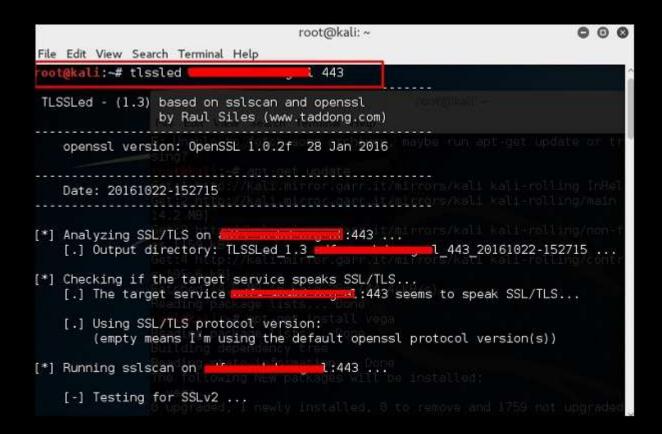
## Website Penetration Testing

## SSL Scanning Tools

**TLSSLed** is a Linux shell script used to evaluate the security of a target SSL/TLS (HTTPS) web server implementation. It is based on sslscan, a thorough SSL/TLS scanner that is based on the openssl library, and on the "openssl s\_client" command line tool.

The current tests include checking if the target supports the SSLv2 protocol, the NULL cipher, weak ciphers based on their key length (40 or 56 bits), the availability of strong ciphers (like AES), if the digital certificate is MD5 signed, and the current SSL/TLS renegotiation capabilities.

To start testing, open a terminal and type "tissled URL port". It will start to test the certificate to find data.



You can see from the finding that the certificate is valid until 2018 as shown in green in the following screenshot.

```
[.] Testing for the certificate CA issuer ...
Issuer: COMODO RSA Domain Validation Secure Server CA

[.] Testing for the certificate validity period ...
Today: Sat Oct 22 19:27:24 UTC 2016

Not valid before: May 29 00:00:00 2015 GMT
Not valid after: May 28 23:59:59 2018 GMT

[.] Checking preferred server ciphers ...

[*] Testing for SSL/TLS renegotiation MitM vuln. (CVE-2009-3555) ...

[+] Testing for secure renegotiation support (RFC 5746) ...
Secure Renegotiation IS NOT supported

[*] Testing for SSL/TLS renegotiation DoS vuln. (CVE-2011-1473) ...

[.] Testing for client initiated (CI) SSL/TLS renegotiation (insecure)...

[*] Testing for client authentication using digital certificates ...
```

## w3af

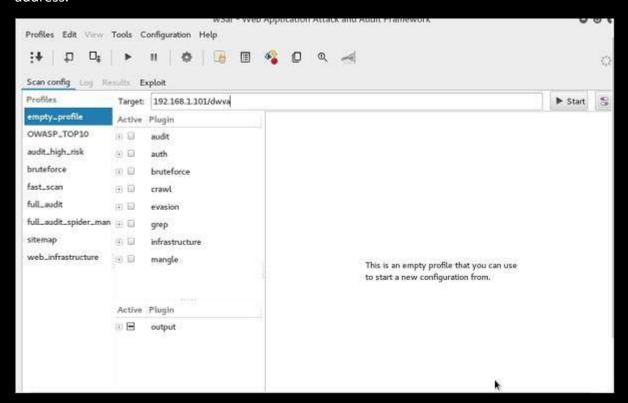
w3af is a Web Application Attack and Audit Framework which aims to identify and exploit all web application vulnerabilities. This package provides a Graphical User Interface (GUI) for the framework. If you want a command-line application only, install w3af-console.

The framework has been called the "metasploit for the web", but it's actually much more as it also discovers the web application vulnerabilities using black-box scanning techniques. The w3af core and its plugins are fully written in Python. The project has more than 130 plugins, which identify and exploit SQL injection, cross-site scripting (XSS), remote file inclusion and more.

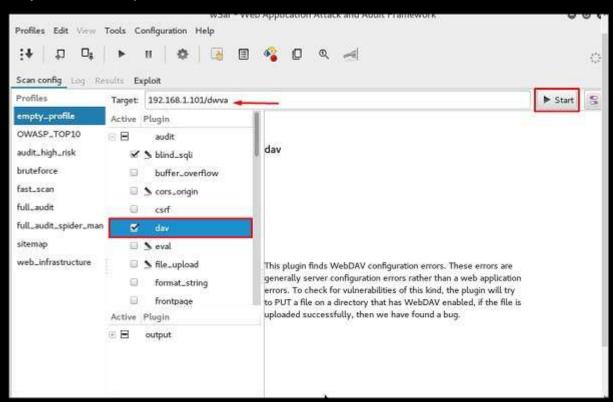
**Step 1** – To open it, go to Applications  $\rightarrow$  03-Web Application Analysis  $\rightarrow$  Click w3af.



**Step 2** – On the "Target" enter the URL of victim which in this case will be metasploitable web address.



**Step 3** – Select the profile  $\rightarrow$  Click "Start".



Step 4 – Go to "Results" and you can see the finding with the details.

