# Day15 PHP 开发-个人博客项目&登录验证 &Cookie&Session&验证码 安全

```
<form action="" method="POST">
 2
        帐号: <input type="text" name="user">
 3
        密码: <input type="password" name="pass">
        <input type="submit" value="提交">
 5
 6
   </form>
 8
   <?php
    header("Content-Type:text/html;charset=utf-8");
 9
    include('../config/conn.php');
10
11
    * Created by PhpStorm.
12
    * User: xiaodi
13
    * Date: 2021/12/30
14
   * Time: 12:28
15
16
    $username=$_POST['user'];
17
    $password=md5($_POST['pass']);
18
    //echo $password;
19
```

```
$sql="select * from sy_adminuser where
 20
     username='$username' and password='$password'";
 21
     echo $sql;
     $result=mysql_query($sql,$conn);
 22
     if (mysql_num_rows($result)){
 23
         setcookie('user',$username,0,'/');
 24
         header('Location: index.php');
 25
 26
     }
               П
     <?php
  1
  2
     * Created by PhpStorm.
  3
      * User: xiaodi
    * Date: 2021/12/30
    * Time: 12:28
  6
     header("Content-Type:text/html;charset=utf-8");
  8
     $user=$_COOKIE['user'];
  9
     if ($user==""){
 10
         header("Location: login.php");
 11
 12
         exit:
 13
     }else{
 14
         echo "欢迎登陆管理员首页!":
 15
     }
 +x寸代码x寸cookie的
                                       远程控制
2.1.2 SESSION验证
  1 <form action="" method="POST">
```

```
3
        帐号: <input type="text" name="user">
        密码: <input type="password" name="pass">
        <input type="submit" value="提交">
 6
    </form>
    <?php
    header("Content-Type:text/html;charset=utf-8");
 9
    include('../config/conn.php');
10
11
12
   * Created by PhpStorm.
13
    * User: xiaodi
     * Date: 2021/12/30
14
15
    * Time: 12:28
16
17
    $username=$_POST['user'];
    $password=md5($_POST['pass']);
18
19
    $captcha=$_POST['captcha'];
20
    //echo $password;
    $sql="select * from sy_adminuser where
21
    username='$username' and password='$password'";
22
   echo $sql;
23
    $result=mysql_query($sql,$conn);
24
    while($row=mysql_fetch_array($result)){
25
        session_start();
        $_SESSION['username'] = $row['username'];
26
27
        //echo $_SESSION['username'];
        header('Location: index.php');
28
29
    }
```

```
1 <?php
2 /**
3 * Created by PhpStorm.</pre>
```

```
* User: xiaodi
 5
     * Date: 2021/12/30
    * Time: 12:28
    header("Content-Type:text/html;charset=utf-8");
 8
 9
   session_start();
   $username=$_SESSION['username'];
10
   if($username=='admin'){
11
        echo '欢迎登陆管理员首页!':
12
13
   }else{
   echo <u>"请登录后访问! ";</u>
14
15
   }
```

针对session验证问题,可能会产生会话劫持问题,当用户登录某个页面时,会在服务器端产生session信息,攻击者盗用用户session 欺骗目标网站。

# 2.2 后台验证-验证码&万能密码等

#### 2.2.1 验证码问题

代码:

```
?php
session_start();//必须位于脚本的最顶端
$image=imagecreatetruecolor(100, 30);//imagecreatetruecolor函数建一个真彩色图像
//生成彩色像素
$bgcolor=imagecolorallocate($image, 255, 255, 255);//白色背景 imagecolorallocate函数为一幅图像分配颜色
$textcolor=imagecolorallocate($image,0,0,255);//蓝色文本
//填充函数,xy确定坐标,color颜色执行区域填充颜色
```

```
8
    imagefill($image, 0, 0, $bgcolor);
    $captch_code="";//初始空值
10
11
   //该循环,循环取数
12
   for($i=0;$i<4;$i++){
13
       $fontsize=6:
       x=($i*25)+rand(5,10);
14
       $y=rand(5,10);//位置随机
15
       // $fontcontent=$i>2?
16
    chr(rand(97,122)):chr(rand(65,90));//是小写,否则是
17
       $data='abcdefghijkmnpgrstuvwxyz3456789';
18
     $fontcontent=substr($data,rand(0,strlen($data)-
    1),1);
19
     $fontcolor=imagecolorallocate($image,rand(0,100))
    ),rand(0,100),rand(0,100));//随机的rgb()值可以自己
20
21
     imagestring($image,$fontsize,$x,$y,$fontcontent
    , $fontcolor); //水平地画一行字符串
        $captch_code.=$fontcontent;
22
23
    }
    $_SESSION['authcode']=$captch_code;//将变量保存再
24
    session的authcode变量中
25
26
   //该循环,循环画背景干扰的点
27
28
   for($m=0;$m<=600;$m++){
29
```

```
30
        x2=rand(1,99);
31
        $y2=rand(1,99);
32
     $pointcolor=imagecolorallocate($image, rand(0,25)
    5), rand(0,255), rand(0,255));
33
        imagesetpixel($image,$x2,$y2,$pointcolor);//
    水平地画一串像素点
34
    }
35
    //该循环,循环画干扰直线
36
37
    for ($i=0;$i<=10;$i++){}
38
        x1=rand(0,99);
        $y1=rand(0,99);
39
        x2=rand(0,99);
40
        $y2=rand(0,99);
41
42
     $linecolor=imagecolorallocate($image,rand(0,255))
    ), rand(0,255), rand(0,255));
43
     imageline($image,$x1,$y1,$x2,$y2,$linecolor);//
    画一条线段
44
45
    }
    header('content-type:image/png');
46
    imagepng($image);
47
    //销毁
48
    imagedestroy($image);
49
50
    ?>
```

