

How to install?

Let's start playing around with this amazing tool. To get a local installation up and running, all you have to do is clone the repository from [here](#) and install the Python dependencies using `python3 -m pip install termcolor cprint pycryptodomex requests`



It truly is as easy as that and you've set everything up to get hunting!

Playing around with the tool

Viewing the token

The easiest action to perform is to view the headers and payload values of your token. This can very easily be done through

```
python3 jwt_tool.py <<JWT_TOKEN>>
```

```
=====
Decoded Token Values:
=====
Token header values:
[+] alg = "HS256"
[+] typ = "JWT"

Token payload values:
[+] sub = "1234567890"
[+] name = "John Doe"
[+] iat = 1516239022 ==> TIMESTAMP = 2018-01-18 02:30:22 (UTC)

-----
JWT common timestamps:
iat = IssuedAt
exp = Expires
nbf = NotBefore
-----
```

Decoding token

Tampering with the token

Now that we can view the token, we can also start to tamper with it by changing values. The following command allows us to do this.

```
python3 jwt_tool.py <<JWT_TOKEN>> -T
```



```
python3 jwt_tool.py <<JWT_TOKEN>> -X k -pk <<PUBKEY.PEM>>
```

Conclusion

JWT_Tool is an extremely powerful toolset that will greatly increase your efficiency while searching for vulnerabilities in JWT implementations.

If you would like to recommend a tool for us to cover next week, then be sure to let us know down below. Also be sure to check out [all the previous Hacker Tools articles](#), such as [the last one on Aquatone](#).

Did you know that there is a video accompanying this article? Check out [the playlist!](#)

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