

Agenda

Digital Innovation Hub Süd Klaus Gebeshuber | Vorstellung DIH, IT Sec Talks für KMU

Aktuelle Bedrohungen für Unternehmen im Jahr 2021 Klaus Gebeshuber – FH JOANNEUM

Forschungsprojekte in der IT-Sicherheit Christian Derler – JOANNEUM Research

Fahrzeuge als Ziel für Hacker Markus Wolf - AVL | Fahrzeuge als Ziel für Hacker

Schwerwiegende Linux Sicherheitslücke in sudo Patrick Staubmann – FH JOANNEUM

Advanced WEB Attacks - HTTP Request Smuggling Manuel Hacker – FH JOANNEUM

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DIH-SÜD – Digital Innovation Hub Süd

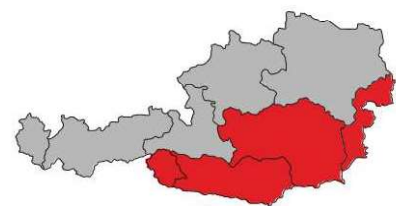
DIH SÜD - Digital Innovation Hub Süd

Was ist der DIH SÜD?

Der **Digital Innovation Hub Süd** ist ein nicht-wirtschaftlich tätiges Kompetenznetzwerk, das als Koordinations- und Anlaufstelle für Selbstständige und Unternehmen zum Thema Digitalisierung im Raum Süd-Österreich dient.

Unser Ziel ist es Digitalisierung in KMU zu ermöglichen, indem wir:

- Bewusstsein für digitale Herausforderungen und Chancen schaffen
- bestehendes Angebot einfach kommunizieren und zugänglich machen
- Anwender und Anbieter zusammenbringen
- spannende Projekte initiieren
- Wissenstransfer zwischen F&E und Wirtschaft fördern.



<https://www.dih-sued.at/>



DIH SÜD - Digital Innovation Hub Süd

Information

Lernen Sie die Bedeutung und Möglichkeiten der Digitalisierung in ihren Anwendungsfeldern kennen!

Weiterlesen

Produktions- und Fertigungstechnologien

Sicherheit

Data Science

Digitale Geschäftsmodelle und Prozesse

Logistik

Humanressourcen & Nachwuchs

Digitale Innovation

Entwickeln Sie Ihre eigenen Pilotprojekte, Prototypen oder Geschäftsmodelle!

Weiterlesen

Qualifikation

Gewinnen Sie ein konkretes Bild über Ihre eigenen Innovationspotentiale!

Weiterlesen

<https://www.dih-sued.at/>

DIH SÜD

- » Angebot der FH JOANNEUM/IIT
 - » Security Infoveranstaltungen
 - » IT-SEC Talks für KMU
 - » Penetration Testing Trainings

Rückblick 2020/2021

02/2020 – Toll Group - Ransomware



40.000 Employees
50 Countries

02/2020 MailTo

05/2020 Netfilim
220GB data stolen

03/2020 – Marriott Data Breach – 5.2Mio records



News Center

ALL NEWS RECOGNITION BRANDS LEADERSHIP

18.4 Mio £ Fine

Marriott International Notifies Guests of Property System Incident

MARCH 31, 2020 — BETHESDA, MD



Marriott International announced that it is notifying some of its guests today of an incident involving a property system. The notice explains what occurred, the information involved, the measures taken by Marriott to investigate and address the issue, how Marriott is assisting guests, and steps guests can consider taking.

07/2020 Garmin - Ransomware

Monday, 27 July 2020, 12:30 pm CDT

Garmin issues statement on recent outage



Payed?

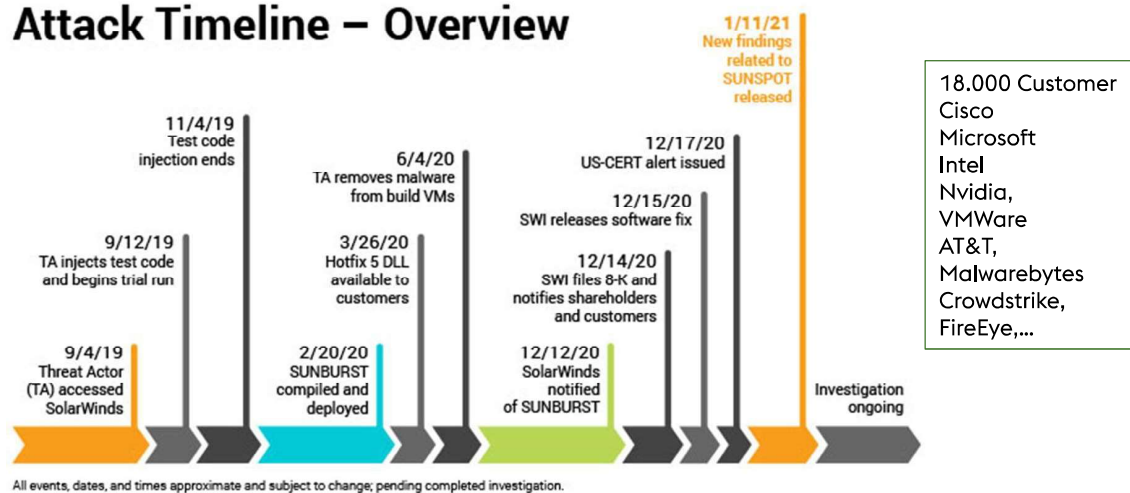
Affected systems are being restored and normal operation is expected soon

