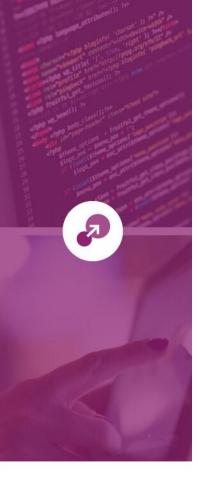


# Securing Your WordPress Website

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## Why?

# Confidentiality Integrity Availability

## Why?

#### Why does a hacker bother with me?

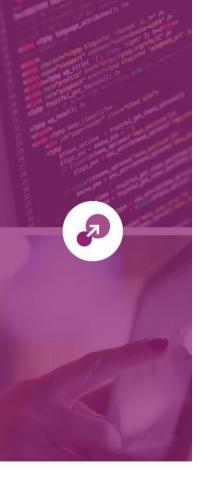
ALL Websites are attacked - \$\$\$\$\$

- Traffic/Pharma/Affiliate
- Blackhat SEO Link Injection
- Hacktivism Defacements
- Drive-by Downloads
- Malicious Redirects
- Hidden Pages
- Email Spam





# Leaked Passwords Software Vulnerabilities Hosting



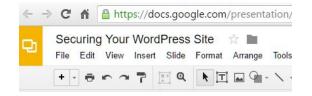
- Leaked Passwords
  - Public Wifi
  - Social Engineering
  - Sending them in the clear
- Software Vulnerabilities
  - Plugins even the inactive
  - Themes yes, even the inactive
  - WordPress Core
- Hosting





#### SSL

- Who works from a coffee shop?
- Get a certificate
  - LetsEncrypt <u>https://letsencrypt.org/</u>
  - From your hosting provider
  - SSLs.com
- Enforce HTTPS in WordPress wp-config.php
  - define('FORCE\_SSL\_ADMIN', true);
- Use a VPN
- Also avoid shared or public computers







Use Secure Passwords!

- Don't email or text passwords and userid's or other unsecure messaging apps
- At least 12 characters long length is important....
- Different passwords everywhere
  - Get a password manager

Also - Limit WordPress admins, give only necessary permissions for the time needed

Don't use the userid "admin"



#### Use Captcha

WP Login reCAPTCHA

Login No Captcha reCAPTCHA

https://www.google.com/recaptcha





Software Vulnerabilities

- UPDATE, UPDATE, UPDATE
- Don't use pirated software or suspicious "free" themes
- Limit your exposure by reducing plugins
  - Not all plugins are written by security experts....
- Remove all inactive plugins and themes
- define('DISALLOW\_FILE\_EDIT', true); wp-config.php
- Move /wp-config.php WordPress will find it
- Don't use the default database prefix wp\_
- Don't share database among multiple sites



#### Hosting

- Shared hosting has more exposure
  - Cross Contamination Especially if you are a developer and keep multiple projects in the same shared space with no isolation
- VPS offers additional isolation from other sites but is not necessarily more secure in other ways
- Most major hosting companies provide good security and updated environments because it's ultimately cheaper for them, but....
  - Look up their environment, latest PHP, Linux, etc.
  - Security or status blog, good support
  - Can you use an Letsencrypt SSL cert or cert you provide
  - Do they offer WordPress specific hosting?
  - Consider SSH, not basic ftp, don't share folders on website

#### DO YOU HAVE A BACKUP??

- BackupBuddy
- Store off-site copies, Pull and Push
- Backup as often as your data changes and you can afford to reconstruct it
- Automatic scheduled

Monitoring - Scanning

- · WPScan
- Google Search Console
- Jetpack Protect
- · Sucuri scanner plugin (free)



#### Defense

- VaultPress Subscription Service
- Wordfence
- iThemes Security
- All in One WP Security
- Google Authenticator
- Clef Two-Factor Authentication
- BulletProof Security Firewall

DON'T install all of them!



**Remediation - Cleanup** 

- Wipe the environment CLEAN including new database
- Restore your backup
- Don't have a backup... review every file
  - Replace everything you can with new copies
- Change all of your passwords and salts again
- Eli Anti-Malware Security and Brute-Force Firewall
- Sucuri professional services
- Check Cron Jobs