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
```

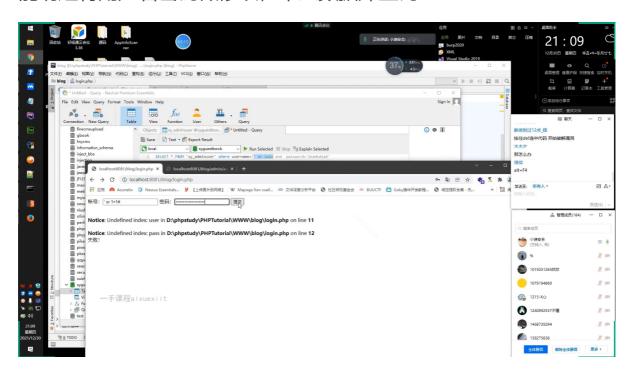
```
<!-- 简单的表单提交代码 -->
 5
       <meta charset="UTF-8">
       <meta name="viewport" content="width=device-</pre>
 6
   width, initial-scale=1.0">
        <meta http-equiv="X-UA-Compatible"</pre>
    content="ie=edge">
        <title>简单验证码的实现</title>
 8
   </head>
 9
   <body>
10
   <form method="post" action="">
11
12
       帐号: <input type="text" name="user">
       密码: <input type="password" name="pass">
13
       验证码图片:<img src="code.php"</p>
14
    onClick="this.src='code.php?
    nocache='+Math.random()" style="cursor:hand"
    alt="点击换一张"/>点击图片可更换验证码
        请输入图片中的内容:<input type="text"
15
    name="authcode" value=""/>
       <input type="submit" width="20px"
16
    height=19px value="提交"></input>
17
   </form>
18
19
   </body>
20
   </html>
21
22
   <?php
23
   include('config/conn.php');
   header("Content-type: text/html; charset=utf-
24
   8");
   // session 存值并匹配用户输入值
25
   if (isset($_REQUEST['authcode'])) {
26
       session_start();
27
```

```
28
        if
    (strtolower($_REQUEST['authcode'])==$_SESSION['a
    uthcode']) {//strtolower转化为小写的函数
            echo"输入正确!";
29
            $username=$_POST['user'];
30
            $password=md5($_POST['pass']);
31
            $sql="select * from sy_adminuser where
32
    username='$username' and password='$password'";
            $result=mysql_query($sql,$conn);
33
34
           if(mysql_num_rows($result)){
35
                $row=mysql_fetch_array($result);
                echo '成功!';
36
                session_start();
37
38
     $_SESSION['user']=$row['username'];//讲查询结果的
    数据进行赋值
                header("Location:
39
    admin/add_news.php");
40
            }else{
                echo '失败!';
41
42
                //header("Location: login.php");
43
            }
           # code...
44
45
       }
46
       else{
            echo"输入错误!";
47
       }
48
       exit();
49
50
   }
51
   ?>
```

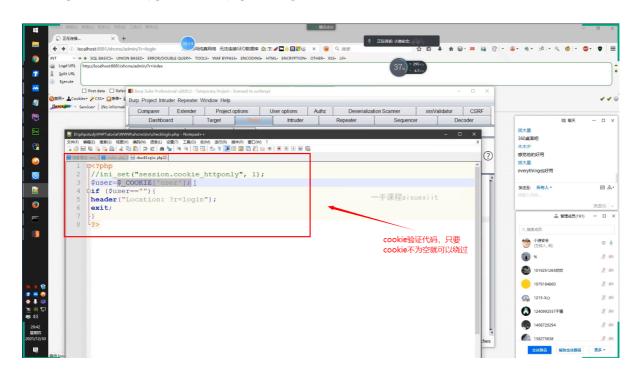
针对以上代码,验证码在输入错误时并没有销毁session信息,导致下一次重新登陆的时候,依然可以使用上一次的session信息,这样验证码就形同虚设,可以对用户名密码采用暴力破解,而不用管验证码。

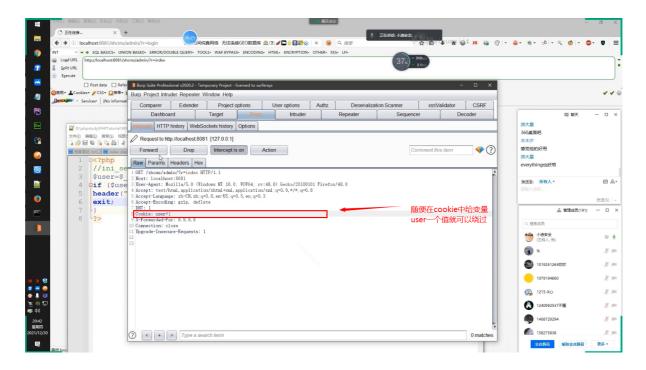
#### 2.2.2 万能密码问题

有些程序员对用户名密码校验的代码写的不严谨,可以直接使用万能钥匙将用户名密码做修改,带入数据库查询:



### 2.2 本地靶场-某 CMS 后台登录验证 COOKIE 脆弱





# 不用账号密码直接进入后台:

