




windows溯源取证,应急响应案例:tryhackme之 Investigating Windows

原创

唐仔橙  已于 2022-04-13 20:25:30 修改  2255  收藏

分类专栏: [web安全](#) [网络安全入门](#) [tryhackme](#) 文章标签: [安全](#) [web安全](#) [网络安全](#)

于 2022-04-13 19:40:15 首次发布

版权声明: 本文为博主原创文章, 遵循 [CC 4.0 BY-SA](#) 版权协议, 转载请附上原文出处链接和本声明。

本文链接: https://blog.csdn.net/qq_43200143/article/details/124155768

版权



[web安全](#) 同时被 3 个专栏收录

11 篇文章 1 订阅

订阅专栏



[网络安全入门](#)

11 篇文章 0 订阅

订阅专栏



[tryhackme](#)

12 篇文章 1 订阅

订阅专栏

文章目录

Investigating Windows

Whats the version and year of the windows machine?

Which user logged in last?

When did John log onto the system last?

What IP does the system connect to when it first starts?

What two accounts had administrative privileges (other than the Administrator user)?

Whats the name of the scheduled task that is malicious.

What file was the task trying to run daily?

What port did this file listen locally for?

When did Jenny last logon?

At what date did the compromise take place?

At what time did Windows first assign special privileges to a new logon?

What tool was used to get Windows passwords?

What was the attackers external control and command servers IP?

What was the extension name of the shell uploaded via the servers website?

What was the last port the attacker opened?

Check for DNS poisoning, what site was targeted?

参考文章

Investigating Windows

tryhackme的一个房间,一个windows应急响应案例.


我们登陆到一台被入侵的windows机器,要对他进行溯源取证.

Whats the version and year of the windows machine?

systeminfo

```
C:\Users\Administrator>systeminfo

Host Name:                EC2AMAZ-I8UH076
OS Name:                   Microsoft Windows Server 2016 Datacenter
OS Version:                10.0.14393 N/A Build 14393
OS Manufacturer:         Microsoft Corporation
OS Configuration:        Standalone Server
OS Build Type:             Multiprocessor Free
Registered Owner:         EC2
Registered Organization:   Amazon.com
Product ID:                 00376-40000-00000-AA753
Original Install Date:     3/2/2019, 4:06:35 PM
System Boot Time:          4/10/2022, 2:02:25 AM
System Manufacturer:       Amazon EC2
System Model:               t3.small
System Type:                x64-based PC
Processor(s):               1 Processor(s) Installed.
                           [01]: Intel64 Family 6 Model 85 Stepping 7 GenuineIntel ~250
BIOS Version:              Amazon EC2 1.0, 10/16/2017
Windows Directory:         C:\Windows
System Directory:          C:\Windows\system32
Boot Device:                \Device\HarddiskVolume1
System Locale:              en-us:English (United States)
```



CSDN @唐仔橙

Which user logged in last?

