SIWECOS – On the safe side

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Targeting SMEs

"There are only two types of companies: those that have already been hacked, and those that will be," Robert Mueller (Director of the FBI, 2012)

SIWECOS – On the safe side

- Duration of project: September 2016 – October 2018
- Project partners: eco e.V. & Ruhr University Bochum
- Supported by: CMS Garden & Hackmanit

Goals:
- Long-term increase in website security for SMEs
- Help SMEs to identify and address security vulnerabilities on their websites
- Strengthen awareness of the relevance of IT security for SMEs

Partners and Endorsers

SIWECOS – On the safe side

Free website scanner for SMEs
- Checks websites for possible weak points and security vulnerabilities

SIWECOS Hoster Service
- Direct protection against cyber attacks at the web hoster

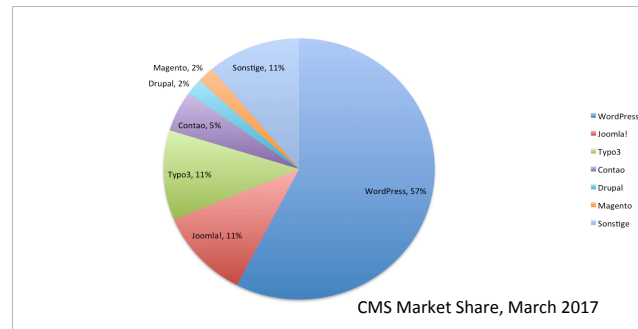Awareness-raising amongst SMEs and website operators
- Roadshows, information videos

Partner und Unterstützer

Targeting SMEs

- 97% of cyber attacks occur through vulnerabilities in widely used standard software
- Most attacks are scattered, not targeted
- Website security is often neglected by SMEs

Many risks can be reduced using simple methods:
- Secure certificates and web server encryption
- Securely configured web servers and websites
- Prompt, ideally automated, security updates
- Regular checking of the website and notification of vulnerabilities or virus infections

CMS Market Share, March 2017

Kleine Unternehmen als Einfallstor für Hacker

AKTUELLES, BRANCHE - geschrieben von dp am Mittwoch, Mai 31, 2017 19:05 - noch keine Kommentare

Im Fadenkreuz der Cyber-Kriminellen: Mittelständler als leichtes Ziel

13.05.2013, 09:59 Uhr | 0

Autoindustrie stark betroffen

Drastischer Anstieg von Cyberangriffen auf kleine und mittlere Unternehmen

Cyberkriminalität
Mittelstand ist Hackern (fast) hilflos ausgeliefert

SIWECOS – On the safe side

- Simple explanations and descriptions – also for "non-techies"
- Signal display for the different types of vulnerabilities
- Target group-appropriate handouts and security recommendations in the SIWECOS WIKI
- Easy registration, implementation, and use

Partners and Endorsers

5 Scanners – 5 Attack Vectors

- **TLS Scanner** checks certificates, protocol versions, & encryption algorithms
- **DOM XSS Scanner** for vulnerability detection of *DOM*-based Cross-Site Scripting vulnerabilities
- **HTTP Security Header Scanner** checks privacy, clickjacking, and XSS protection to prevent spoofing attacks
- **Information Leakage Scanner** checks the privacy settings of the CMS
- **Initiative S Scanner** checks website for viruses or compromises due to third-party content such as phishing

TLS-Scanner Mehr Informationen >>
Letzter Scan: 2017-09-27 10:48:51
- CERTIFICATE_EXPIRED Mehr Informationen >>
- CERTIFICATE_NOT_VALID_YET Mehr Informationen >>
- CERTIFICATE_WEAK_HASH_FUNCTION Mehr Informationen >>
- CERTIFICATE_NOT_SENT_BY_SERVER Mehr Informationen >>
- CIPHERSUITE_ANON Mehr Informationen >>
- CIPHERSUITE_EXPORT Mehr Informationen >>
- CIPHERSUITE_NULL Mehr Informationen >>
- CIPHERSUITE_RC4 Mehr Informationen >>
- CIPHERSUITEORDER_ENFORCED Mehr Informationen >>
- PROTOCOLVERSION_SSL2 Mehr Informationen >>
- PROTOCOLVERSION_SSL3 Mehr Informationen >>

