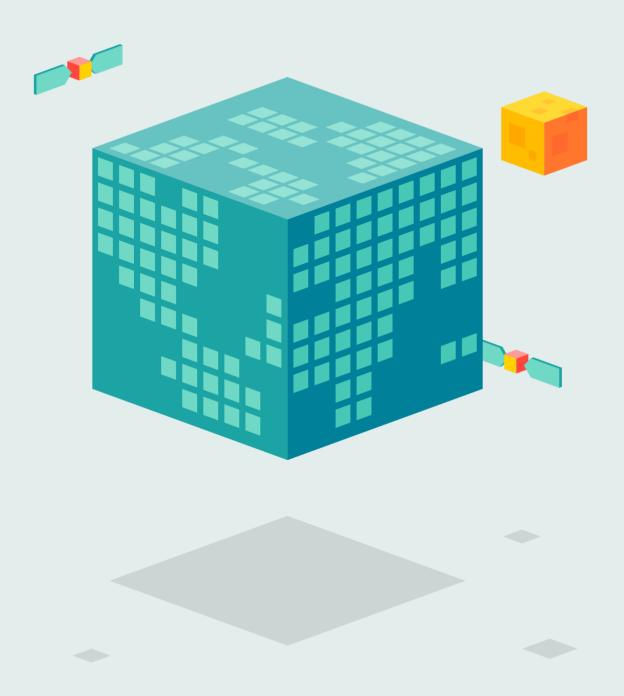
# ATTACKING WORDPRESS

**LOOKING BACK** 

#### **Presentator**

Eddie Bijnen Security Engineer





### Security engineer; ?!!

→ Penetratie testen

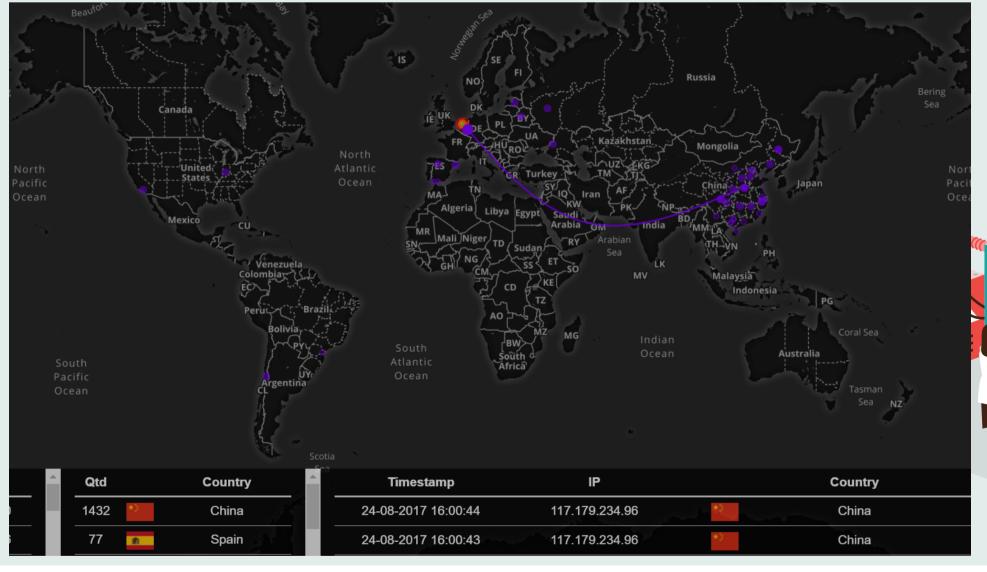
→ Ontwikkelen van security oplossingen

→ Opsporen van hacks

→ Abuse meldingen



### My website isn't that interesting





### My website isn't that interesting

→ DDoS

→ Cryptocoin-mining

→ Spam

→ Randsom



### Admin Panel Available

→ <a href="https://www.my-website.nl">https://www.my-website.nl</a>
/wp-login.php

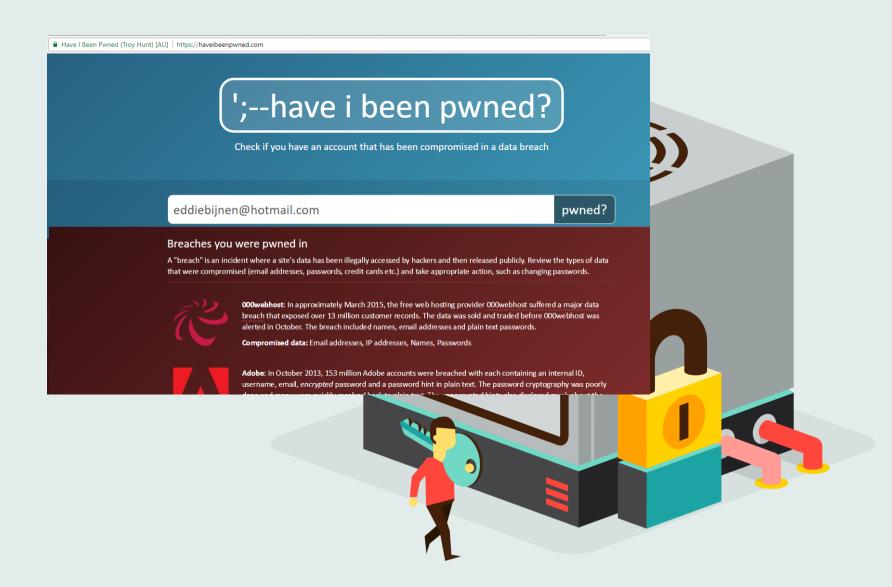
→ Unlimited login attempts

→ Lack of HTTPS



#### Password Reuse

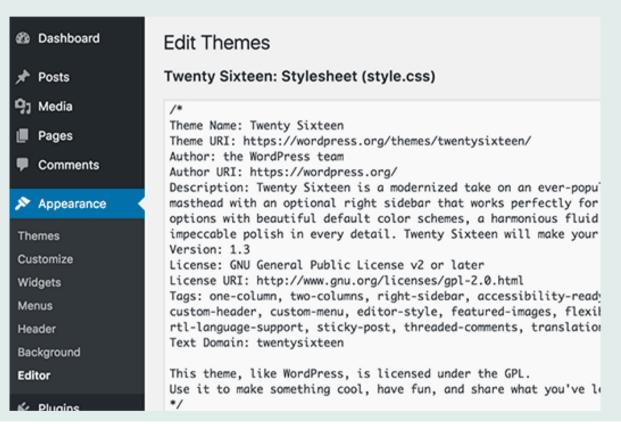
- → Myspace
- → Linked-In
- → Adobe
- → Dropbox
- → 220+ andere websites





#### Am In Now What?

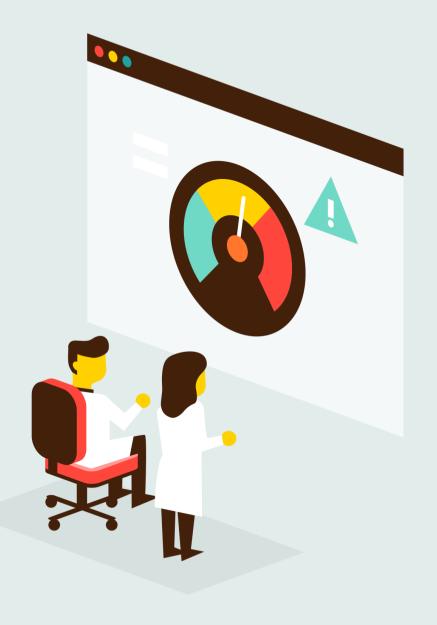
→ A valid admin is by default allowed to change files on disk.





### Backdoor in pirated software





ATTACKING WORDPRESS

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I know what you didn't do last summer

```
URL: http://192.168.1.209/
Started: Tue Aug 22 14:42:53 2017
The WordPress 'http://192.168.1.209/readme.html' file exists exposing a version number
Interesting header: LINK: <http://192.168.1.209/wp-json/>; rel="https://api.w.org/"
Interesting header: SERVER: Apache/2.4.7 (Ubuntu)
Interesting header: X-POWERED-BY: PHP/5.5.9-lubuntu4.21
XML-RPC Interface available under: http://192.168.1.209/xmlrpc.php
Includes directory has directory listing enabled: http://l92.168.1.209/wp-includes/
WordPress version 4.6 (Released on 2016-08-16) identified from advanced fingerprinting, meta generator, readme, links
22 vulnerabilities identified from the version number
Title: WordPress 2.5-4.6 - Authenticated Stored Cross-Site Scripting via Image Filename
Reference: https://wpvulndb.com/vulnerabilities/8615
Reference: https://wordpress.org/news/2016/09/wordpress-4-6-1-security-and-maintenance-release/
Reference: https://github.com/WordPress/WordPress/commit/c9e60dab176635d4bfaaf431c0ea891e4726d6e0
Reference: https://sumofpwn.nl/advisory/2016/persistent cross site scripting vulnerability in wordpress due to unsafe
Reference: http://seclists.org/fulldisclosure/2016/Sep/6
Reference: https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-7168
Fixed in: 4.6.1
Title: WordPress 2.8-4.6 - Path Traversal in Upgrade Package Uploader
Reference: https://wpvulndb.com/vulnerabilities/8616
Reference: https://wordpress.org/news/2016/09/wordpress-4-6-1-security-and-maintenance-release/
Reference: https://github.com/WordPress/WordPress/commit/54720a14d85bc1197ded7cb09bd3ea790caa0b6e
Reference: https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-7169
Fixed in: 4.6.1
Title: WordPress 4.3-4.7 - Remote Code Execution (RCE) in PHPMailer
Reference: https://wpvulndb.com/vulnerabilities/8714
Reference: https://www.wordfence.com/blog/2016/12/phpmailer-vulnerability/
Reference: https://github.com/PHPMailer/PHPMailer/wiki/About-the-CVE-2016-10033-and-CVE-2016-10045-vulnerabilities
Reference: https://wordpress.org/news/2017/01/wordpress-4-7-1-security-and-maintenance-release/
Reference: https://qithub.com/WordPress/WordPress/commit/24767c76d359231642b0ab48437b64e8c6c7f491
Reference: http://legalhackers.com/advisories/PHPMailer-Exploit-Remote-Code-Exec-CVE-2016-10033-Vuln.html
Reference: https://www.rapid7.com/db/modules/exploit/unix/webapp/wp_phpmailer host header
Fixed in: 4.7.1
```



ATTACKING WORDPRESS

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## Vulnerable Plugins

Date 🗆	D	Α	٧	Title	Platform
2017-08-07	•		V	WordPress Plugin Easy Modal 2.0.17 - SQL Injection	PHP
2017-07-20	•	-	0	WordPress Plugin IBPS Online Exam 1.0 - SQL Injection / Cross-Site Scripting	PHP
2017-07-03	•	-	0	WordPress Plugin WatuPRO 5.5.1 - SQL Injection	PHP
2017-06-27	•		0	WordPress Plugin Ultimate Product Catalogue 4.2.2 - SQL Injection	PHP
2017-06-11	•		0	WordPress Plugin WP Jobs < 1.5 - SQL Injection	PHP
2017-06-06	•		V	WordPress Plugin Tribulant Newsletters 4.6.4.2 - File Disclosure / Cross-Site Scripting	PHP
2017-06-04	•	-	0	WordPress Plugin Event List <= 0.7.8 - SQL Injection	PHP
2017-06-03	•	-	0	WordPress Plugin WP-Testimonials < 3.4.1 - SQL Injection	PHP
2017-05-29	•		0	WordPress Plugin Huge-IT Video Gallery 2.0.4 - SQL Injection	PHP
2017-05-17	•	-	V	WordPress PHPMailer 4.6 - Host Header Command Injection (Metasploit)	PHP
2017-05-05	•	-	0	WordPress Plugin WebDorado Gallery 1.3.29 - SQL Injection	PHP
2017-05-03	•		0	WordPress 4.6 - Unauthenticated Remote Code Execution	Linux
2017-05-03	•		0	WordPress < 4.7.4 - Unauthorized Password Reset	Linux
2017-04-25	•	-	0	WordPress Plugin Wow Viral Signups 2.1 - SQL Injection	PHP
2017-04-25	•	-	0	WordPress Plugin Wow Forms 2.1 - SQL Injection	PHP
2017-04-25	•		0	WordPress Plugin KittyCatfish 2.2 - SQL Injection	PHP
2017-04-25	•	-	0	WordPress Plugin Car Rental System 2.5 - SQL Injection	PHP



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#### What are the risks

- → "Meldplicht" and possible fine from the Dutch Autoriteit persoonsgegevens
- → Brand reputation
- → Additional data cost
- → Blacklisting of domains



#### Homework & Questions

- → <a href="https://haveibeenpwned.com/">https://haveibeenpwned.com/</a>
- → <a href="https://premium.wpmudev.org/wp-checkup/">https://premium.wpmudev.org/wp-checkup/</a>
- → <a href="https://premium.wpmudev.org/blog/ultimate-wordpress-security-checklist/">https://premium.wpmudev.org/blog/ultimate-wordpress-security-checklist/</a>