CTF爆破

原创

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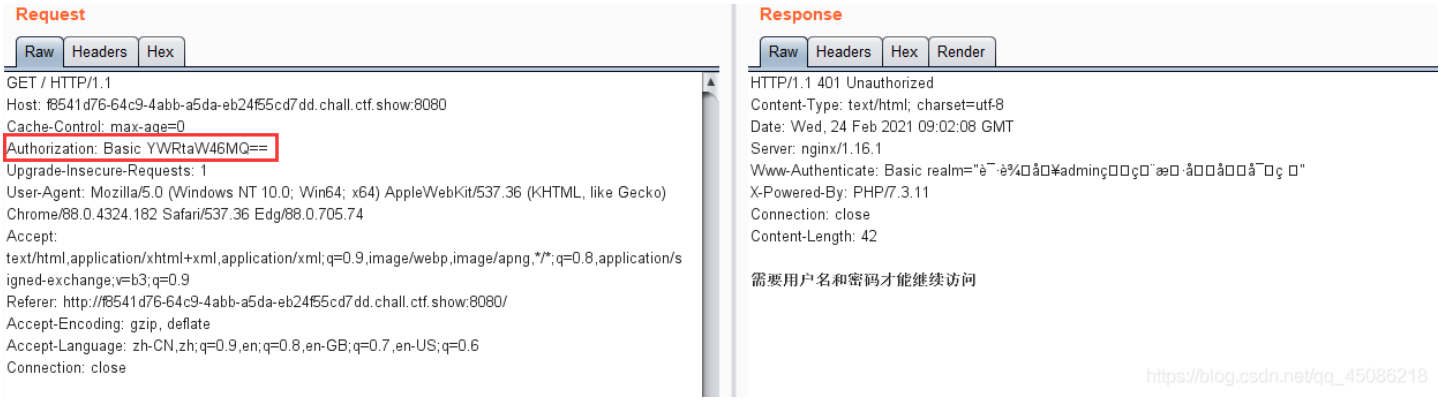
文章目录