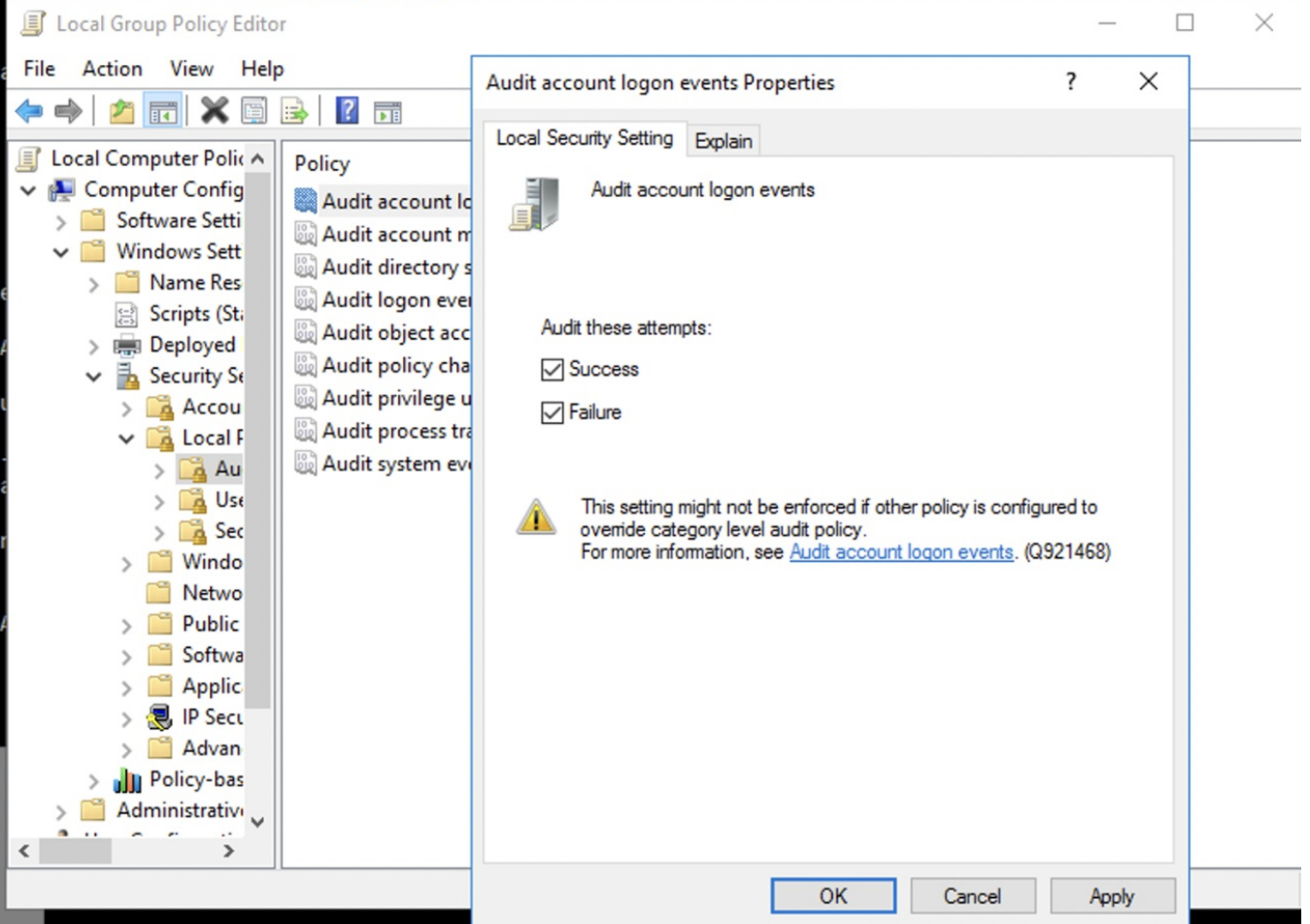
查找用户登陆记录

1.运行,输入: gpedit.msc

2.“计算机配置”→“Windows设置”→“安全设置”→“本地策略”→“审核策略”，双击其中的“审核帐户登陆事件”

==>审核登录事件->勾选成功/失败->点击应用->点击确定

3.控制面板->系统和安全->查看事件日志->事件查看器->windows日志->安全，便可以看到用户的登录和注销以及账户名等信息



Event Viewer

File Action View Help

Event Viewer (Local)

- Custom Views
- Windows Logs
 - Application
 - Security
 - Setup
 - System
 - Forwarded Events
- Applications and Services Logs
- Subscriptions

Security Number of events: 2,132 (1) New events available

| Date and Time | Source | Event ID | Task Category |
|----------------------|---------------------------|----------|---------------------------|
| 4/10/2022 2:04:01 AM | Microsoft Windows secu... | 4799 | Security Group Management |
| 4/10/2022 2:04:00 AM | Microsoft Windows secu... | 4672 | Special Logon |
| 4/10/2022 2:04:00 AM | Microsoft Windows secu... | 4624 | Logon |
| 4/10/2022 2:04:00 AM | Microsoft Windows secu... | 4648 | Logon |
| 4/10/2022 2:04:00 AM | Microsoft Windows secu... | 4776 | Credential Validation |
| 4/10/2022 2:04:00 AM | Microsoft Windows secu... | 4798 | User Account Management |
| 4/10/2022 2:04:00 AM | Microsoft Windows secu... | 4798 | User Account Management |
| 4/10/2022 2:04:00 AM | Microsoft Windows secu... | 4798 | User Account Management |

Event 4624, Microsoft Windows security auditing.

