Securing Your WordPress Website

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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
- Resources Bandwidth Storage





Leaked Passwords Software Vulnerabilities Hosting

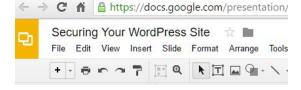




- Leaked Passwords
 - Public Wifi
 - Social Engineering
 - Sending them in the clear
- Software Vulnerabilities
 - Plugins even the inactive
 - Themes yes, even the inactive
 - WordPress Core
- Hosting







- Who works from a coffee shop?
- Get a certificate

SSL

- 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"



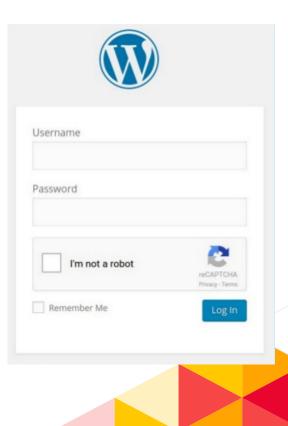
Use Captcha

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



Security Plugins

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)



Def

Security Plugins

Defense

- VaultPress Subscription Service
- Wordfence now includes Two-Factor
- iThemes Security
- All in One WP Security
- Google Authenticator
- Keyy Two-Factor Authentication
- BulletProof Security Firewall
- WP Cerber Security
- Malcare

DON'T install all of them!





Security Plugins

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
- Malcare
- Sucuri professional services
- Check Cron Jobs

