mitmproxy

- Man In The Middle Proxy.
- Can intercept, analyse, modify and replay packet flows.
- Supports a number of proxy modes.
- TLS cert generation.
- And more.....

mitmproxy

2 Main operation modes:

1. Explicit – user connects directly to the proxy.
2. Transparent – data is redirected to the proxy.

mitmproxy

Transparent Mode

1. Become the man in the middle (arp spoofing, fake ap ...etc).
2. Redirect data from port 80 to mitmproxy.
3. Run mitmproxy in transparent mode.

mitmproxy

How To Build An Attack

1. Analyse normal behaviour.
2. Use a basic setup to test the simplest form of the attack.
3. Start with a simple case that can be extended to run your final attack.
4. Test the simple case against the target the actual target setup.
5. Test the more complex case against the target setup

mitmproxy

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Release v2.0.2 · mitm... | mitmproxy | Preferences

127.0.0.1:8081/#/flows/9261b2db-87ce-4975-8deb-6428a7094172/response

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mitmproxy | Start | Options | Flow

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~a	Match asset in response: CSS, Javascript, Flash, images.
~b regex	Body
~bq regex	Request body
~bs regex	Response body
~c int	HTTP response code
~d regex	Domain
~dst regex	Match destination address
~e	Match error
~h regex	Header
~hq regex	Request header
~hs regex	Response header
~http	Match HTTP flows
~m regex	Method
~marked	Match marked flows
~q	Match request with no response

Method	Status	Size	Time
GET	200	30.7kb	263ms
GET	204	0	444ms
POST	204	339b	49ms
GET	200	11.6kb	745ms
GET	200	3.0kb	371ms
GET	200	4.3kb	59ms
GET	200	491b	1s
GET	200	260b	1s
GET	204	0	579ms
POST	204	2.8kb	2s
GET	204	0	58ms

Request | Response | Details

```
HTTP/1.1 200 OK
Cache-Control              public, max-age=15552000
Content-Type               image/png
Last-Modified              Wed, 11 Oct 2017 22:12:15 GMT
Vary                       Accept-Encoding
X-SnrId                    2C1DCB0A6C4A4AD1873B6E1A78DB1807
X-SnrMachineName           DB5SCH102141510
Date                       Thu, 12 Oct 2017 19:00:13 GMT
Content-Length             260
```

Format: Portable network graphics
Size: 21 x 21 px

View: auto | PNG Image

mitmproxy - Mozilla Firefox

Release v2.0.2 · mitm... | mitmproxy | Preferences

127.0.0.1:8081/#/flows/9261b2db-87ce-4975-8deb-6428a7094172/response?s=~m POST

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~m POST

method matches /POST/i

Highlight

Path	Method	Status	Size	Time
http://www.bing.com/fd/ls/lsp.aspx	POST	204	339b	49ms
http://www.bing.com/fd/ls/lsp.aspx	POST	204	2.8kb	2s

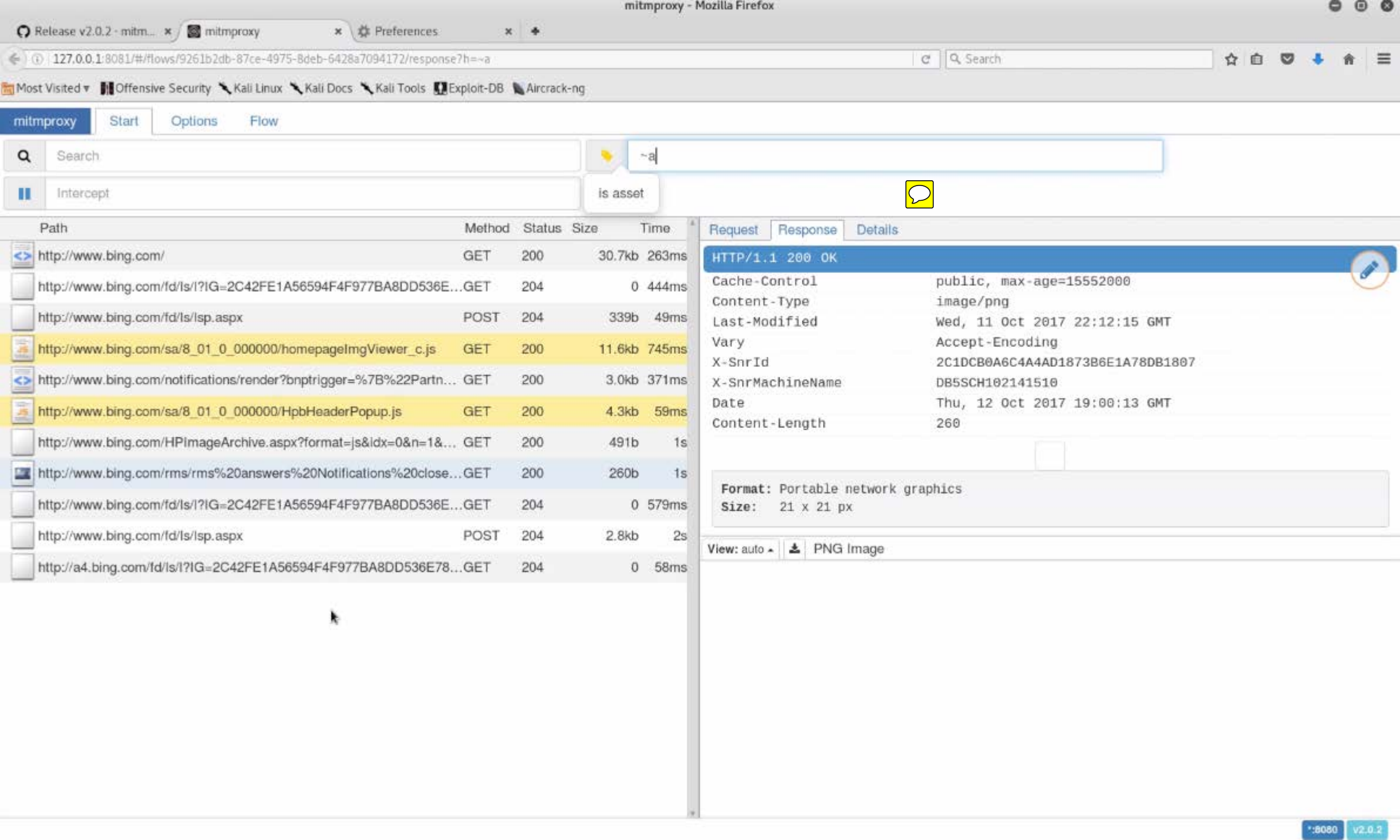
Request | Response | Details

```
HTTP/1.1 200 OK
Cache-Control            public, max-age=15552000
Content-Type             image/png
Last-Modified            Wed, 11 Oct 2017 22:12:15 GMT
Vary                     Accept-Encoding
X-SnrId                  2C1DCB0A6C4A4AD1873B6E1A78DB1807
X-SnrMachineName         DB5SCH102141510
Date                     Thu, 12 Oct 2017 19:00:13 GMT
Content-Length           260
```

Format: Portable network graphics
Size: 21 x 21 px

View: auto | PNG Image

*:8080 | v2.0.2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Release v2.0.2 - mitm...
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Preferences
127.0.0.1:8081/#/flows/9261b2db-87ce-4975-8deb-6428a7094172/response?h=~a
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is asset
Path
Method
Status
Size
Time
http://www.bing.com/ GET 200 30.7kb 263ms
http://www.bing.com/fd/ls/l?IG=2C42FE1A56594F4F977BA8DD536E... GET 204 0 444ms
http://www.bing.com/fd/ls/lsp.aspx POST 204 339b 49ms
http://www.bing.com/sa/8_01_0_000000/homepageImgViewer_c.js GET 200 11.6kb 745ms
http://www.bing.com/notifications/render?bnptrigger=%7B%22Partn... GET 200 3.0kb 371ms
http://www.bing.com/sa/8_01_0_000000/HpbHeaderPopup.js GET 200 4.3kb 59ms
http://www.bing.com/HPImageArchive.aspx?format=js&idx=0&n=1&... GET 200 491b 1s
http://www.bing.com/rms/rms%20answers%20Notifications%20close... GET 200 260b 1s
http://www.bing.com/fd/ls/l?IG=2C42FE1A56594F4F977BA8DD536E... GET 204 0 579ms
http://www.bing.com/fd/ls/lsp.aspx POST 204 2.8kb 2s
http://a4.bing.com/fd/ls/l?IG=2C42FE1A56594F4F977BA8DD536E78... GET 204 0 58ms
Request
Response
Details
HTTP/1.1 200 OK
Cache-Control public, max-age=15552000
Content-Type image/png
Last-Modified Wed, 11 Oct 2017 22:12:15 GMT
Vary Accept-Encoding
X-SnrId 2C1DCB0A6C4A4AD1873B6E1A78DB1807
X-SnrMachineName DB5SCH102141510
Date Thu, 12 Oct 2017 19:00:13 GMT
Content-Length 260
Format: Portable network graphics
Size: 21 x 21 px
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Path	Method	Status	Size	Time
http://www.bing.com/AS/Suggestions?pt=page.home&mkt=en-ie&qry=t&cp=1&cvid=D1AE338A37C74753B113EE4390FD10C0	GET	200	534b	54s
http://www.bing.com/AS/Suggestions?pt=page.home&mkt=en-ie&qry=te&cp=2&cvid=D1AE338A37C74753B113EE4390FD10C0	GET	200	547b	54s
http://www.bing.com/AS/Suggestions?pt=page.home&mkt=en-ie&qry=tes&cp=3&cvid=D1AE338A37C74753B113EE4390FD10C0	GET	200	523b	55s
http://www.bing.com/AS/Suggestions?pt=page.home&mkt=en-ie&qry=test&cp=4&cvid=D1AE338A37C74753B113EE4390FD10C0	GET	200	555b	55s
http://www.bing.com/fd/ls/lsp.aspx	POST		800b	...
http://www.bing.com/fd/ls/GLinkPing.aspx?IG=D1AE338A37C74753B113EE4390FD10C0&ID=SERP,5079.1	GET	200	42b	55s
http://www.bing.com/fd/ls/lsp.aspx	POST		405b	...
http://www.bing.com/search?q=test&qs=n&form=QBLH&sp=-1&pq=test&sc=8-4&sk=&cvid=D1AE338A37C74753B113EE4390FD10C0	GET	200	28.2kb	432ms
http://www.bing.com/fd/ls/l?IG=E0DD3DB5DAA94F7A9AEB57AF164F0461&Type=Event.CPT&DATA={%22pp%22:{%22S%22:%22L%22,%22FC...	GET	204	0	599ms
http://www.bing.com/fd/ls/lsp.aspx	POST		345b	...
http://www.bing.com/fd/ls/lsp.aspx	POST		3.0kb	...
http://34338143fbbc67bab51b52a041bca195.clo.footprintdns.com/apc/trans.gif	GET	200	43b	210ms
http://ed237ab43399fd1b7022ff55ceeb6d6b.clo.footprintdns.com/apc/trans.gif	GET	200	43b	195ms
http://1d61bcaf14a0ca15b93a6e93aa3d1b53.clo.footprintdns.com/apc/trans.gif	GET	200	43b	220ms
http://ed237ab43399fd1b7022ff55ceeb6d6b.clo.footprintdns.com/apc/17k.gif?ed237ab43399fd1b7022ff55ceeb6d6b	GET	200	17.7kb	38ms
http://1d61bcaf14a0ca15b93a6e93aa3d1b53.clo.footprintdns.com/apc/17k.gif?1d61bcaf14a0ca15b93a6e93aa3d1b53	GET	200	17.7kb	91ms
http://34338143fbbc67bab51b52a041bca195.clo.footprintdns.com/apc/17k.gif?34338143fbbc67bab51b52a041bca195	GET	200	17.7kb	82ms
http://fp.msedge.net/r.gif?&MonitorID=AZR&rid=E0DD3DB5DAA94F7A9AEB57AF164F0461&w3c=true&prot=http:&v=4&DATA=[{%22MonitorID%...	GET	200	42b	54ms
http://www.bing.com/fd/ls/lsp.aspx	POST		1.1kb	...