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HTTP Secure Header Scanner Mehr Informationen >>
Letzter Scan: 2017-09-27 10:48:38
- Content-Type Mehr Informationen >>
- Content-Security-Policy Mehr Informationen >>
- Public-Key-Pins Mehr Informationen >>
- Strict-Transport-Security Mehr Informationen >>
- X-Content-Type-Options Mehr Informationen >>
- X-Frame-Options Mehr Informationen >>
- X-Xss-Protection Mehr Informationen >>

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SIWECOS CMS Plugin

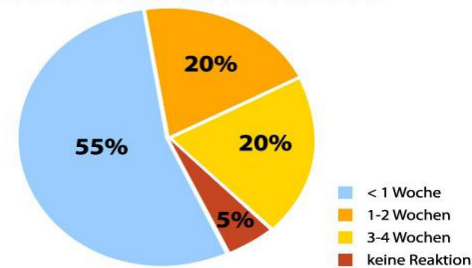SIWECOS security information for your own website directly in the CMS

- Easy implementation and use as an add-on to the CMS installation

- Direct visibility in the CMS attracts more attention from the user

- At present, SIWECOS plugins for WordPress, Joomla, and Contao are available

- Portfolio expansion at CloudFest Hackathon 2018

Partners and Endorsers
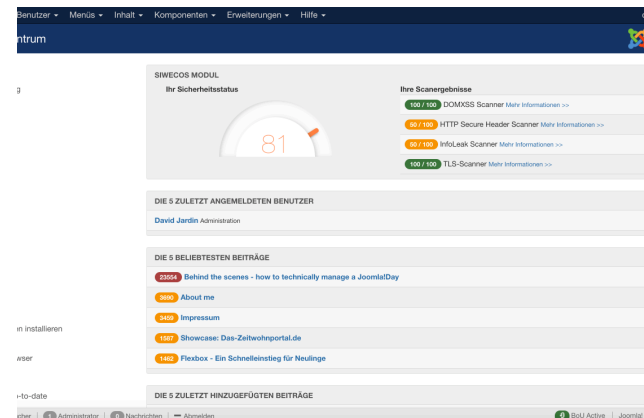
Slow Updates Problem

- Many security problems can be eliminated with fast updates
- Many website operators forgo automatic updates of the CMS – e.g. because plugins are not always immediately compatible
- The site editor is often not the site administrator
- For liability reasons, hosters usually do not independently perform automatic updates for their customers

Reaktionszeit der Seitenbetreiber

55% 20% 20% 5%

- < 1 Woche
- 1-2 Wochen
- 3-4 Wochen
- keine Reaktion

Quelle: G Data

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The SIWECOS Hoster Service

- Direct interface to participating web hosts worldwide
- Active communication of filter rules to defend against attacks (ModSecurity)
- Server-side protection against attacks on the web pages installed at the web hoster - before the web page operators can be infected.
- Enables proactive protection of millions of installed CMS systems without the website operator itself having to take immediate action.

Partners and Endorsers

The SIWECOS Hoster Service

Use Case – Joomla Incident in October 2016:

- Defense against 37,000 attacks in the time-period 0-6 a.m. (= 148,000 attacks per day)
- Cleaning up such an attack costs about € 150 (2.5 hours x € 60 EURO),
- If only 1% of the attacks had been successful, this would have resulted in savings of € 225,000 for the affected SMEs.
- All that for one day with just this one hoster!

Partner und Unterstützer

"IT Security in the Economy"

Project forms part of the "IT Security in the Economy" initiative of the German Federal Ministry for Economic Affairs and Energy (BMWi), (Sept 2016 – Nov 2018)

Initiative "IT Security in the Economy"

The **"IT Security in the Economy"** initiative of the German Federal Ministry for Economic Affairs and Energy (BMWi) aims above all to support small and medium-sized companies in the secure use of ICT systems. Together with IT security experts from academia, business, and administration, the goal of the project is to create a basis for strengthening awareness amongst small and medium-sized businesses in the digital industry on the subject of IT security. Through concrete support measures, companies should be enabled to improve their IT security. Further information on the initiative and its offers can be found in the German language at: www.it-sicherheit-in-der-wirtschaft.de

Partner und Unterstützer

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