

Day75 应急响应-数据库&漏洞口令检索&应急取证箱

75.1 知识点

- 1.第三方应用由于是选择性安装，如何做好信息收集和漏洞探针也是获取攻击者思路的重要操作，除去本身漏洞外，提前预知或口令相关攻击也要进行筛选。
- 2.排除三方应用攻击行为，自查漏洞分析攻击者思路，人工配合工具脚本
- 3.由于工具或脚本更新迭代快，分类复杂，打造自己的工具箱迫在眉睫

75.2 案例 1-Win 日志自动神器 LogonTracer-外网内网



- 1 如何安装使用：
<https://github.com/JPCERTCC/LogonTracer/wiki/>
- 2
- 3 **linux** 安装使用笔记：阿里云主机记得开放端口及关闭防火墙
- 4
- 5 1.下载并解压 neo4j: `tar -zxvf neo4j-community-4.2.1-unix.tar`
- 6
- 7 2.安装 java11 环境: `sudo yum install java-11-openjdk -y`
- 8
- 9 3.修改 neo4j 配置保证外部访问：
- 10 `dbms.connector.bolt.listen_address=0.0.0.0:7687`
- 11 `dbms.connector.http.listen_address=0.0.0.0:7474`

```

12
13 ./bin/neo4j console &
14
15 4.下载 LogonTracer 并安装库:
16 git clone
    https://github.com/JPCERTCC/LogonTracer.git
17 pip3 install -r requirements.txt
18
19 5.启动 LogonTracer 并导入日志文件分析
20 python3 logontracer.py -r -o [PORT] -u
    [USERNAME] -p [PASSWORD] -s [IP 地址]
21 python3 logontracer.py -r -o 8080 -u neo4j -p
    xiaodi -s 47.98.99.126
22 python3 logontracer.py -e [EVTX 文件] -z [时区] -u
    [用户名] -p [密码] -s [IP 地址]
23 python3 logontracer.py -e Security.evtx -z -13 -
    u neo4j -p xiaodi -s 127.0.0.1
24
25 6.刷新访问 LogonTracer-web_gui 查看分析结果

```

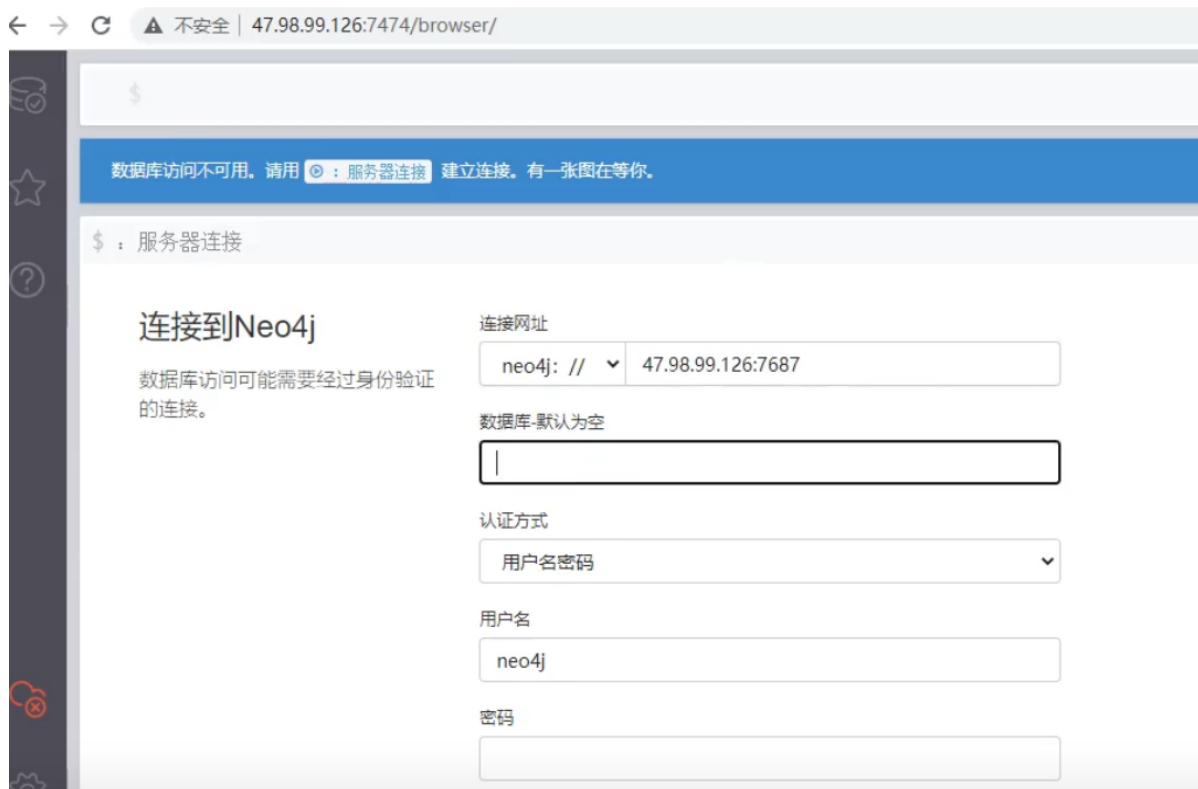
配置完neo4j后，启动即可

```

[root@izbp1bw2cdqum1zbyq8q2tZ neo4j-community-4.2.1]# ./bin/neo4j console &
[1] 83596
[root@izbp1bw2cdqum1zbyq8q2tZ neo4j-community-4.2.1]# Directories in use:
home:      /opt/neo4j-community-4.2.1
config:    /opt/neo4j-community-4.2.1/conf
logs:      /opt/neo4j-community-4.2.1/logs
plugins:   /opt/neo4j-community-4.2.1/plugins
import:    /opt/neo4j-community-4.2.1/import
data:      /opt/neo4j-community-4.2.1/data
certificates: /opt/neo4j-community-4.2.1/certificates
run:       /opt/neo4j-community-4.2.1/run
Starting Neo4j.
2020-12-13 12:22:32.208+0800 INFO Note that since you did not explicitly set the port in dbms.connector.bolt.advertised_address Neo4j automatically set it t
o 7687 to match dbms.connector.bolt.listen_address. This behavior may change in the future and we recommend you to explicitly set it.
2020-12-13 12:22:32.223+0800 INFO Starting...
2020-12-13 12:22:34.195+0800 INFO ===== Neo4j 4.2.1 =====
2020-12-13 12:22:35.153+0800 INFO Performing postInitialization step for component 'security-users' with version 2 and status CURRENT
2020-12-13 12:22:35.154+0800 INFO Updating the initial password in component 'security-users'
2020-12-13 12:22:35.328+0800 INFO Bolt enabled on 0.0.0.0:7687.
2020-12-13 12:22:36.253+0800 INFO Remote interface available at http://0.0.0.0:7474/
2020-12-13 12:22:36.254+0800 INFO Started.

```

启动后访问服务器7474端口即可，默认用户名密码是neo4j



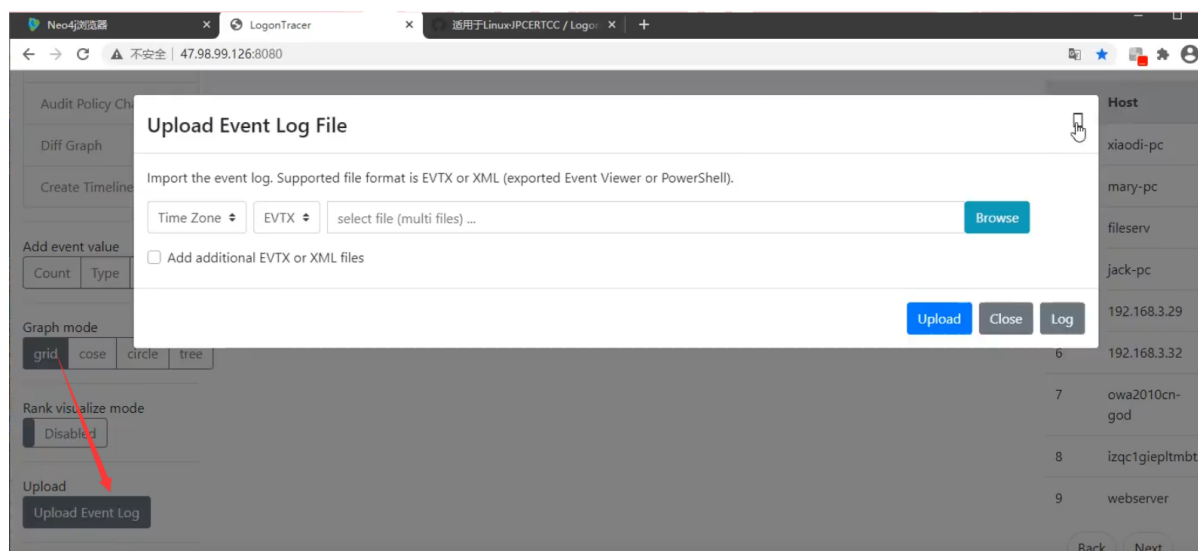
再在服务器上下载LogonTracer并安装

切换到LogonTracer的目录，通过python3启动LogonTracer

```
[root@izbp1bw2cdqum1zbyq8q2tZ opt]# cd LogonTracer/
[root@izbp1bw2cdqum1zbyq8q2tZ LogonTracer]# python3 logontracer.py -r -o 8080 -u neo4j -p xiaodi -s 47.98.99.126
[+] Script start. 2020/12/13 20:24:33
[+] Neo4j Kernel version: 4.2.1
* Serving Flask app "logontracer" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on http://0.0.0.0:8080/ (Press CTRL+C to quit)
```

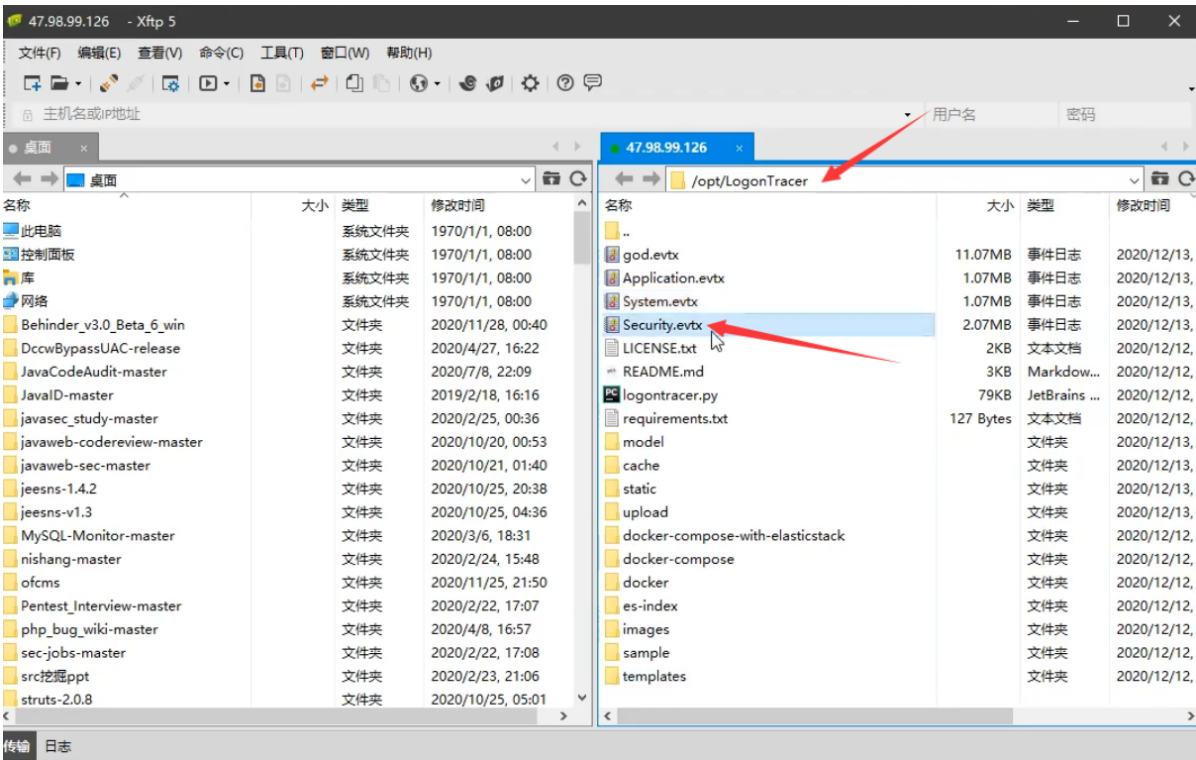
启动后访问服务器的8080端口

可以在图形化界面将日志上传进行分析



也可以通过命令行上传日志文件进行分析

将日志文件上传到服务器的LogonTracer的目录

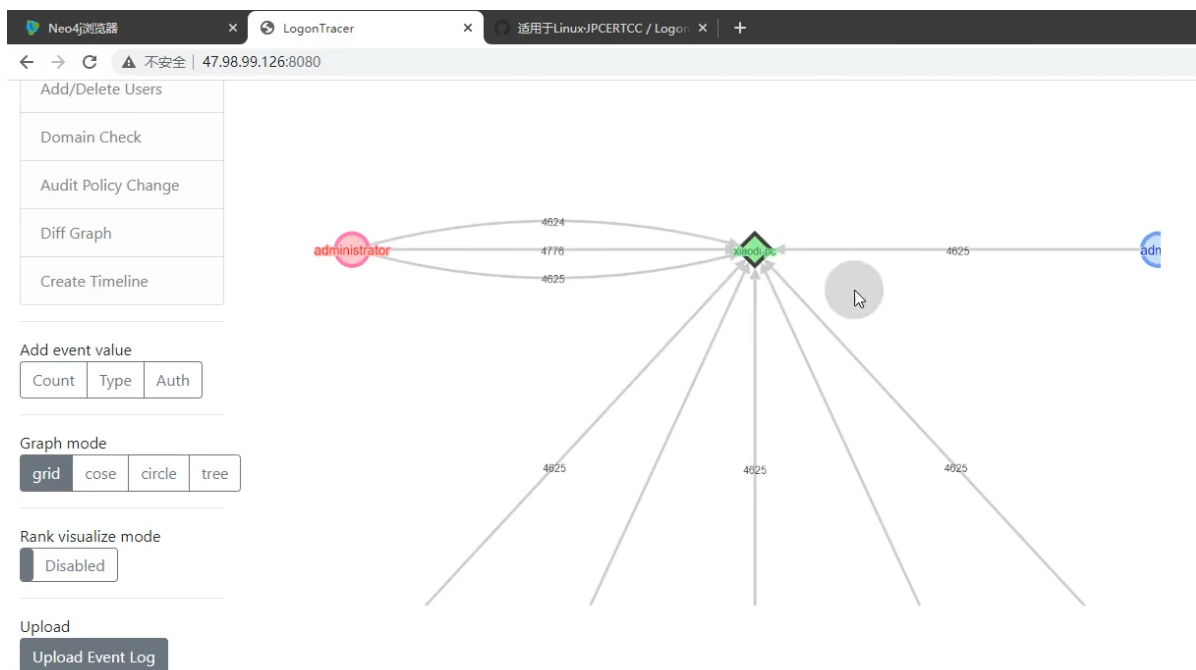


通过python3运行脚本，将日志导入进行分析

```
root@iZbp1bw2cdqum1zbyq8q2tZ LogonTracer]# python3 logontracer.py -e Security.evtx -z -13 -u neo4j -p xiaodi -s 127.0.0.1
[+] Script start. 2020/12/13 20:28:04
[+] Neo4j Kernel version: 4.2.1
[+] Time zone is -13.
[+] Last record number is 2329.
[+] Start parsing the EVTX file.
[+] Parse the EVTX file Security.evtx.
[+] Now loading 2300 records.
[+] Load finished.
[+] Total Event log is 2329.
[+] Filtered Event log is 774.
[+] Create cache files.
[+] Calculate ChangeFinder.
[+] Calculate Hidden Markov Model.
[+] Calculate PageRank.
[+] Creating a graph data.
[+] Creation of a graph data finished.
[+] Script end. 2020/12/13 20:28:14
root@iZbp1bw2cdqum1zbyq8q2tZ LogonTracer]#
```

执行后访问服务器的8080端口

LogonTracer会将日志进行分析并以导图的形式展现出来



75.3 案例 2-数据库 Mysql&Mssql&Oracle 等日志分析-爆破注入操作

常见的数据库攻击包括弱口令、SQL 注入、提升权限、窃取备份等。对数据库日志进行分析，可以发现攻击行为，进一步还原攻击场景及追溯攻击源。

- 1 Mysql: 启用，记录，分析（分析 SQL 注入及口令登录爆破等）
- 2 `show variables like '%general%';`
- 3 `SET GLOBAL general_log = 'On';`
- 4 `SET GLOBAL general_log_file =
'/var/lib/mysql/mysql.log';`

`show variables like '%general%';` 查看数据库状态，数据库配置文件路径

```
mysql> show variables like '%general%';
```

Variable_name	Value
general_log	OFF
general_log_file	D:\phpstudy\PHPTutorial\MySQL\data\XIAODI-PC.log

```
2 rows in set (0.00 sec)
```

GLOBAL general_log = 'On'; 开启数据日志

```
mysql> SET GLOBAL general_log = 'On';  
Query OK, 0 rows affected (0.10 sec)
```



- 1 Mssql: 查看, 跟踪, 分析 (配置跟踪可分析操作, 查看日志可分析登录等)

75.4 案例 3-自查漏洞模拟渗透测试寻找攻击源头-漏洞口令检索



- 1 1.日志被删除或没价值信息
- 2 2.没有思路进行分析可以采用模拟渗透
- 3 1.windows, linux 系统漏洞自查:
- 4 windowsVulnScan, linux-exploit-suggester
- 5 D:\Myproject\venv\Scripts\python.exe cve-check.py -C -f KB.json
- 6 ./linux-exploit-suggester.sh
- 7 2.windows, linux 服务漏洞自查:
- 8 windows: Get-WmiObject -class win32_Product
- 9 linux: LinEnum.sh
- 10 searchsploit weblogic
- 11 利用前期信息收集配合 searchsploit 进行应用服务协议等漏洞检索
- 12 3.windows, linux 协议弱口令自查-工具探针或人工获取判断-snetcraker

75.5 案例 4-自动化 ir-rescue 应急响应工具箱-实时为您提供服务



- 1 <https://github.com/diogo-fernan/ir-rescue>
- 2 分析脚本工具原理，尝试自己进行编写修改，成为自己的工具箱杀器

资源：



- 1 <https://github.com/rebootuser/LinEnum>
- 2 <https://github.com/diogo-fernan/ir-rescue>
- 3 <https://github.com/offensive-security/exploitdb>
- 4 <https://github.com/chroblert/windowsVulnScan>
- 5 <https://github.com/JPCERTCC/LogonTracer.git>
- 6 <https://github.com/mzet-/linux-exploit-suggester>
- 7 <https://pan.baidu.com/s/1tQS1mUe1mEh3I68AL7yXGg> 提
取码：xiao