General Details

An account was successfully logged on.

Subject:

- Security ID: SYSTEM
- Account Name: EC2AMAZ-I8UHO76S
- Account Domain: WORKGROUP
- Logon ID: 0x3E7

Logon Information:

- Logon Type: 10
- Restricted Admin Mode: No
- Virtual Account: No
- Elevated Token: Yes

Impersonation Level: Impersonation

New Logons:

- Security ID: EC2AMAZ-I8UHO76\Administrator
- Account Name: Administrator
- Account Domain: EC2AMAZ-I8UHO76
- Logon ID: 0x731D

Log Name: Security

Source: Microsoft Windows security

Event ID: 4624

Level: Information

User: N/A

OpCode: Info

More Information: [Event Log Online Help](#)

Logged: 4/10/2022 2:04:00 AM

Task Category: Logon

Keywords: Audit Success

Computer: EC2AMAZ-I8UHO76

CSDN @唐仔程

When did John log onto the system last?

net user John 可以查看这个用户的信息

```
C:\Users\Administrator>net user John
User name                John
Full Name                John
Comment
User's comment
Country/region code      000 (System Default)
Account active            Yes
Account expires           Never

Password last set        3/2/2019 5:48:19 PM
Password expires         Never
Password changeable      3/2/2019 5:48:19 PM
Password required        Yes
User may change password Yes

Workstations allowed     All
Logon script
User profile
Home directory
Last logon                3/2/2019 5:48:32 PM

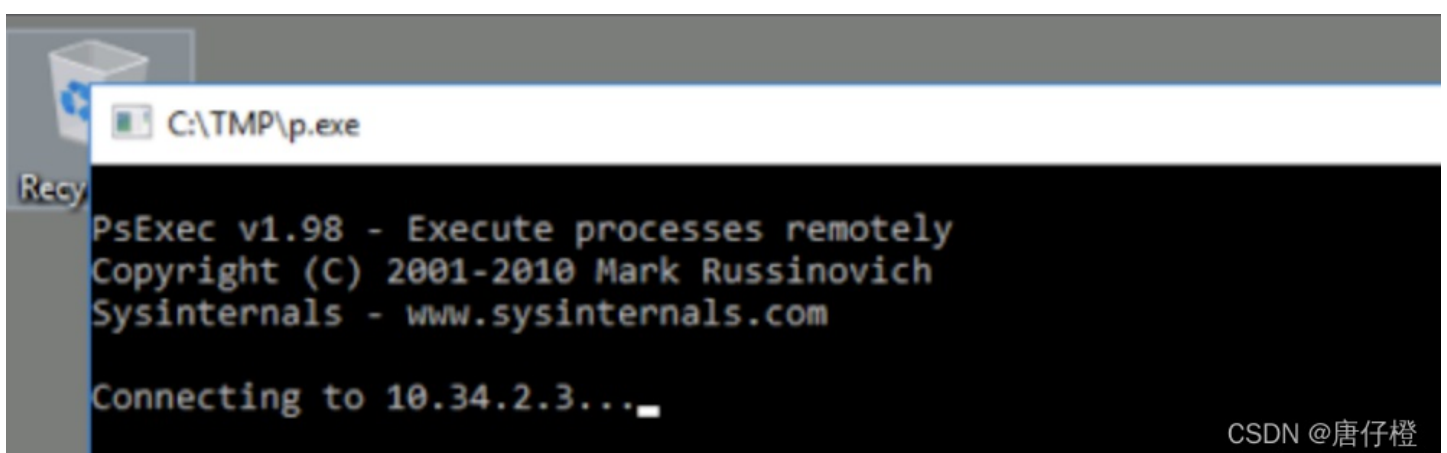
Logon hours allowed      All

Local Group Memberships  *Users
Global Group memberships *None
The command completed successfully.
```

CSDN @唐仔橙

What IP does the system connect to when it first starts?

这个容易忽略了,刚开始开机的时候有个窗口,不要轻易关掉



CSDN @唐仔橙

What two accounts had administrative privileges (other than the Administrator user)?

