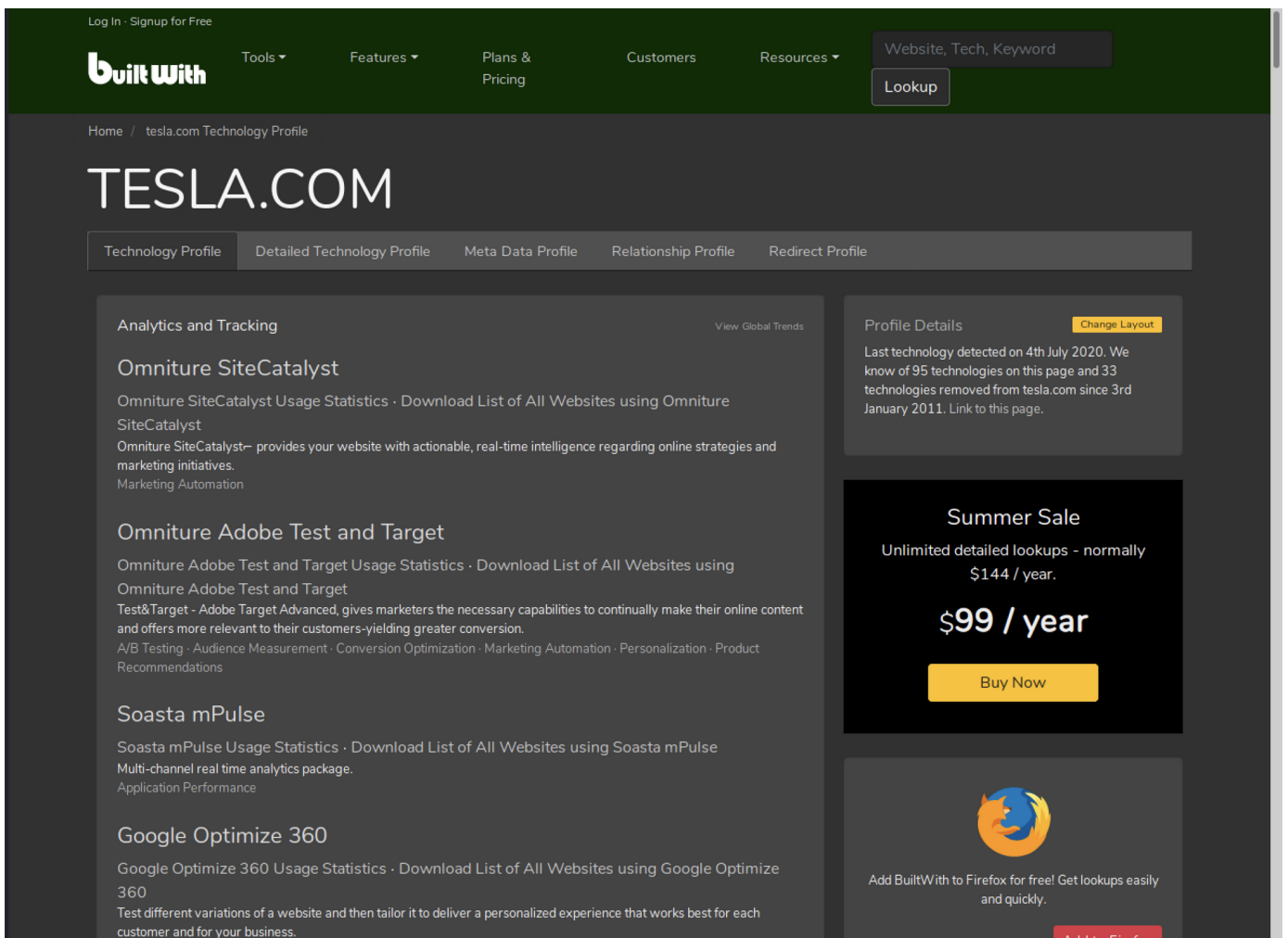


# Identifying Website Technologies

We will be trying to identify the underlying technology behind web applications. We will use an online tool called "BuiltWith" which can be found at <https://builtwith.com/> shown below:



In the lookup text box, we can search for a domain e.g `tesla.com` as shown below:



While scrolling through the page, we notice that there are various sections such as "Analytics and Tracking", "Widgets", etc. We are more interested in sections such as "Frameworks", "Content Delivery Network", "Payment", "Content Management System" shown below:

Frameworks

View Global Trends

## Adobe Enterprise Cloud

Adobe Enterprise Cloud Usage Statistics · Download List of All Websites using Adobe Enterprise Cloud

Emails on this domain can create Adobe Enterprise Cloud accounts.

## PHP

PHP Usage Statistics · Download List of All Websites using PHP

PHP is a widely-used general-purpose scripting language that is especially suited for Web development and can be embedded into HTML.

