CVE

Jaap Marcus a year ago

## Use of Wrong Operator in String Comparison in hestiacp/hestiacp ✓ Valid Reported on Sep 10th 2021 Description \$\_SESSION["token"] is a csrf token which is a md5 hash generated based on system time. It has been discovered that \$\_SESSION["token"] compares with \$\_GET["token"] using comparison operator <code>!=</code> in file <code>index.php</code> . This might cause unexpected behavior due to type juggling. It is possible to bypass the CSRF token by using magic hash attack, and leveraged to perform CSRF attack. Remediation Use !== instead. Occurrences ndex.php L9 ndex.php L305 References Comparison Operators Vulnerability Type Affected Version Visibility Status Viky unranked \ Jaap Marcus maintainer We have contacted a member of the **hestiacp** team and are waiting to hear back a year ago Viky submitted a patch a year ago Viky submitted a patch a year ago Viky has been awarded the disclosure bounty 🗸

Patch is not complete there are more files affected. I will go over all files and fix the issues if you

```
Jaap Marcus marked this as fixed with commit fc68ba a year ago
    Jaap Marcus has been awarded the fix bounty 🗸
     This vulnerability will not receive a CVE 🗶
Viky a year ago
                                                                                                                                                                                                Researcher
@admin can I have a cve?
Jamie Slome a year ago
                                                                                                                                                                                                         Admin
CVE published! 👭
CVE-2021-3797
Jaap Marcus a year ago
I think a CVE is a bit over done:
Token is not generated by MD5 but
So in the rare cases where \_SESSION['token'] is empty what should never happen or in the rare
cases where the generated session token would generate a valid number.
With a 16 char length random string the chances would be very small.
I do agree the suggested improvements are correct and valid but practical use it would be
almost impossible to abuse it.
Jamie Slome a year ago
                                                                                                                                                                                                        Admin
Hello Jaap, 🦂
We published the CVE as you indicated that this was a valid security issue and agreed with the
contents of the report (CVSS etc.).
myvesta a year ago
He said: "should never happen or in the rare cases"
That's not correct.
Correct is that this issue is IMPOSSIBLE to happen.
Even session_id is number '==' will correctly do it's job.
'==' will fail only if session_id is '0' and token is empty.
So, to be precisely, you have CVE that is impossible to produce.
I will not confirm this issue in VestaCP and myVesta.
myvesta a year ago
"0x" will match empty value
I will do additional check.
I appologize for my previous comment.
Jaap Marcus a year ago
                                                                                                                                                                                                Maintainer
     <?php
     $i = 0:
     while(1 == 1){
     $i++:
     $\frac{1}{2}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}{2}}\text{$\frac{1}
               echo token."\r\n";
```

if(\$token == 0){

```
echo "Match found";
               echo token ."\r\n";
               echo i."\r\n";
               die();
  }

root@dev:~# php poc.php
0eb90ab7a008d65842b9996f9d32043e
Match found after: xx attempts...
I also noticed the issue was against an old branch master. We current use main..
myvesta a year ago
if ($token == ")
is not the same as
if ($token == 0)
but anyway, they have a point, someone can use 0 as token
myvesta a year ago
After additional check, looks like I was even correct.
we can not use example of
if ($token == 0)
because this is integer on right side, and $_GET['token'] will never be threated as integer.
So, at the end, this issue can not be exploited.
But however, I will change == to === in my fork, just to satisfy good code practice.
 Sign in to join this conversation
```

2022 © 418sed

## **huntr**home

loadorboard

leaderboard

FAQ

contact us

terms

privacy policy

## part of 418sec

about .