Jenny,Guest

```
C:\Users\Administrator>net user Jenny
User name                Jenny
Full Name                Jenny
Comment
User's comment
Country/region code     000 (System Default)
Account active          Yes
Account expires         Never

Password last set       3/2/2019 4:52:25 PM
Password expires        Never
Password changeable     3/2/2019 4:52:25 PM
Password required       Yes
User may change password Yes

Workstations allowed    All
Logon script
User profile
Home directory
Last logon              Never

Logon hours allowed     All

Local Group Memberships *Administrators        *Users
Global Group memberships *None
The command completed successfully.
```

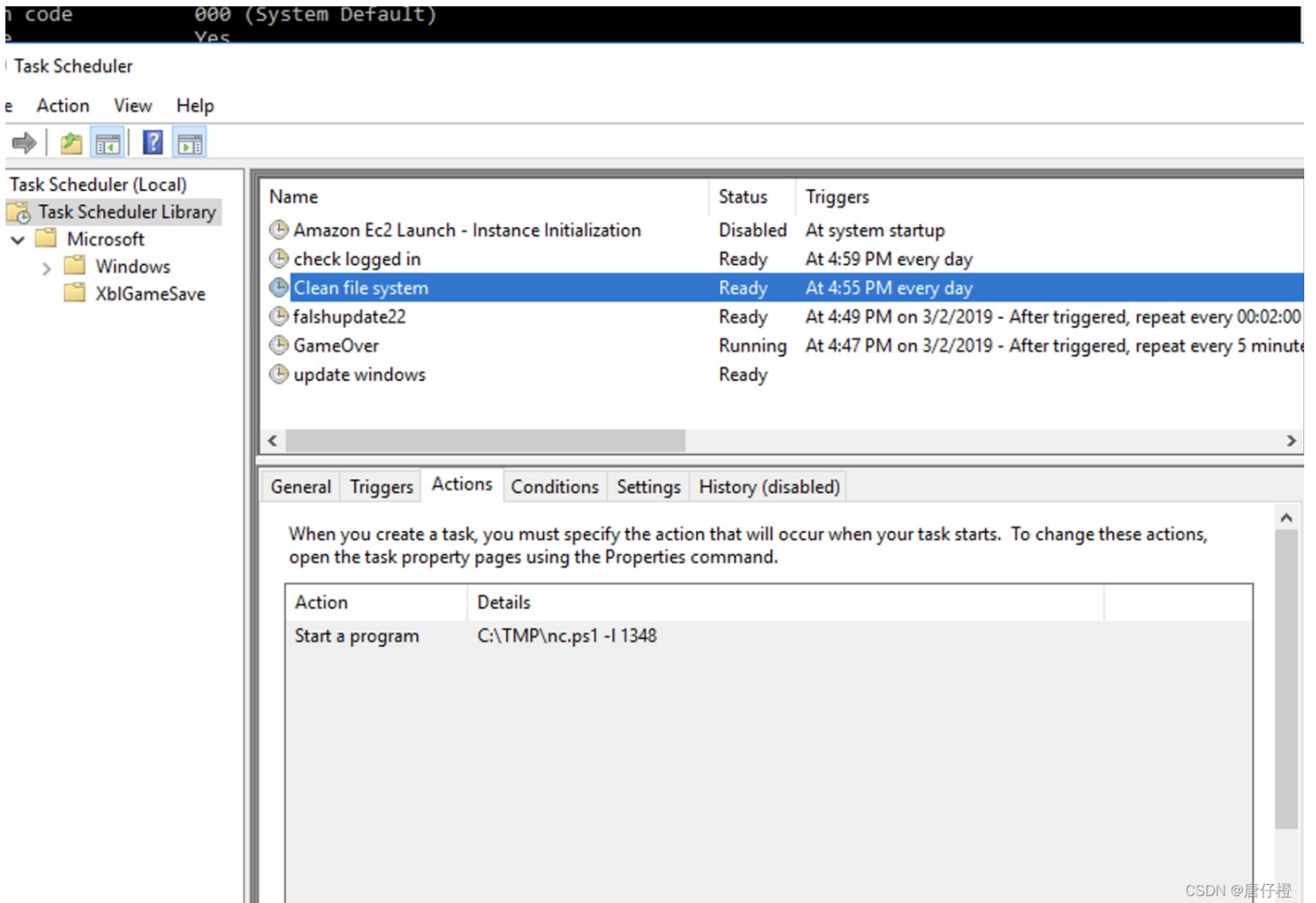


CSDN @唐仔橙

Whats the name of the scheduled task that is malicious.

查看计划任务

命令行:taskschd.msc



What file was the task trying to run daily?

nc.ps1

What port did this file listen locally for?

1348 -l参数就是指定本地监听端口

When did Jenny last logon?

net user Jenny查看

At what date did the compromise take place?

什么时候被入侵的...这个怎么看呀,要看通过什么漏洞打进来的?

根据账号Jenny的创建时间 还有呢?

At what time did Windows first assign special privileges to a new logon?

这个意思是什么时候给普通用户 管理员权限的,这个应该可以看日志吧.

Event 4738, Microsoft Windows security auditing.

General Details

Home Drive: <value not set>
Script Path: <value not set>
Profile Path: <value not set>
User Workstations: <value not set>
Password Last Set: <never>
Account Expires: <never>
Primary Group ID: 513
AllowedToDelegateTo: -
Old UAC Value: 0x215
New UAC Value: 0x215
User Account Control: -
User Parameters: <value not set>
SID History: -
Logon Hours: All

Additional Information:
Privileges: -

CSDN @唐仔橙

- Custom Views
- Windows Logs
 - Application
 - Security
 - Setup
 - System
 - Forwarded Events
- Applications and Services Logs
- Subscriptions

| Keywords | Date and Time | Source | Event ID | Task Category |
|---------------|---------------------|---------------------------|----------|---------------------------|
| Audit Success | 3/2/2019 4:04:47 PM | Microsoft Windows secu... | 4781 | User Account Management |
| Audit Success | 3/2/2019 4:04:47 PM | Microsoft Windows secu... | 4737 | Security Group Management |
| Audit Success | 3/2/2019 4:04:47 PM | Microsoft Windows secu... | 4738 | User Account Management |
| Audit Success | 3/2/2019 4:04:47 PM | Microsoft Windows secu... | 4738 | User Account Management |
| Audit Success | 3/2/2019 4:04:47 PM | Microsoft Windows secu... | 4738 | User Account Management |
| Audit Success | 3/2/2019 4:04:47 PM | Microsoft Windows secu... | 4738 | User Account Management |
| Audit Success | 3/2/2019 4:04:47 PM | Microsoft Windows secu... | 4738 | User Account Management |
| Audit Success | 3/2/2019 4:04:47 PM | Microsoft Windows secu... | 4738 | User Account Management |
| Audit Success | 3/2/2019 4:04:47 PM | Microsoft Windows secu... | 4738 | User Account Management |

Event 4738, Microsoft Windows security auditing.

General Details

A user account was changed.


Subject:
Security ID: SYSTEM
Account Name: EC2AMAZ-18UHO76S
Account Domain: WORKGROUP
Logon ID: 0x3E7

Target Account:
Security ID: EC2AMAZ-18UHO76\Guest
Account Name: Guest
Account Domain: EC2AMAZ-18UHO76

Changed Attributes:
SAM Account Name: Guest
Display Name: <value not set>
User Principal Name: -

Log Name: Security
Source: Microsoft Windows security
Event ID: 4738
Level: Information
User: N/A
OpCode: Info
More Information: [Event Log Online Help](#)

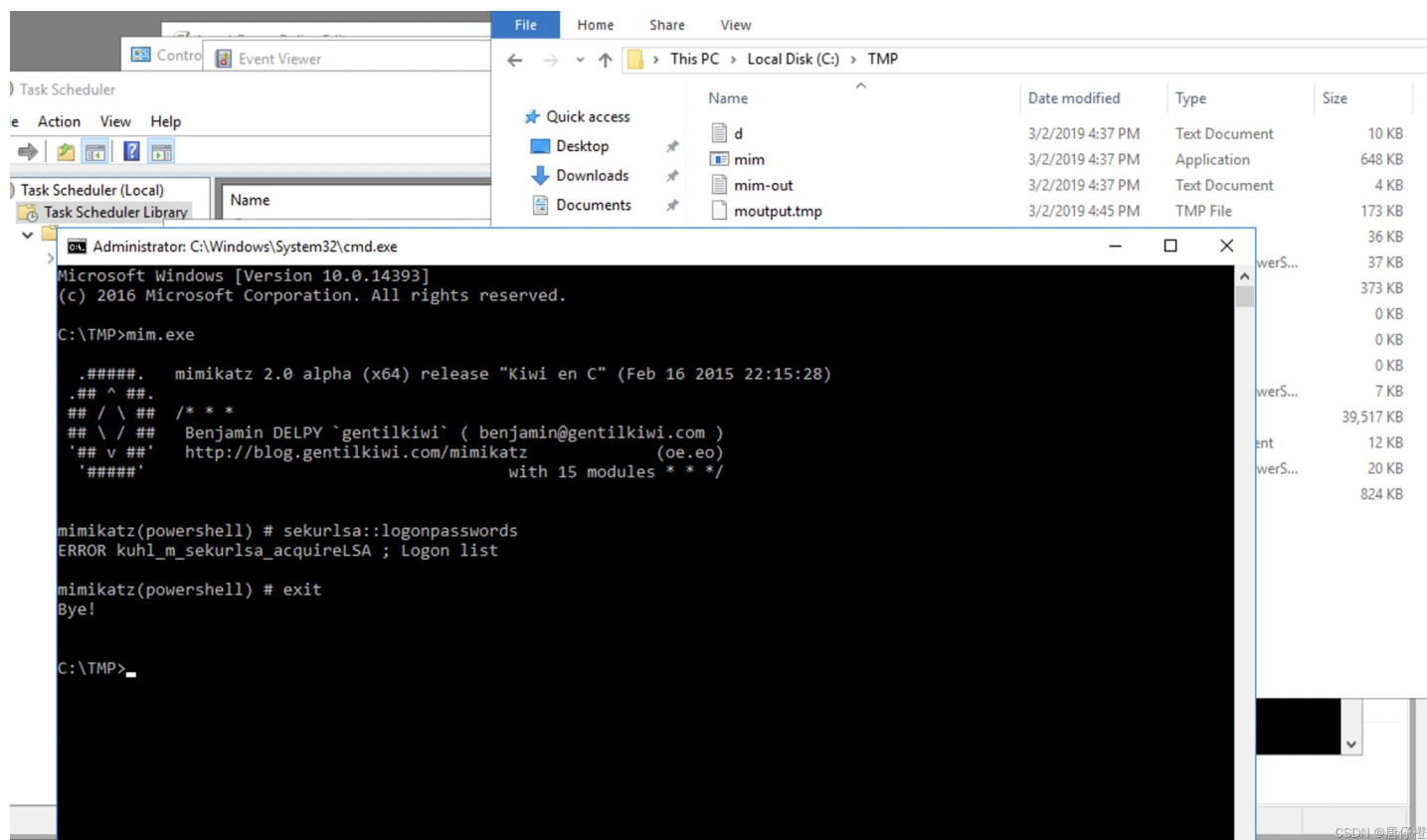
Logged: 3/2/2019 4:04:47 PM
Task Category: User Account Management
Keywords: Audit Success
Computer: EC2AMAZ-18UHO76



CSDN @唐仔橙

What tool was used to get Windows passwords?

在攻击者留下的目录中寻找



What was the attackers external control and command servers IP?


找攻击者的c2ip地址

C:\Windows\System32\drivers\etc\hosts

将google的ip替换成了攻击者自己的

```
hosts - Notepad
File Edit Format View Help
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#      102.54.94.97      rhino.acme.com      # source server
#      38.25.63.10     x.acme.com          # x client host

# localhost name resolution is handled within DNS itself.
#      127.0.0.1       localhost
#      ::1             localhost|
10.2.2.2      update.microsoft.com
127.0.0.1    www.virustotal.com
127.0.0.1    www.www.com
127.0.0.1    dci.sophosupd.com
10.2.2.2     update.microsoft.com
127.0.0.1    www.virustotal.com
127.0.0.1    www.www.com
127.0.0.1    dci.sophosupd.com
10.2.2.2     update.microsoft.com
127.0.0.1    www.virustotal.com
127.0.0.1    www.www.com
127.0.0.1    dci.sophosupd.com
76.32.97.132 google.com
76.32.97.132 www.google.com
```

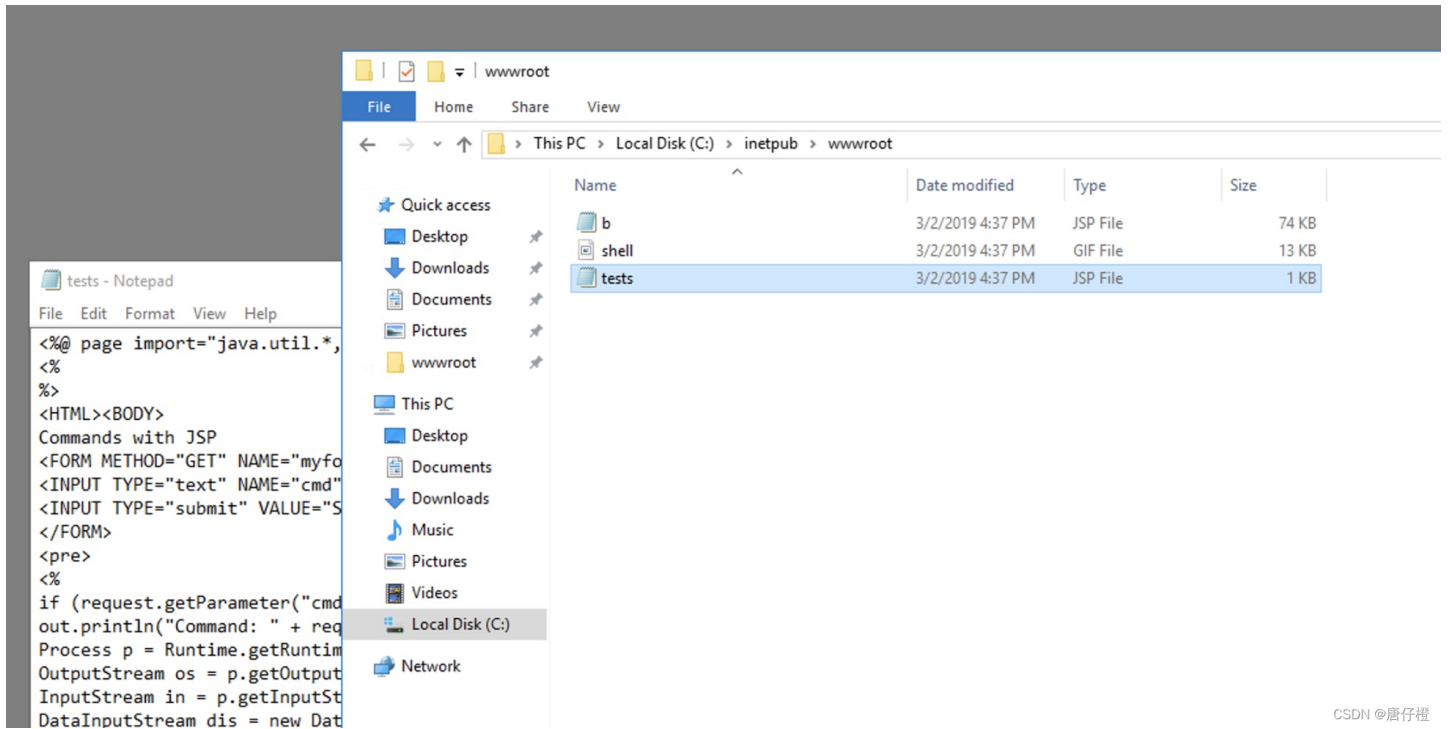


CSDN @唐仔橙

What was the extension name of the shell uploaded via the servers website?

上传的webshell的后缀名.

找到web目录就会发现

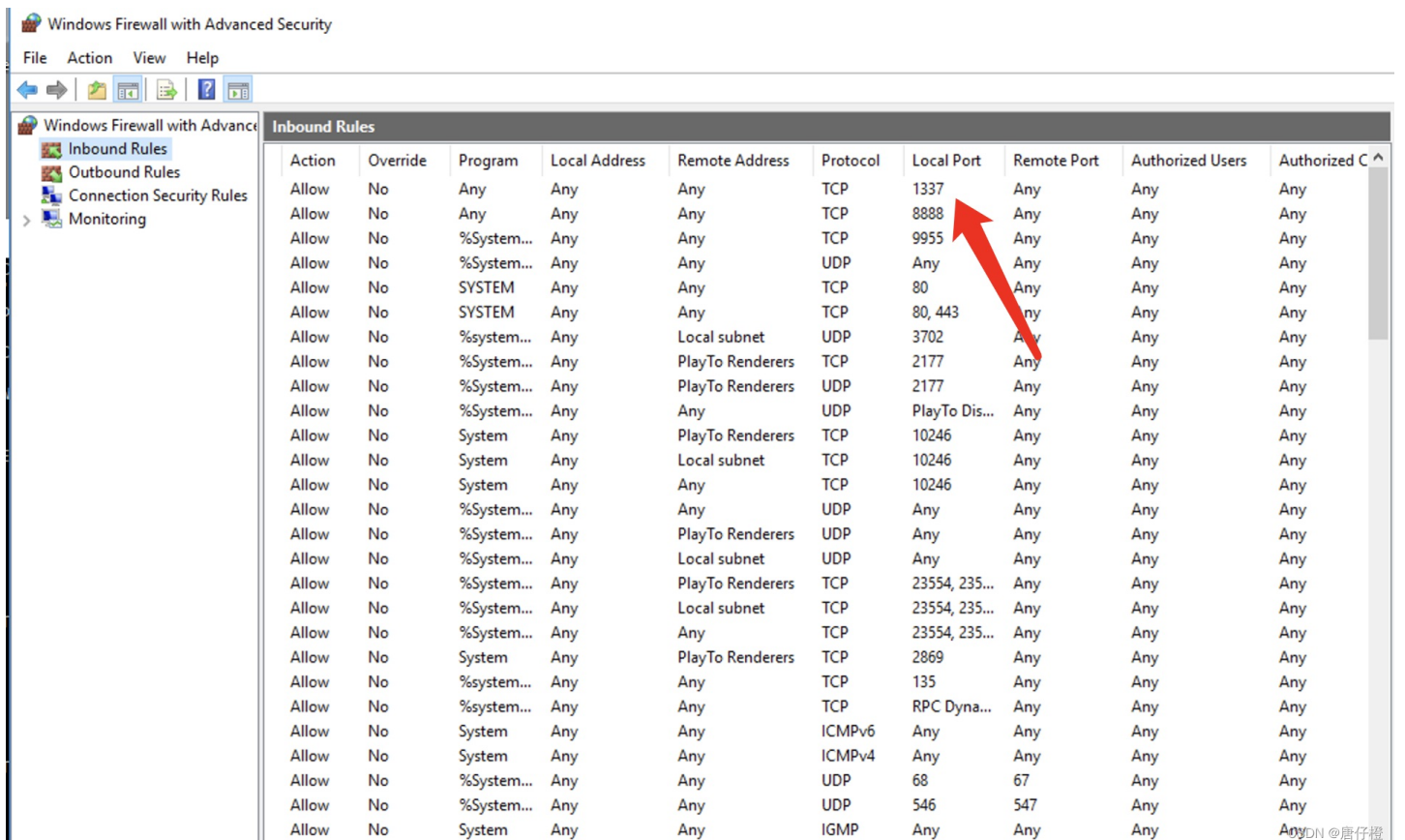


CSDN @唐仔橙

What was the last port the attacker opened?

查看最后开放的端口

防火墙里可以查看开放的端口,默认按照时间排序吗??



CSDN @唐仔橙

Check for DNS poisoning, what site was targeted?

hosts文件中,google.com被替换了

参考文章

<https://blog.csdn.net/CSNDRYL/article/details/77194060>

<https://shamsher-khan-404.medium.com/investigating-windows-tryhackme-writeup-65d0ceeaca90>



[创作打卡挑战赛](#) >

[赢取流量/现金/CSDN周边激励大奖](#)