本文以ctf.show网站题目为例，总结ctf中的爆破姿势

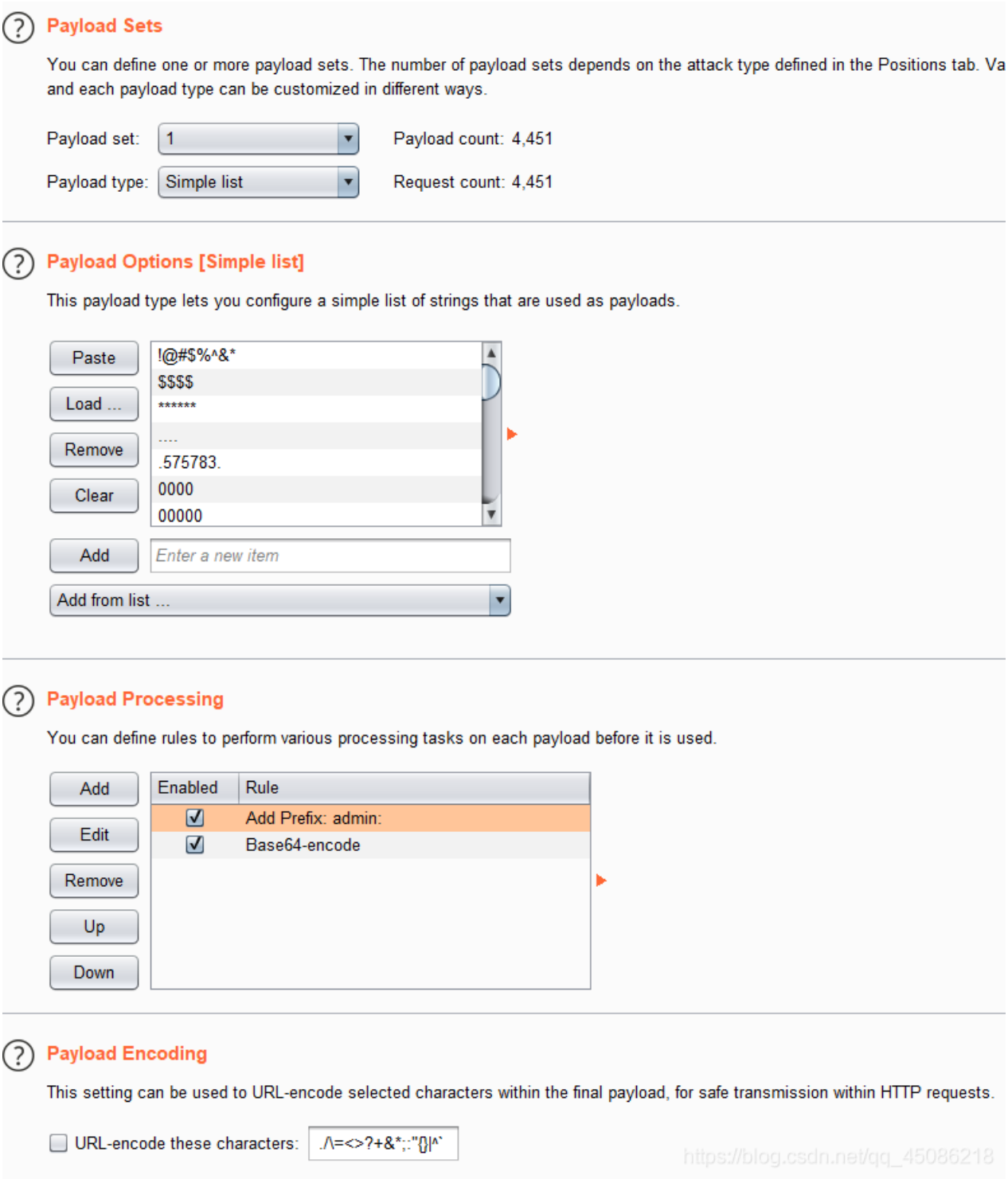
Authorization认证



Base64 编码或解码的结果：

admin:1

基于这一点进行爆破



域名爆破

二级域名挖掘

或通过BP爆破子域名：

*.ctfer.com

md5爆破

```
include('flag.php');
if(isset($_GET['token'])){
        $token = md5($_GET['token']);
        if(substr($token, 1,1)===substr($token, 14,1) && substr($token, 14,1) ===substr($token, 17,1)){
                if((intval(substr($token, 1,1))+intval(substr($token, 14,1))+substr($token, 17,1))/substr($token, 1,1)===intval(substr($token, 31,1))){
                        echo $flag;
                }
        }
}else{
        highlight_file(__FILE__);

}
```



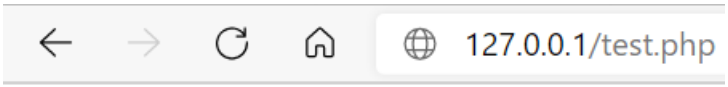
```php
<?php
error_reporting(0);

$a="asdfghjklqwertyuiopzxcvbnm1234567890";
for($i=0;$i<36;$i++){
    for($j=0;$j<36;$j++){
        $token=$a[$i].$a[$j];
        $token = md5($token);
        if(substr($token, 1,1)===substr($token, 14,1) && substr($token, 14,1) ===substr($token, 17,1)){
            if((intval(substr($token, 1,1))+intval(substr($token, 14,1))+substr($token, 17,1))/substr($token, 1,1)===intval(substr($token, 31,1))){
                echo $a[$i].$a[$j];
                exit(0);
            }
        }
    }
}
?>
```

伪随机数

```php
error_reporting(0);
include("flag.php");
if(isset($_GET['r'])){
        $r  =  $_GET['r'];
        mt_srand(372619038);
        if(intval($r)===intval(mt_rand())){
                echo  $flag;
        }
}else{
        highlight_file(__FILE__);
        echo  system('cat  /proc/version');
}
```

每一次mt_rand()被调用都会根据seed和当前调用的次数i来计算出一个伪随机数
可以用srand()或mt_srand()给随机数发生器播种
所以其实mt_rand是定值




```php
<?php
        highlight_file(__FILE__);
        mt_srand(372619038);
        echo(mt_rand());
?>
```

1155388967

php_mt_seed 爆破

```
sudo ./php_mt_seed 伪随机数
```

```
sknife@kali:~/php_mt_seed$ sudo ./php_mt_seed 597367078
Found 0, trying 973078528 - 1006632959, speed 143099783 seeds per second
Found 0, trying 1006632960 - 1040187391, speed 142987636 seeds per secon
d
seed = 1036634921
Found 1, trying 1040187392 - 1073741823, speed 143079421 seeds per secon
Found 1, trying 1073741824 - 1107296255, speed 142974943 seeds per secon
Found 1, trying 1107296256 - 1140850687, speed 142876936 seeds per secon
Found 1, trying 1140850688 - 1174405119, speed 142606336 seeds per secon
Found 1, trying 1174405120 - 1207959551, speed 142352135 seeds per secon
Found 1, trying 1207959552 - 1241513983, speed 142112888 seeds per secon
Found 1, trying 1241513984 - 1275068415, speed 142049654 seeds per secon
Found 1, trying 1275068416 - 1308622847, speed 141831859 seeds per secon
Found 1, trying 1308622848 - 1342177279, speed 141625849 seeds per secon
Found 1, trying 1342177280 - 1375731711, speed 141430693 seeds per secon
Found 1, trying 1375731712 - 1409286143, speed 141100688 seeds per secon
Found 1, trying 1409286144 - 1442840575, speed 140787826 seeds per secon
Found 1, trying 1442840576 - 1476395007, speed 140627736 seeds per secon
Found 1, trying 1476395008 - 1509949439, speed 140475262 seeds per secon
Found 1, trying 1509949440 - 1543503871, speed 140069521 seeds per secon
d
seed = 1531442241
Found 2, trying 1543503872 - 1577058303, speed 139810133 seeds per secon
Found 2, trying 1577058304 - 1610612735, speed 139562681 seeds per secon
Found 2, trying 1610612736 - 1644167167, speed 139367828 seeds per secon
```


目录爆破

两个以上的递归爆破类型选择Cluster bomb