Programming Language

### PHP 7

PHP 7 Usage Statistics · Download List of All Websites using PHP 7

Content Delivery Network

View Global Trends

## Akamai

Akamai Usage Statistics · Download List of All Websites using Akamai

Akamai provides a distributed computing platform for global Internet content and application delivery.

## Vimeo CDN

Vimeo CDN Usage Statistics · Download List of All Websites using Vimeo CDN

This page uses content from the Vimeo CDN.

## CDN JS

CDN JS Usage Statistics · Download List of All Websites using CDN JS

CloudFlare's CDN with popular javascript frameworks available.

## CloudFront

CloudFront Usage Statistics · Download List of All Websites using CloudFront

Amazon CloudFront is a web service for content delivery. It integrates with other Amazon Web Services to give developers and businesses an easy way to distribute content to end users with low latency, high data transfer speeds, and no commitments.

## Stripe

[Stripe Usage Statistics](#) · [Download List of All Websites using Stripe](#)

Stripe makes it easy for developers to accept credit cards on the web.

[Checkout Buttons](#) · [Payments Processor](#)

## Japanese Yen

[Japanese Yen Usage Statistics](#) · [Download List of All Websites using Japanese Yen](#)

The website uses the ¥ symbol on its website - meaning it may accept payment in this Japanese currency.

[Payment Currency](#)

## Pound Sterling

[Pound Sterling Usage Statistics](#) · [Download List of All Websites using Pound Sterling](#)

The website uses the £ symbol on its website - meaning it may accept payment in this British currency.

[Payment Currency](#)

## Adyen

[Adyen Usage Statistics](#) · [Download List of All Websites using Adyen](#)

Adyen is a leading provider of omni-channel payment solutions with over 250 payment methods and 187 transaction currencies.

## Thron

[Thron Usage Statistics](#) · [Download List of All Websites using Thron](#)

Digital asset management platform.

## Drupal

[Drupal Usage Statistics](#) · [Download List of All Websites using Drupal](#)

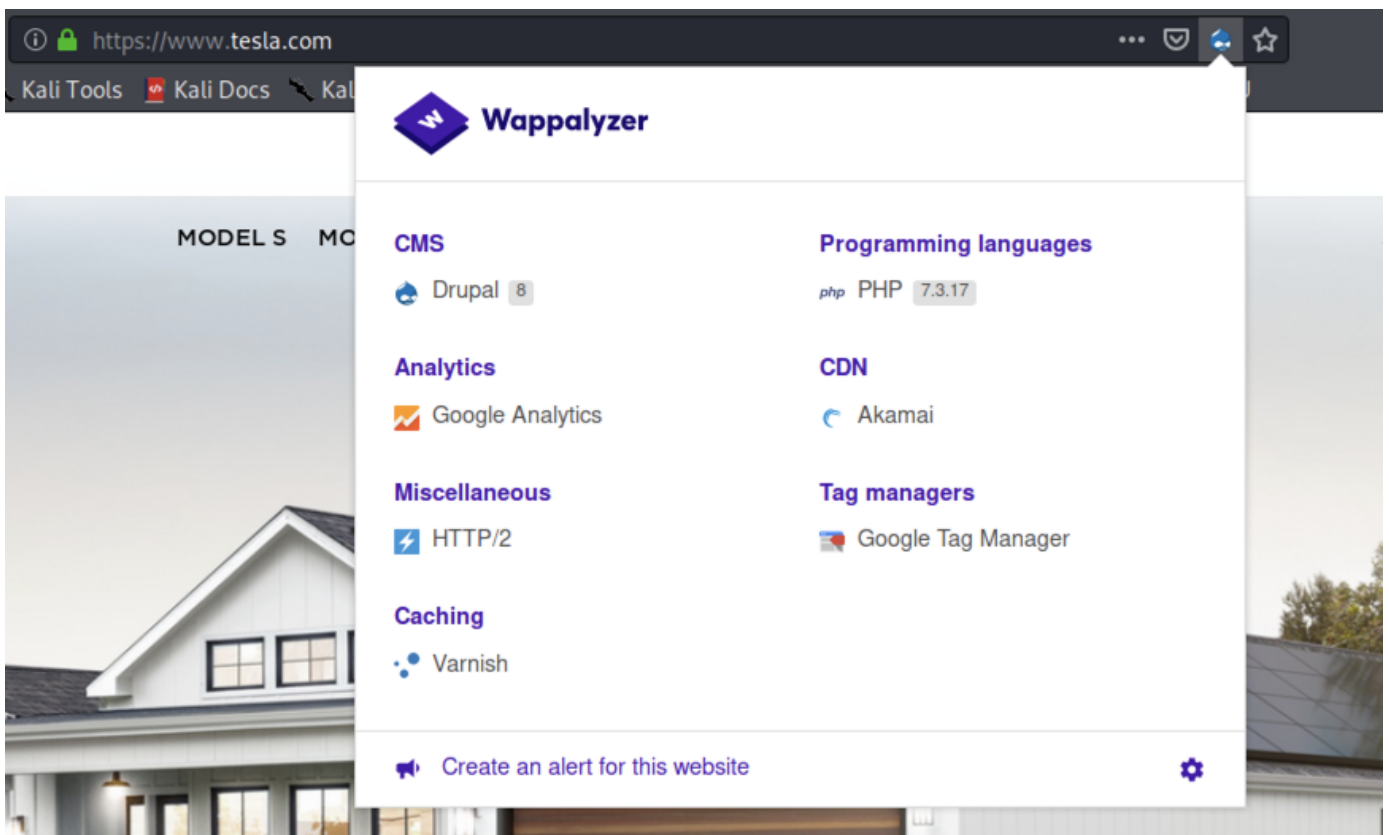
An engine suitable to setup or build a content driven or community driven website. Modular design allows flexibility in design.