Intercept: ~m POST

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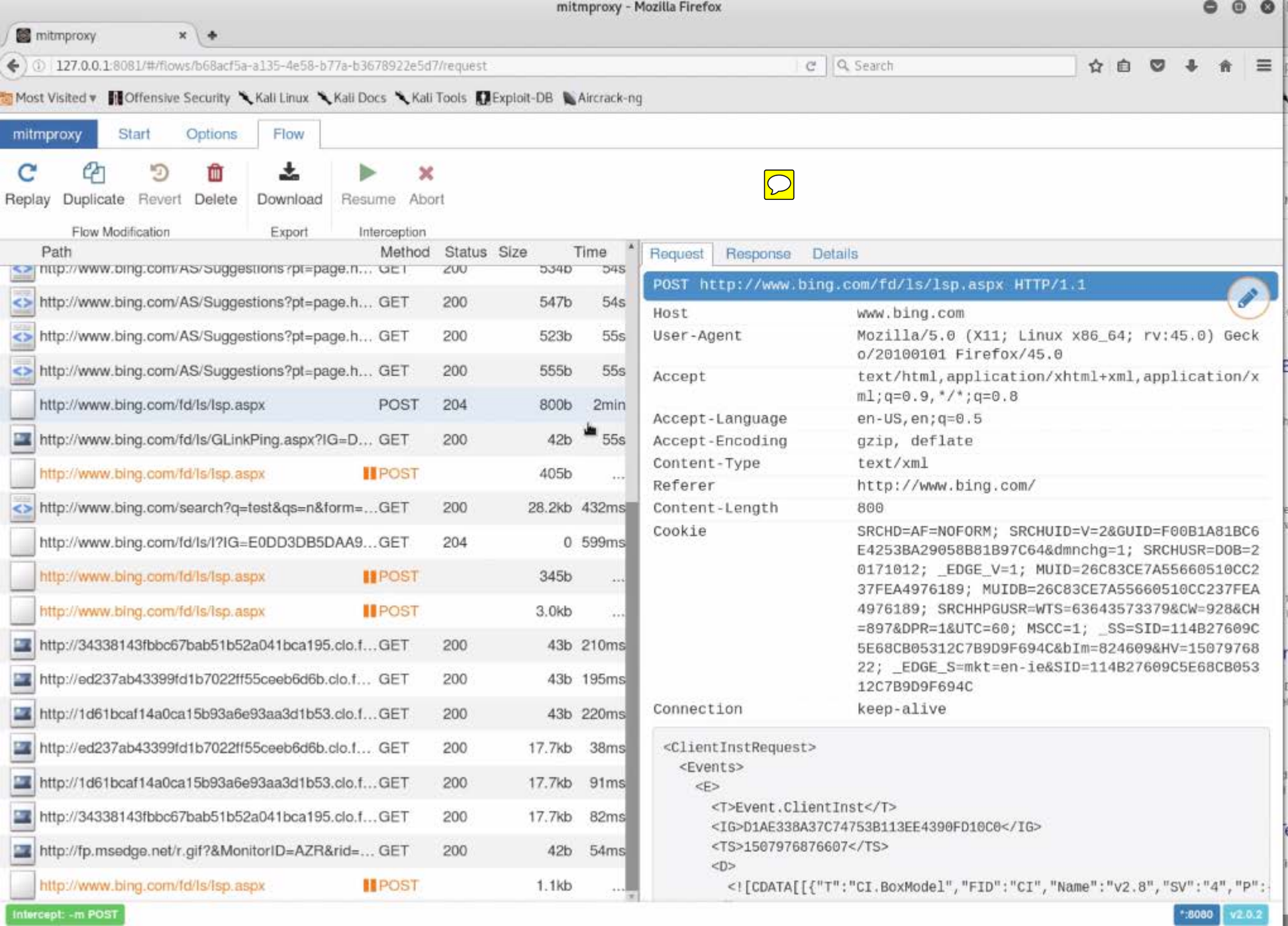
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Resume
Abort
Flow Modification
Export
Interception
Path
Method
Status
Size
Time
http://www.bing.com/AS/Suggestions?pt=page.h... GET 200 534b 54s
http://www.bing.com/AS/Suggestions?pt=page.h... GET 200 547b 54s
http://www.bing.com/AS/Suggestions?pt=page.h... GET 200 523b 55s
http://www.bing.com/AS/Suggestions?pt=page.h... GET 200 555b 55s
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http://www.bing.com/fd/ls/GLinkPing.aspx?IG=D... GET 200 42b 55s
http://www.bing.com/fd/ls/lsp.aspx POST 405b ...
http://www.bing.com/search?q=test&qs=n&form=... GET 200 28.2kb 432ms
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http://www.bing.com/fd/ls/lsp.aspx POST 345b ...
http://www.bing.com/fd/ls/lsp.aspx POST 3.0kb ...
http://34338143fbbc67bab51b52a041bca195.clo.f... GET 200 43b 210ms
http://ed237ab43399fd1b7022ff55ceeb6d6b.clo.f... GET 200 43b 195ms
http://1d61bcaf14a0ca15b93a6e93aa3d1b53.clo.f... GET 200 43b 220ms
http://ed237ab43399fd1b7022ff55ceeb6d6b.clo.f... GET 200 17.7kb 38ms
http://1d61bcaf14a0ca15b93a6e93aa3d1b53.clo.f... GET 200 17.7kb 91ms
http://34338143fbbc67bab51b52a041bca195.clo.f... GET 200 17.7kb 82ms
http://fp.msedge.net/r.gif?&MonitorID=AZR&rid=... GET 200 42b 54ms
http://www.bing.com/fd/ls/lsp.aspx POST 1.1kb ...
Request
Response
Details
POST http://www.bing.com/fd/ls/lsp.aspx HTTP/1.1
Host www.bing.com
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Accept text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language en-US,en;q=0.5
Accept-Encoding gzip, deflate
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Content-Length 800
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Intercept: -m POST
*:8080
v2.0.2
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Search Speed Of
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mitmproxy | Start | Options | Flow

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/*

Path	Method	Status	Size	Time
http://www.bing.com/fd/ls/l?IG=E0DD3DB5DAA9...GET	GET	204	0	599ms
http://www.bing.com/fd/ls/lsp.aspx	POST		345b	...
http://www.bing.com/fd/ls/lsp.aspx	POST		3.0kb	...
http://34338143fbbc67bab51b52a041bca195.clo.f...	GET	200	43b	210ms
http://ed237ab43399fd1b7022ff55ceeb6d6b.clo.f...	GET	200	43b	195ms
http://1d61bcaf14a0ca15b93a6e93aa3d1b53.clo.f...	GET	200	43b	220ms
http://ed237ab43399fd1b7022ff55ceeb6d6b.clo.f...	GET	200	17.7kb	38ms
http://1d61bcaf14a0ca15b93a6e93aa3d1b53.clo.f...	GET	200	17.7kb	91ms
http://34338143fbbc67bab51b52a041bca195.clo.f...	GET	200	17.7kb	82ms
http://fp.msedge.net/r.gif?&MonitorID=AZR&rid=...	GET	200	42b	54ms
http://www.bing.com/fd/ls/lsp.aspx	POST		1.1kb	...
http://www.bing.com/fd/ls/lsp.aspx	POST		397b	...
http://www.bing.com/fd/ls/lsp.aspx	POST		398b	...
http://www.bing.com/fd/ls/lsp.aspx	POST		606b	...
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http://www.bing.com/fd/ls/lsp.aspx	POST		425b	...
http://www.speedtest.net/?noflash=1	GET		0b	...
http://google.com/	GET		0b	...
http://facebook.com/	GET		0b	...

Intercept: /*

Request | Details

POST http://www.bing.com/

Host	ww
User-Agent	Mo o/
Accept	te ml
Accept-Language	en
Accept-Encoding	gz
Content-Type	te
Referer	ht
Content-Length	40
Cookie	SR E4 01 37 49 =8 5E 22 12
Connection	ke

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      <TS>1507976876763</T
      <D>
        <![CDATA[[{"T":"CI
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test - Bing - Mozilla Firefox

Connecting...

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~s

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~bs </body>

Path	Method	Status	Size	Time
http://www.bing.co…	POST	204	339b	45ms
http://www.bing.co…	GET	200	0	895ms
http://www.bing.co…	GET	200	4.3kb	265ms
http://www.bing.co…	GET	200	11.6kb	64ms
http://www.bing.co…	GET	200	480b	1s
http://www.bing.co…	GET	204	0	201ms
http://www.bing.co…	POST	204	2.4kb	3s
http://www.bing.co…	POST	204	435b	5s
http://www.bing.co…	POST	204	423b	55ms
http://www.bing.co…	POST	204	433b	3s
http://www.bing.com/	GET	200	30.6kb	290ms

Request | Response | Details

HTTP/1.1 200 OK

Cache-Control	private, max-age=0
Content-Length	31355
Content-Type	text/html; charset=utf-8
Content-Encoding	gzip
Vary	Accept-Encoding
P3P	CP="NON UNI COM NAV STA LOC CUR a DEVa PSAa PSDa OUR IND"
X-MSEdge-Ref	Ref A: 9B667CF66D21472DBD95751BC1E5DDFA Ref B: DB3EDGE0712 Ref C: 2017-10-14T11:04:37Z
Date	Sat, 14 Oct 2017 11:04:37 GMT

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transi
<html lang="en" xml:lang="en" xmlns="http://www.w3.
<script type="text/javascript">
  //
  <![CDATA[
```

Intercept: ~bs </body>

*:8080 v2.0.2

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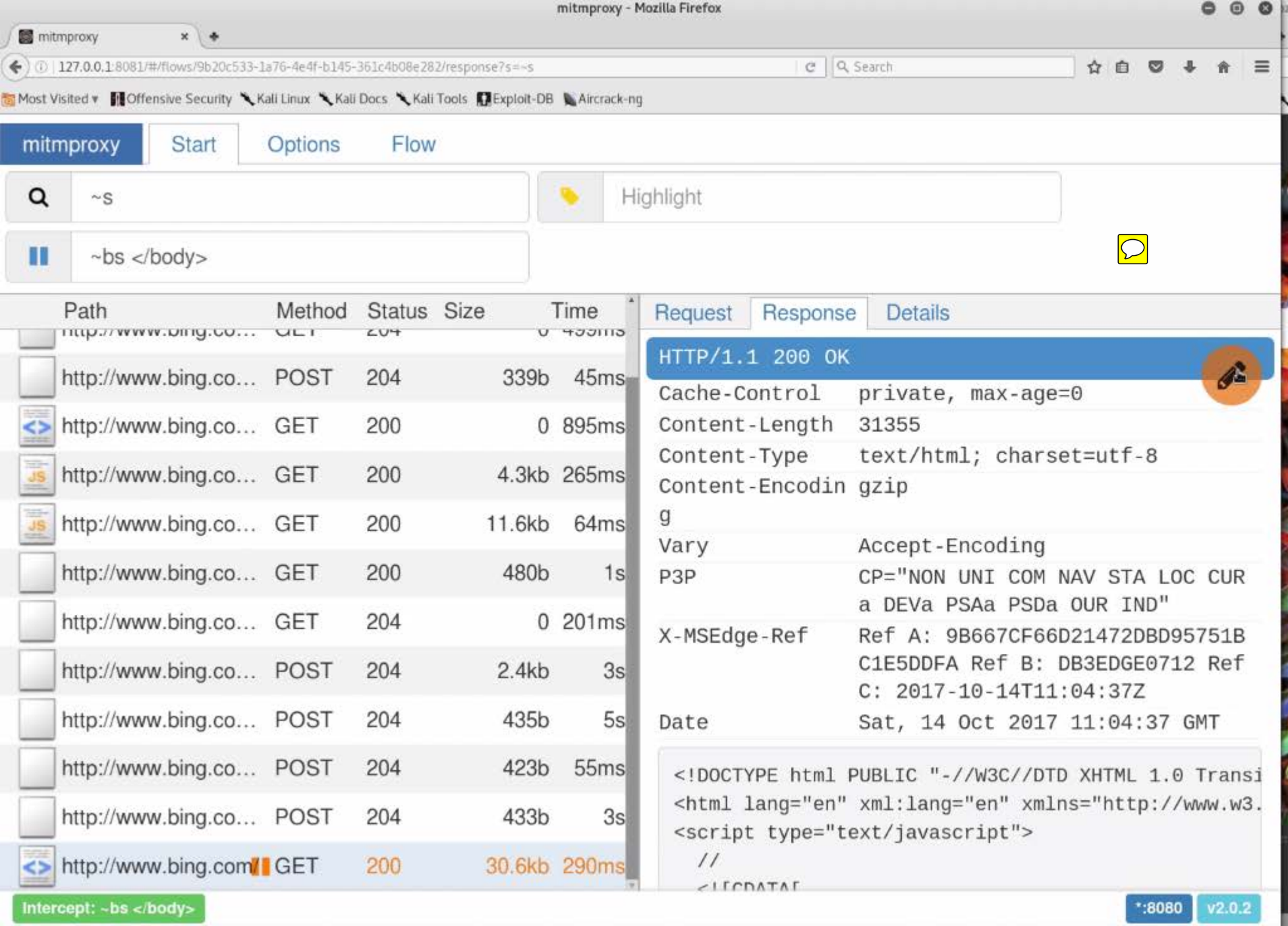
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127.0.0.1:8081/#/flows/9b20c533-1a76-4e4f-b145-361c4b08e282/response?s=~s
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Start
Options
Flow
~s
Highlight
~bs </body>
Path
Method
Status
Size
Time
http://www.bing.co...
POST
204
339b
45ms
http://www.bing.co...
GET
200
0
895ms
http://www.bing.co...
GET
200
4.3kb
265ms
http://www.bing.co...
GET
200
11.6kb
64ms
http://www.bing.co...
GET
200
480b
1s
http://www.bing.co...
GET
204
0
201ms
http://www.bing.co...
POST
204
2.4kb
3s
http://www.bing.co...
POST
204
435b
5s
http://www.bing.co...
POST
204
423b
55ms
http://www.bing.co...
POST
204
433b
3s
http://www.bing.com/
GET
200
30.6kb
290ms
Request
Response
Details
HTTP/1.1 200 OK
Cache-Control private, max-age=0
Content-Length 31355
Content-Type text/html; charset=utf-8
Content-Encoding gzip
Vary Accept-Encoding
P3P CP="NON UNI COM NAV STA LOC CUR a DEVa PSAa PSDa OUR IND"
X-MSEdge-Ref Ref A: 9B667CF66D21472DBD95751BC1E5DDFA Ref B: DB3EDGE0712 Ref C: 2017-10-14T11:04:37Z
Date Sat, 14 Oct 2017 11:04:37 GMT
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transi
<html lang="en" xml:lang="en" xmlns="http://www.w3.
<script type="text/javascript">
//
Intercept: ~bs </body>
*:8080
v2.0.2
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mitmproxy - Mozilla Firefox

mitmproxy

127.0.0.1:8081/#/flows/9b20c533-1a76-4e4f-b145-361c4b08e282/response?s=~s

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mitmproxy | Start | Options | Flow

~s

Highlight

~bs </body>

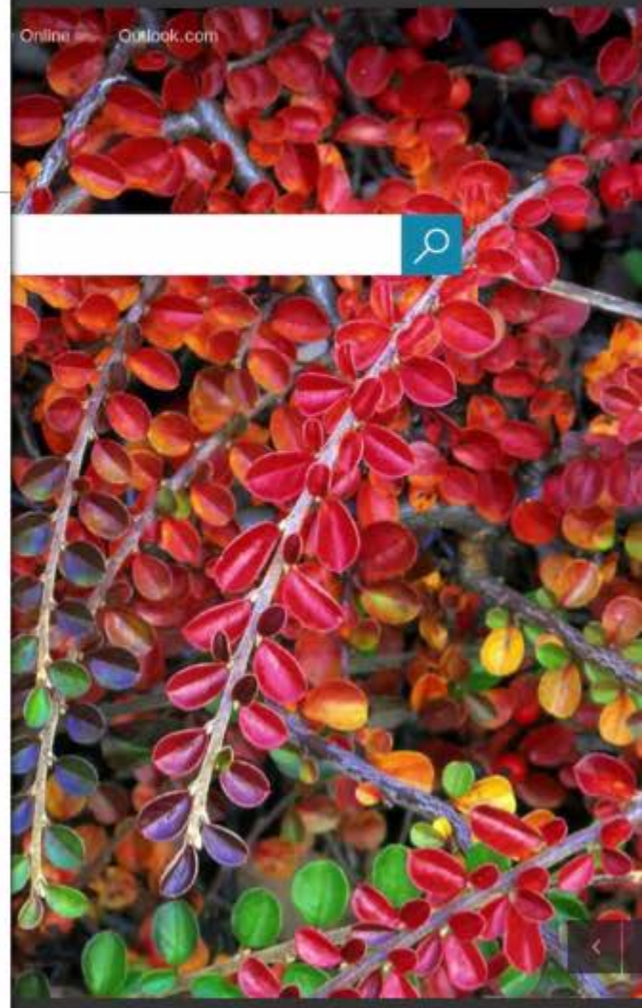
Path	Method	Status	Size	Time
http://www.bing.co…	POST	204	339b	45ms
http://www.bing.co…	GET	200	0	895ms
http://www.bing.co…	GET	200	4.3kb	265ms
http://www.bing.co…	GET	200	11.6kb	64ms
http://www.bing.co…	GET	200	480b	1s
http://www.bing.co…	GET	204	0	201ms
http://www.bing.co…	POST	204	2.4kb	3s
http://www.bing.co…	POST	204	435b	5s
http://www.bing.co…	POST	204	423b	55ms
http://www.bing.co…	POST	204	433b	3s
http://www.bing.com/	GET	200	30.6kb	290ms

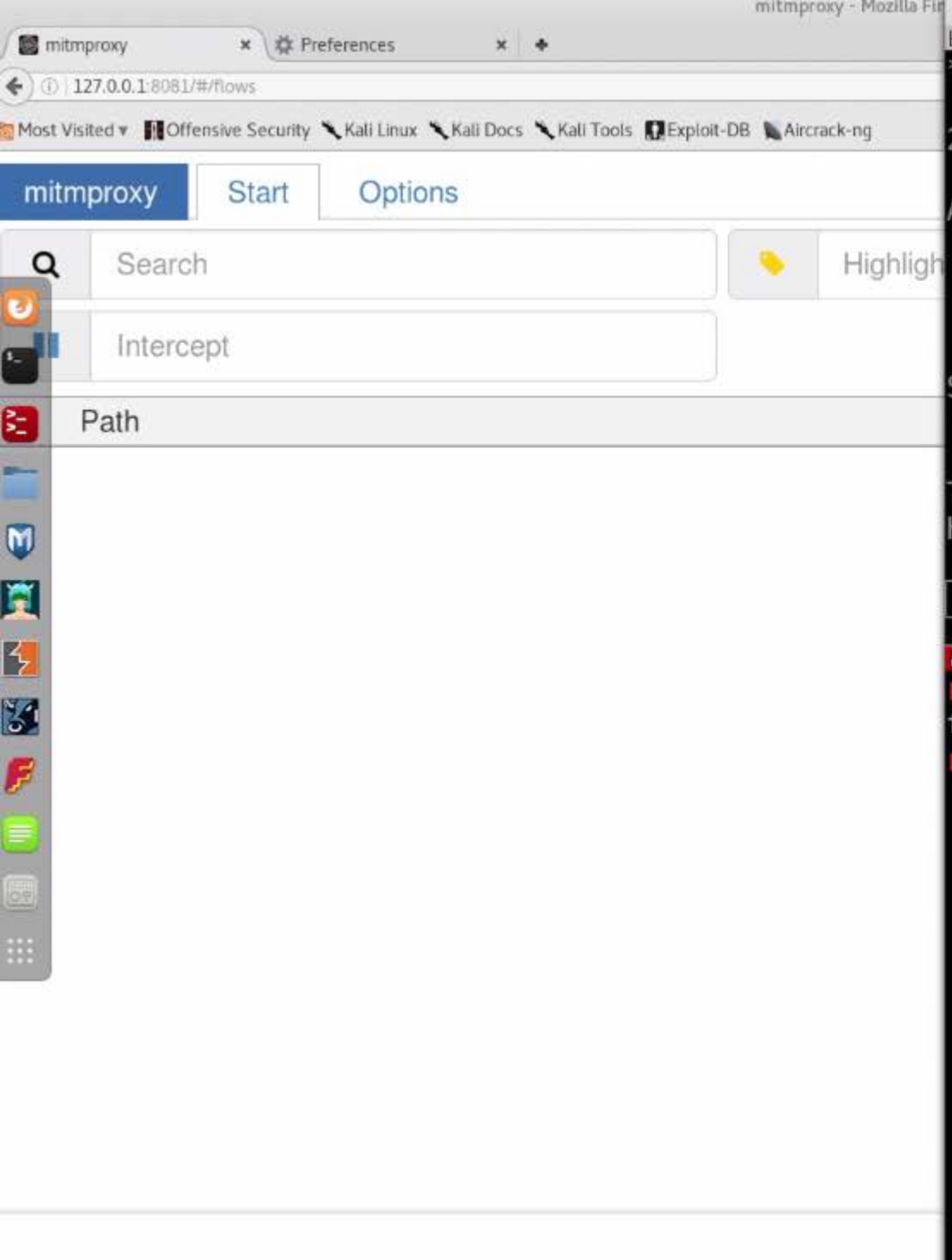
	C: 2017-10-14T11:04:37Z
Date	Sat, 14 Oct 2017 11:04:37 GMT

