Use of Cryptographically Weak Pseudo-Random Number Generator (PRNG) in star7th/showdoc



✓ Valid Reported on Nov 18th 2021

Description

Logged in by LDAP will lead to a weak-password initialization,

```
<?php
```

```
if ($ldap_user == $username) {
//如果该用户不在数据库里,则帮助其注册
$userInfo = D("User")->isExist($username) ;
if(!$userInfo){
    D("User")->register($ldap_user,$ldap_user.time());
rs2=1dap\_bind(1dap\_conn, dn , password);// [when th]
if ($rs2) {//如果该用户不在数据库里,则帮助其注册
   D("User")->updatePwd($userInfo['uid'], $password);
   return $this->checkLogin($username,$password);
```





Proof of Concept

- 1) If there is a valid LDAP user , let's say named $\ensuremath{\textbf{tom}}$, once he activated his account(such as logged with a WRONG password: such tom/123456)
- 2) Then, a record will be add to the Database (by D("User ")->register(\$ldap_user,\$ldap_user.time());), with a password like tom1637248826 , but the change of password D("User")->updatePwd(\$ won't work
- 3) Because we all know that the password is like tom.time(), and time() is one kind of pseudo-random number, we could easily use brute force tool (such as Burp Intruder) to got it.
- 4) Thus in this situation, an attacker could brute force the password of tom's, until getting the password of tom1637248826

```
if ($rs2) {//如果该用户不在数据库里,则帮助其注册
                D("User")->updatePwd($userInfo['uid'], $password);
                return $this->checkLogin($username,$password);
```





Impact

This vulnerability is capable of: compromise a user by brute force his/her password in certain situation (log with a valid LDAP username but WRONG password)

References

- https://owasp.org/Top10/A02_2021-Cryptographic_Failures/
- https://cwe.mitre.org/data/definitions/338.html

Vulnerability Type

Severity

Found by



Fixed by



This report was seen 365 times

J	amie Slome ayearago	Admi
	This vulnerability will not receive a CVE 🗴	
	star7th has been awarded the fix bounty 🗸	
	star7th marked this as fixed in 2.9.13 with commit a9886f a year ago	
	The fix bounty is now up for grabs	
	hi-uncle has been awarded the disclosure bounty 🗸	
	star7th validated this vulnerability a year ago	
	We have contacted a member of the star7th/showdoc team and are waiting to hear ba a year ago	ick
	We are processing your report and will contact the star7th/showdoc team within 24 ho a year ago	

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