[Open Source](#)

### Drupal 8

[Drupal 8 Usage Statistics](#) · [Download List of All Websites using Drupal 8](#)

We can also use a tool called "wappalyzer firefox". It functions as a browser extension that analyzes the frameworks that support a website. An example is shown below:



The wappalyzer tool does not do any in-depth "active" scanning. It basically gives a summary of the easily detectable services running on a website. It still provides some helpful insight to give us an idea of the potential vulnerabilities in a system. For example, the result from the `tesla.com` page shows that it is running on `PHP` and `Drupal`. If there's a known vulnerability in that version of `PHP` or `Drupal`, we could hypothesize that website exploitation is possible.

We also have another tool called `whatweb` shown below. It's a tool that's native to Kali Linux.

```

root@kali:~# whatweb MODEL 3 MODEL X MODEL Y SOLAR ROOF SOLAR PANE
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$$$$$$ $$$$$$ $$$ $$$$ $$$$ $$$$ $$$$ $$$$$$ $$$$$$ $$$$$$$$$$ $$$$$$$$$$'

WhatWeb - Next generation web scanner version 0.5.2.
Developed by Andrew Horton (urbanadventurer) and Brendan Coles (bcoles)
Homepage: https://www.morningstarsecurity.com/research/whatweb

Usage: whatweb [options] <URLs>

<TARGETs>          Enter URLs, hostnames, IP addresses, filenames or
                    IP ranges in CIDR, x.x.x-x, or x.x.x.x-x.x.x.x
                    format.
--input-file=FILE, -i  Read targets from a file.

--aggression, -a=LEVEL  Set the aggression level. Default: 1.
1. Stealthy           Makes one HTTP request per target and also
                      follows redirects.
3. Aggressive         If a level 1 plugin is matched, additional
                      requests will be made.

--list-plugins, -l      List all plugins.
--info-plugins, -I=[SEARCH] List all plugins with detailed information.
                        Optionally search with a keyword.

--verbose, -v          Verbose output includes plugin descriptions.

Note: This is the short usage help. For the complete usage help use -h or --help.

root@kali:~# █

```

Here is a sample run of the tool shown below:

```

root@kali:~# whatweb https://tesla.com
https://tesla.com [301 Moved Permanently] Country[UNITED STATES][US], HTTPServer[BigIP], IP[199.66.11.62] RedirectLocation[https://www.tesla.com/]
https://www.tesla.com/ [200 OK] Content-Language[en], Country[UNITED STATES][US], Drupal, Frame, HTML5, IP[23.194.158.38], MetaGenerator[Drupal 8 (https://www.drupal.org)], Open-Graph-Protocol[website], PHP[7.3.17], PoweredBy[Tesla], Script[application/json,text/javascript], Strict-Transport-Security[max-age=15768000], Title[Electric Cars, Solar & Clean Energy | Tesla], UncommonHeaders[x-dru
pal-dynamic-cache,x-generator,x-drupal-cache,x-tzla-edge-hostname-vcl,x-tzla-edge-backend-fetch-if-stale,x-tzla-edge-was-304,x-tzla-edge-age,x-tzla-edge-grace,x-tzla-edge-backend-retry,x-tzla-edge-ba
ckend-conn-time,x-tzla-edge-backend-ttfb,x-tzla-edge-backend-reason,x-tzla-edge-backend-status,x-varnish,x-content-type-options,x-tzla-edge-cache-hit,x-tzla-edge-ttl,x-tzla-edge-grace-backend-unhealt
hy,x-tzla-edge-backend-stream,x-tzla-edge-client-restarts,x-tzla-edge-client-req-ttl,x-tzla-edge-server,x-tzla-edge-cache-hits,x-akamai-transformed,server-timing], Varnish, X-Frame-Options[SAMEORIGIN
], X-Powered-By[PHP/7.3.17], X-UA-Compatible[IE=edge]
root@kali:~# █

```

In the sample run, we can see that it retrieved some information such as the IP address (highlighted), and some services and other information.