```
1 E html PUBLIC "-//W3C//DTD XHTML 1.0 Transiti
2 v Date;
3 cript><head><meta content="text/html; charset
4 ={ST:(si_ST?si_ST:new Date),Mkt:"en-US",RTL:f
5 cript><style type="text/css">html{overflow:au
6 define,require;(function(n){function e(n,i,u)
7 cript><title>Bing</title><link rel="icon" siz
8 ="8_01_0_000000"; var _H={}; _H.mkt = "en-IE
9 cript><table id="hp_table"><tr><td id="hp_cel
10 (n,t){onload=function(){_G.BPT=new Date;n&&n
11 cript><div id="aRmsDefer"><script type="text/
12 (n,t,i){function b(){f=!1;o=!1;s=!1;y=_ge("h
13 cript><script type="text/rms">//<![CDATA[
14 (){function n(){var n=_ge("outlook"),t=_ge("
15 cript></div><script>alert('test');</script></
16 v Date;
17 cript></html>
```

Intercept: ~bs </body>

*:8080 v2.0.2




mitmproxy - Mozilla Fir
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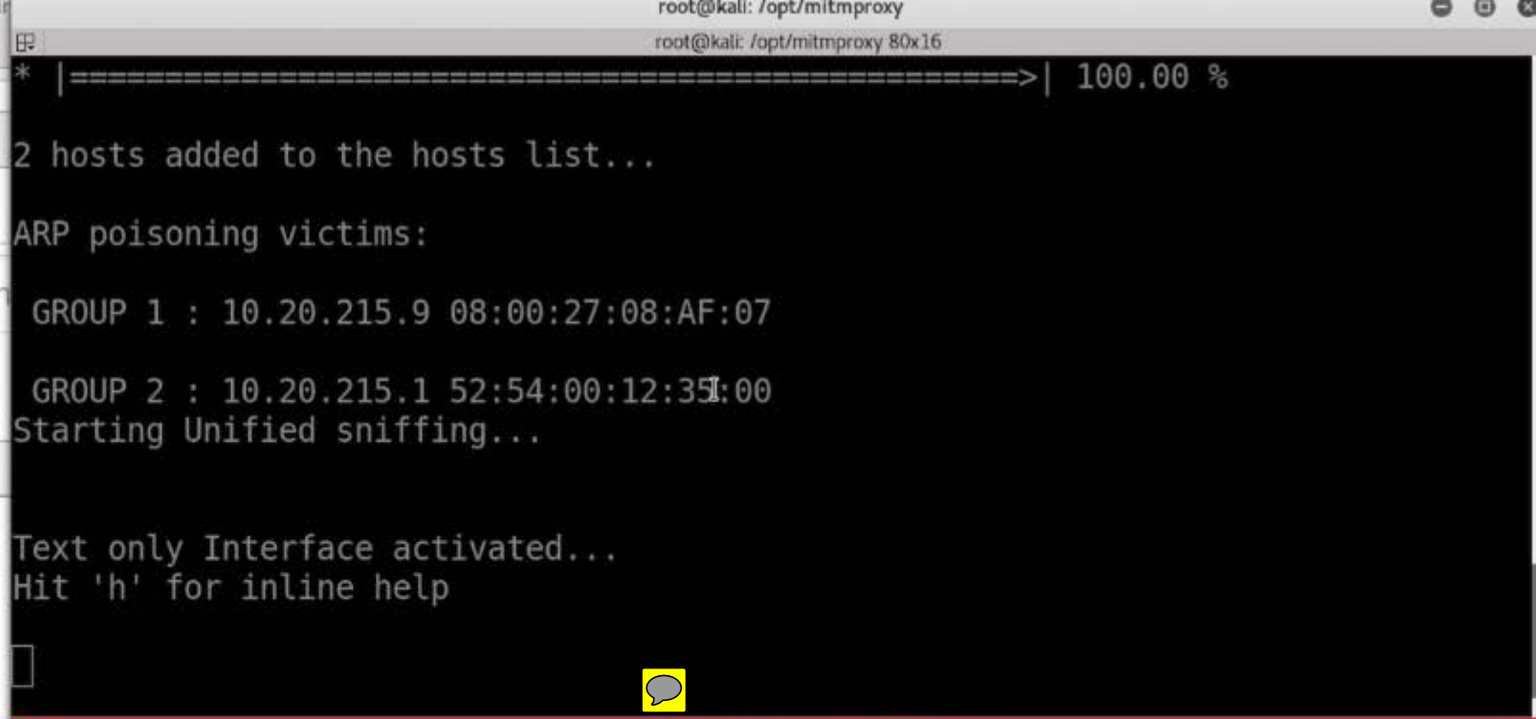
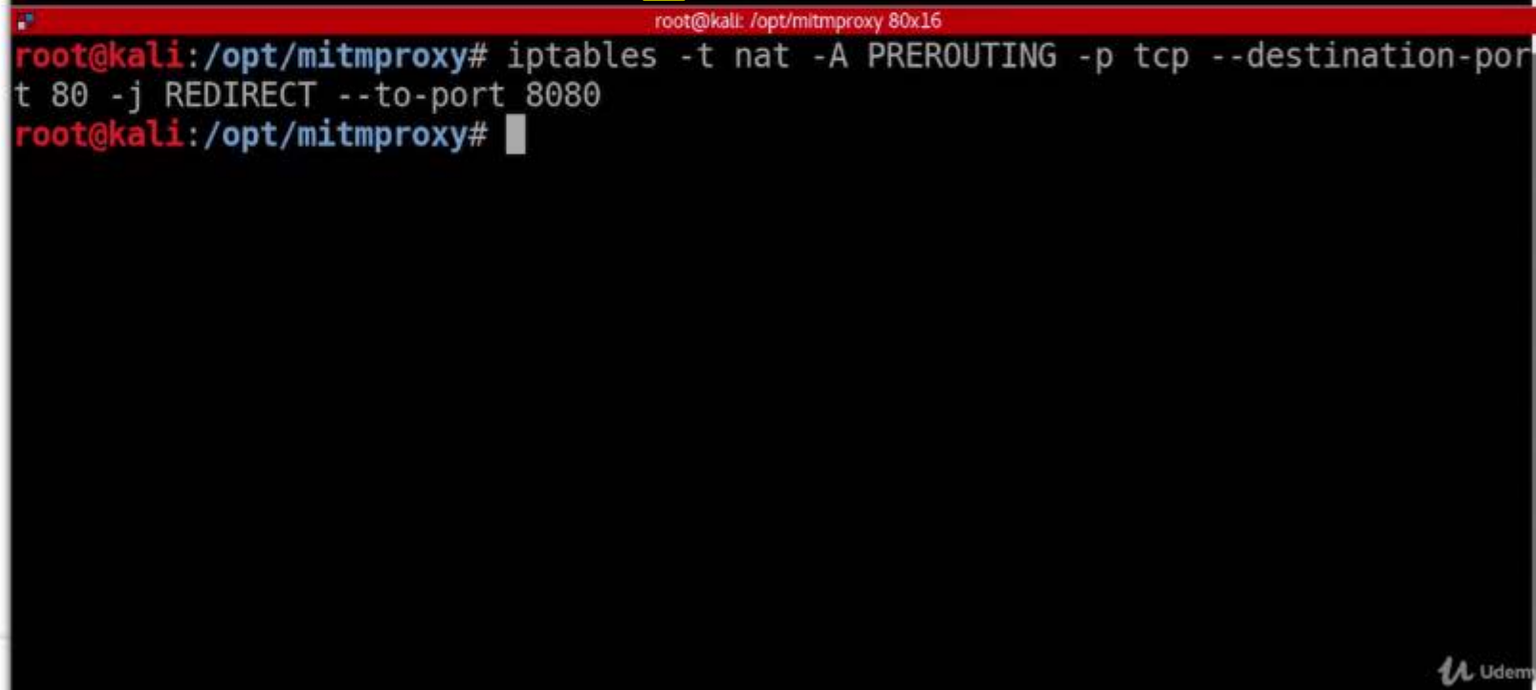
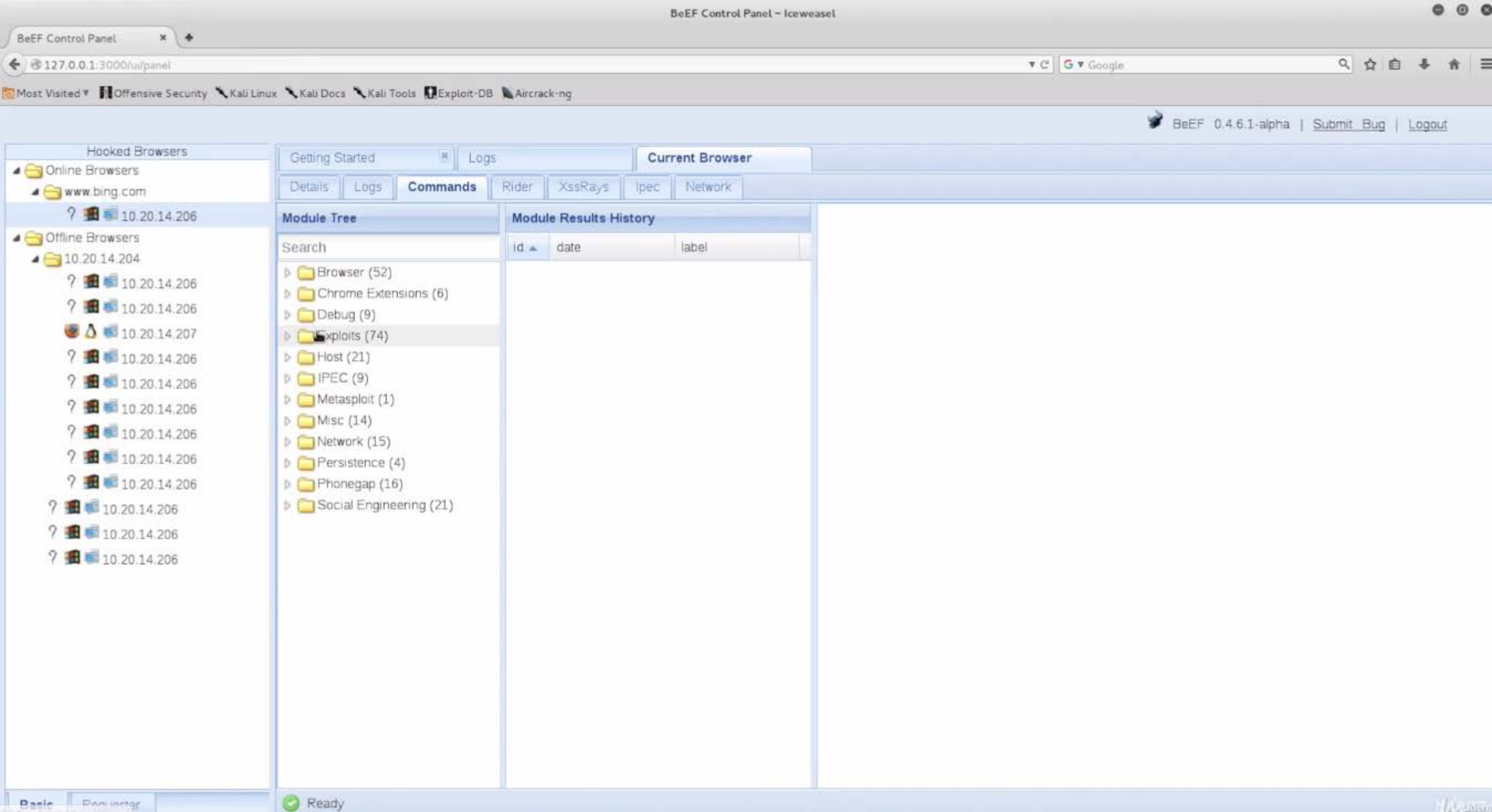

root@kali: /opt/mitmproxy
root@kali: /opt/mitmproxy 80x16
* |==========>| 100.00 %
2 hosts added to the hosts list...
ARP poisoning victims:
GROUP 1 : 10.20.215.9 08:00:27:08:AF:07
GROUP 2 : 10.20.215.1 52:54:00:12:35:00
Starting Unified sniffing...
Text only Interface activated...
Hit 'h' for inline help


root@kali: /opt/mitmproxy 80x16
root@kali:/opt/mitmproxy# iptables -t nat -A PREROUTING -p tcp --destination-por
t 80 -j REDIRECT --to-port 8080
root@kali:/opt/mitmproxy#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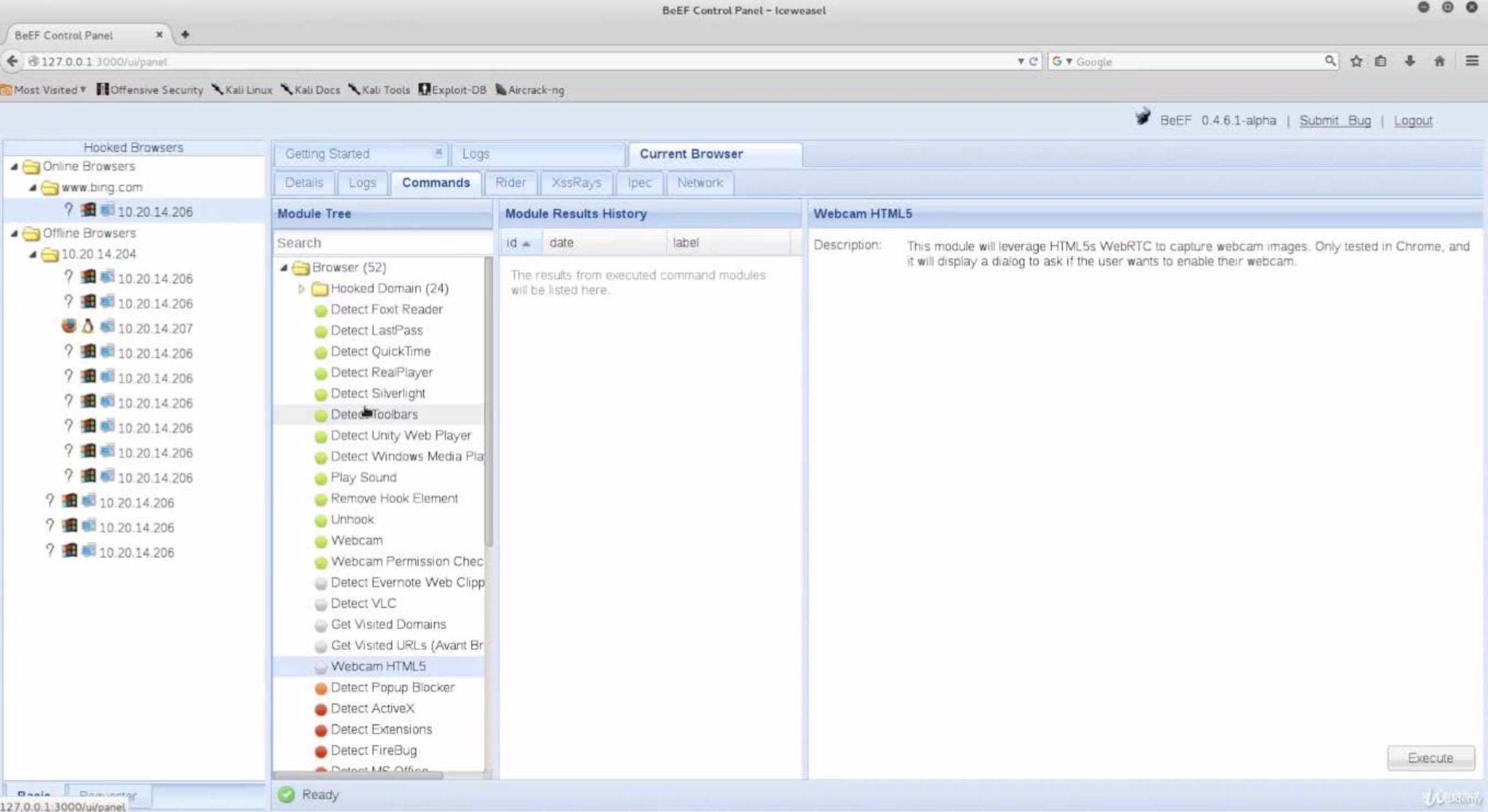
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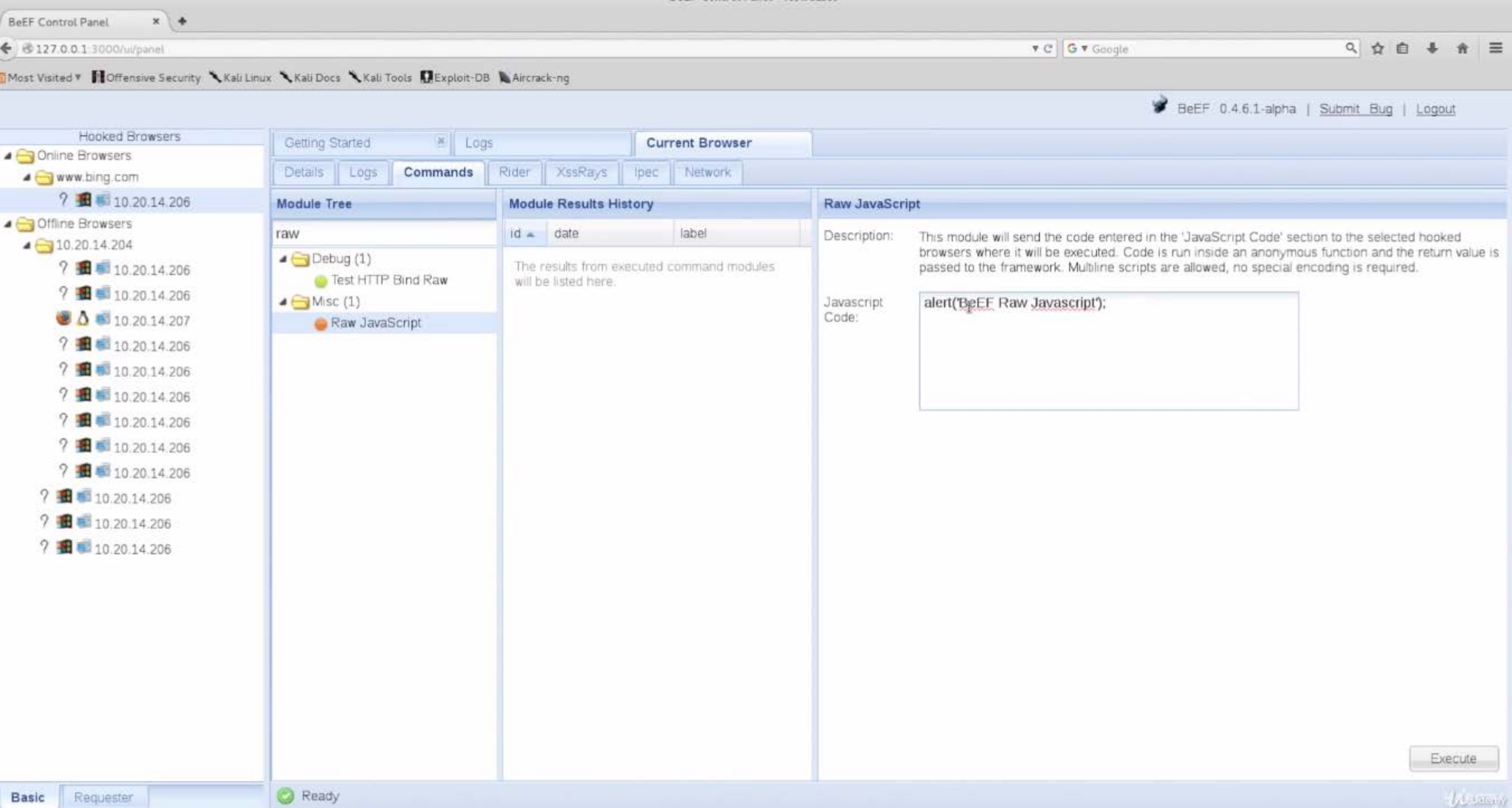
Detect VLC
Get Visited Domains
Get Visited URLs (Avant Br
Webcam HTML5
Detect Popup Blocker
Detect ActiveX
Detect Extensions
Detect FireBug
Module Results History
id
date
label
The results from executed command modules will be listed here.
Webcam HTML5
Description:
This module will leverage HTML5s WebRTC to capture webcam images. Only tested in Chrome, and it will display a dialog to ask if the user wants to enable their webcam.
Execute
Ready
127.0.0.1:3000/ui/panel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Debug (1)
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Raw JavaScript
Module Results History
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date
label
The results from executed command modules will be listed here.
Raw JavaScript
Description:
This module will send the code entered in the 'JavaScript Code' section to the selected hooked browsers where it will be executed. Code is run inside an anonymous function and the return value is passed to the framework. Multiline scripts are allowed, no special encoding is required.
Javascript Code:
alert('BeEF Raw Javascript');
Execute
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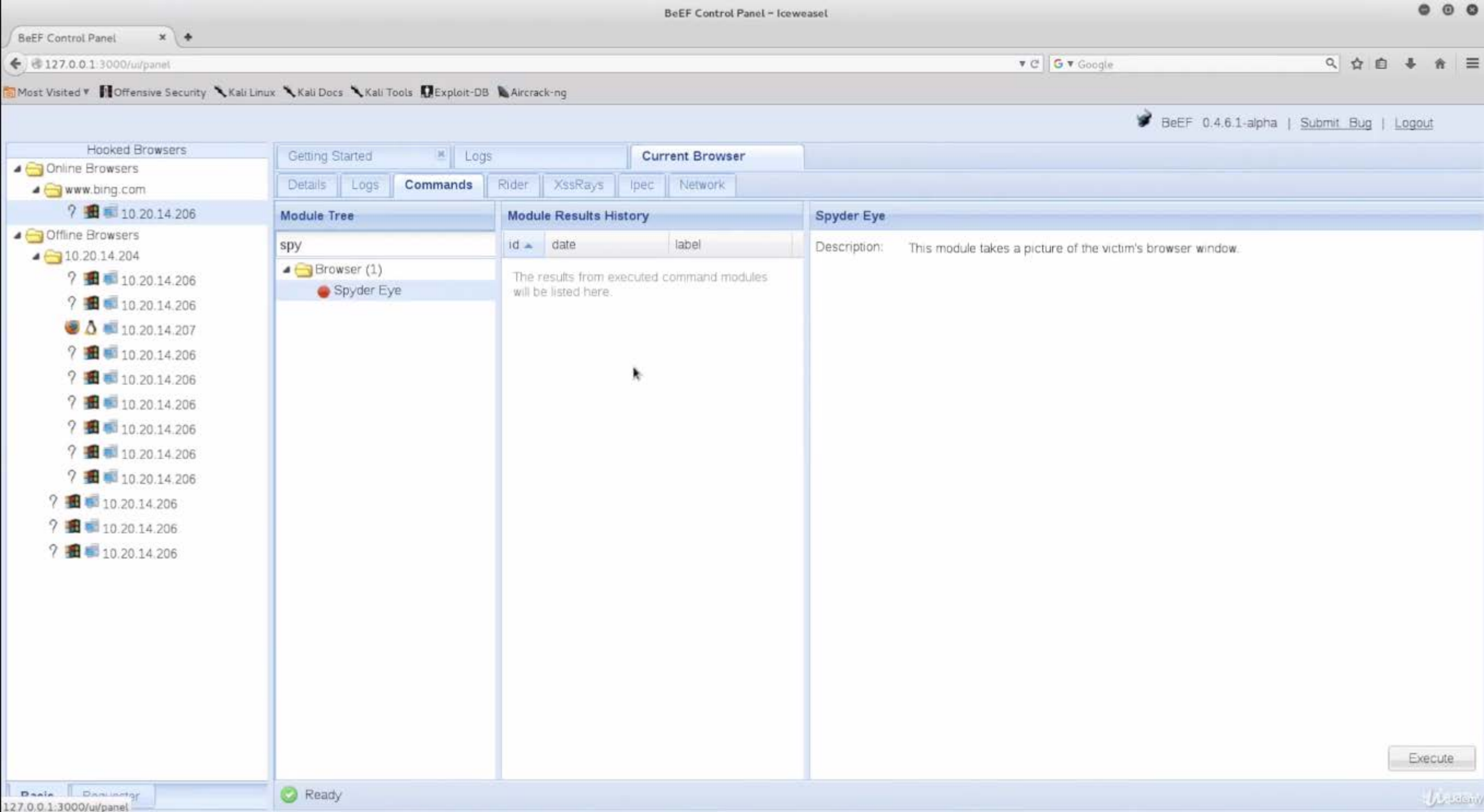
Requester
Ready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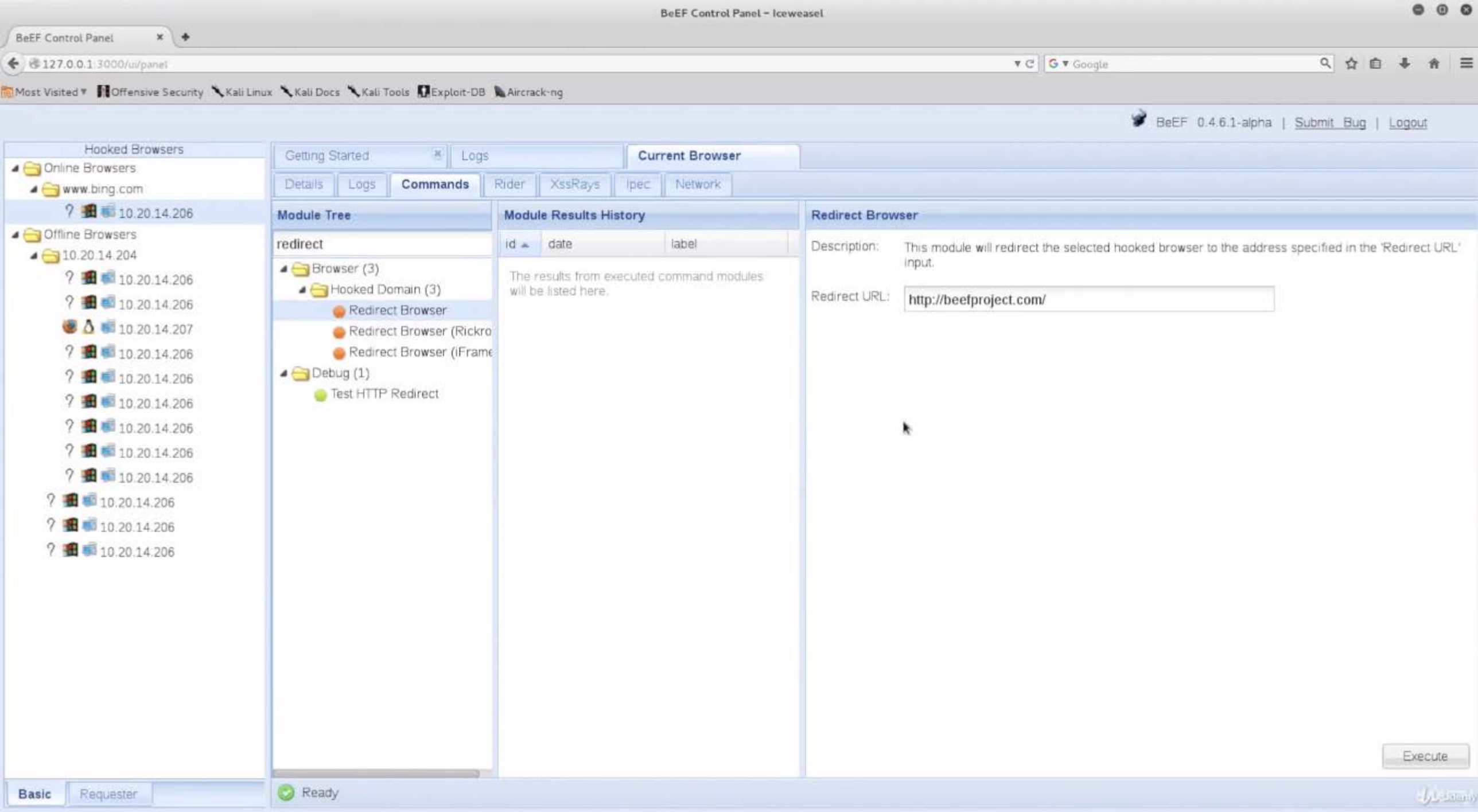
Spyder Eye
Module Results History
id
date
label
The results from executed command modules will be listed here.
Spyder Eye
Description:
This module takes a picture of the victim's browser window.
Execute
Ready
127.0.0.1:3000/ui/panel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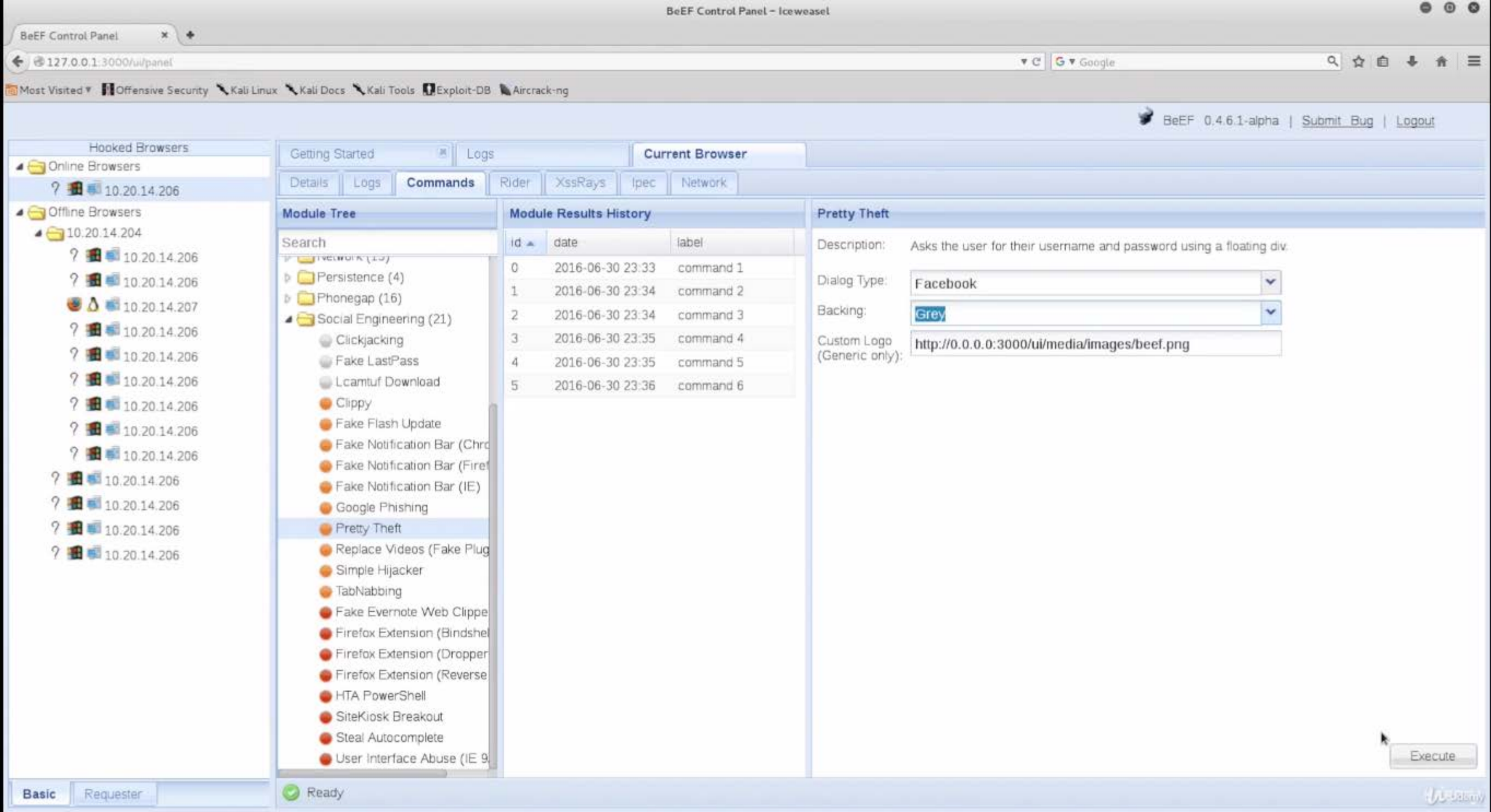
Redirect Browser
Redirect Browser (Rickro
Redirect Browser (iFrame
Debug (1)
Test HTTP Redirect
Module Results History
id
date
label
The results from executed command modules will be listed here.
Redirect Browser
Description:
This module will redirect the selected hooked browser to the address specified in the 'Redirect URL' input.
Redirect URL:
http://beefproject.com/
Execute
Ready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Fake Evernote Web Clippe
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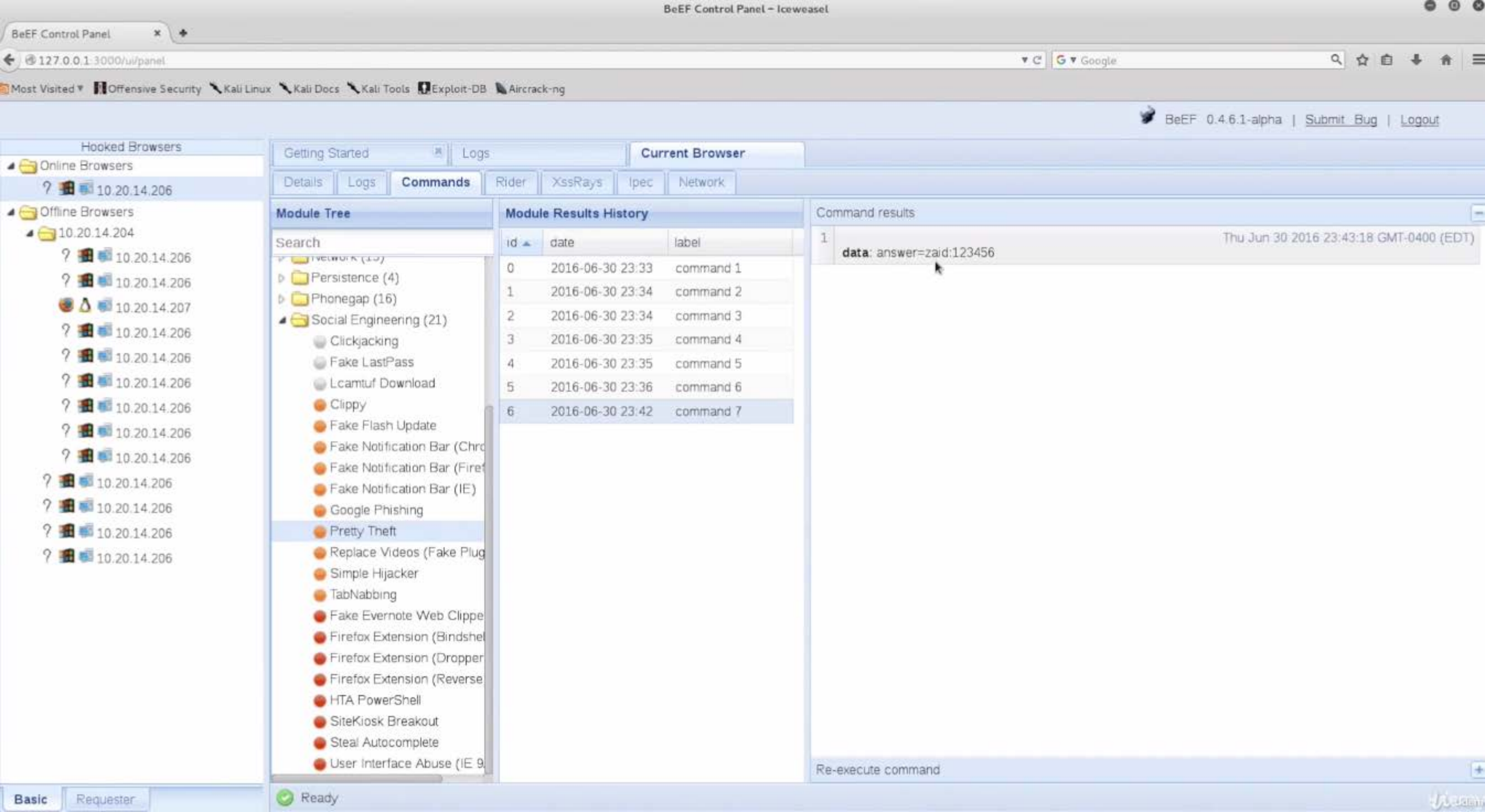
Firefox Extension (Dropper
Firefox Extension (Reverse
HTA PowerShell
SiteKiosk Breakout
Steal Autocomplete
User Interface Abuse (IE 9
Module Results History
id
date
label
0 2016-06-30 23:33 command 1
1 2016-06-30 23:34 command 2
2 2016-06-30 23:34 command 3
3 2016-06-30 23:35 command 4
4 2016-06-30 23:35 command 5
5 2016-06-30 23:36 command 6
Pretty Theft
Description: Asks the user for their username and password using a floating div
Dialog Type: Facebook
Backing: Grey
Custom Logo (Generic only): http://0.0.0.0:3000/ui/media/images/beef.png
Execute
Ready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Fake Flash Update
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Fake Notification Bar (IE)
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Replace Videos (Fake Plug
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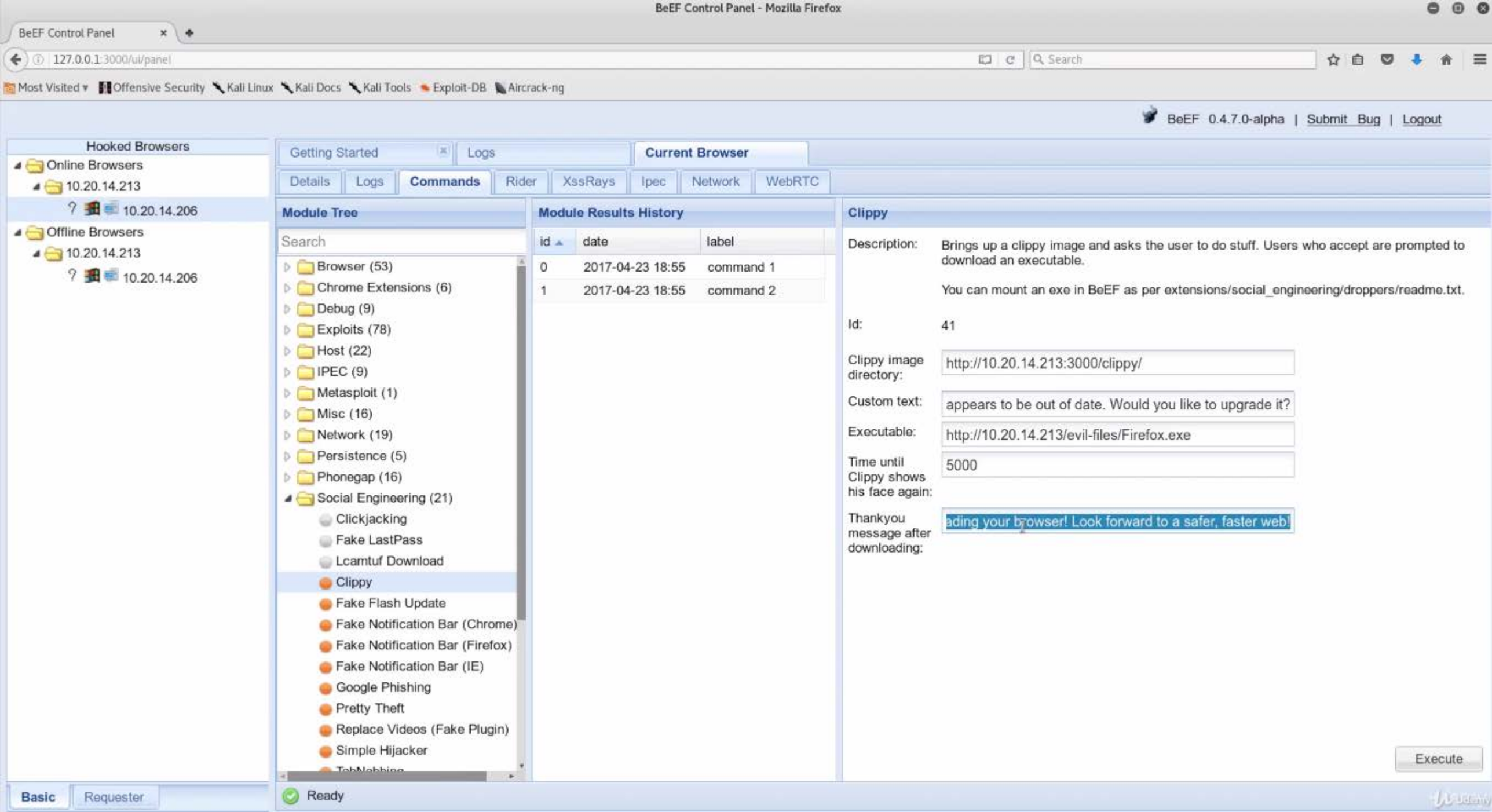
TabNabbing
Fake Evernote Web Clippe
Firefox Extension (Bindshel
Firefox Extension (Dropper
Firefox Extension (Reverse
HTA PowerShell
SiteKiosk Breakout
Steal Autocomplete
User Interface Abuse (IE 9
Module Results History
id
date
label
0 2016-06-30 23:33 command 1
1 2016-06-30 23:34 command 2
2 2016-06-30 23:34 command 3
3 2016-06-30 23:35 command 4
4 2016-06-30 23:35 command 5
5 2016-06-30 23:36 command 6
6 2016-06-30 23:42 command 7
Command results
1
Thu Jun 30 2016 23:43:18 GMT-0400 (EDT)
data: answer=zaid:123456
Re-execute command
Ready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BeEF Control Panel
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Fake Notification Bar (Firefox)
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Pretty Theft
Replace Videos (Fake Plugin)
Simple Hijacker
Module Results History
id
date
label
0
2017-04-23 18:55
command 1
1
2017-04-23 18:55
command 2
Clippy
Description:
Brings up a clippy image and asks the user to do stuff. Users who accept are prompted to download an executable.
You can mount an exe in BeEF as per extensions/social_engineering/droppers/readme.txt.
Id:
41
Clippy image directory:
http://10.20.14.213:3000/clippy/
Custom text:
appears to be out of date. Would you like to upgrade it?
Executable:
http://10.20.14.213/evil-files/Firefox.exe
Time until Clippy shows his face again:
5000
Thankyou message after downloading:
ading your browser! Look forward to a safer, faster web!
Execute
Basic
Requester
Ready