OLATHE, Kan. –(BUSINESS WIRE)–

Garmin® Ltd. (NASDAQ: GRMN), today announced it was the victim of a cyber attack that encrypted some of our systems on July 23, 2020. As a result, many of our online services were interrupted including website functions, customer support, customer facing applications, and company communications. We immediately began to assess the nature of the attack and started remediation. We have no indication that any customer data, including payment information from Garmin Pay™, was accessed, lost or stolen. Additionally, the functionality of Garmin products was not affected, other than the ability to access online services.

12/2020 FireEye / Solar Winds

Attack Timeline – Overview



01-03/2021 HAFNIUM - Microsoft Exchange

March 2, 2021

HAFNIUM targeting Exchange Servers with 0-day exploits

Microsoft Threat Intelligence Center (MSTIC)
Microsoft 365 Defender Threat Intelligence Team
Microsoft 365 Security

Who is HAFNIUM?

HAFNIUM primarily targets entities in the United States across a number of industry sectors, including infectious disease researchers, law firms, higher education institutions, defense contractors, policy think tanks, and NGOs.

HAFNIUM has previously compromised victims by exploiting vulnerabilities in internet-facing servers, and has used legitimate open-source frameworks, like [Covenant](#), for command and control. Once they've gained access to a victim network, HAFNIUM typically exfiltrates data to file sharing sites like [MEGA](#).

In campaigns unrelated to these vulnerabilities, Microsoft has observed HAFNIUM interacting with victim Office 365 tenants. While they are often unsuccessful in compromising customer accounts, this reconnaissance activity helps the adversary identify more details about their targets' environments.

HAFNIUM operates primarily from leased virtual private servers (VPS) in the United States.



01-03/2021 HAFNIUM - Microsoft Exchange

- **Jan. 5:** DEVCORE alerts Microsoft of its findings.
- **Jan. 6:** Volexity spots attacks that use unknown vulnerabilities in Exchange.
- **Jan. 8:** DEVCORE reports Microsoft had reproduced the problems and verified their findings.
- **Jan. 25:** DEVCORE snags [proxylogon.com](#), a domain now used to explain its vulnerability discovery process.
- **Jan. 27:** Dubex alerts Microsoft about attacks on a new Exchange flaw.
- **Jan. 29:** Trend Micro publishes a [blog post](#) about "China Chopper" web shells being dropped via Exchange flaws (but attributes cause as Exchange bug Microsoft patched in 2020)
- **Feb. 2:** Volexity warns Microsoft about active attacks on previously unknown Exchange vulnerabilities.
- **Feb. 8:** Microsoft tells Dubex it has "escalated" its report internally.
- **Feb. 18:** Microsoft confirms with DEVCORE a target date of Mar. 9 (tomorrow) for publishing security updates for the Exchange flaws. That is the second Tuesday of the month – a.k.a. "Patch Tuesday," when Microsoft releases monthly security updates (and yes that means check back here tomorrow for the always riveting [Patch Tuesday roundup](#)).
- **Feb. 26-27:** Targeted exploitation gradually turns into a global mass-scan; attackers start rapidly backdooring vulnerable servers.
- **Mar. 2:** A week earlier than previously planned, Microsoft [releases updates to plug 4 zero-day flaws in Exchange](#).
- **Mar. 3:** Tens of thousands of Exchange servers compromised worldwide, with thousands more servers getting freshly hacked each hour.
- **Mar. 4:** White House National Security Advisor [Jake Sullivan tweets](#) about importance of patching Exchange flaws, and how to detect if systems are already compromised.
- **Mar. 5, 1:26 p.m. ET:** In live briefing, White House press secretary [Jen Psaki expresses concern](#) over the size of the attack.
- **Mar. 5, 4:07 p.m. ET:** KrebsOnSecurity [breaks the news](#) that at least 30,000 organizations in the U.S. – and hundreds of thousands worldwide – now have backdoors installed.
- **Mar. 5, 6:56 p.m. ET:** Wired.com confirms the reported number of victims.
- **Mar. 5, 8:04 p.m. ET:** Former CISA head [Chris Krebs tweets](#) the real victim numbers "dwarf" what's been reported publicly.
- **Mar. 6:** CISA [says](#) it is aware of "widespread domestic and international exploitation of Microsoft Exchange Server flaws."
- **Mar. 7:** Security experts [continue effort to notify victims](#), coordinate remediation, and remain vigilant for "Stage 2" of this attack (further exploitation of already-compromised servers).
- **Mar. 9:** Microsoft says 100,000 of 400,000 Exchange servers globally remain unpatched.
- **Mar. 9:** Microsoft "Patch Tuesday," (the original publish date for the Exchange updates); Redmond patches 82 security holes in Windows and other software, including a zero-day vulnerability in its web browser software.
- **Mar. 10:** Working exploit for Exchange flaw [published on Github](#) and then removed by Microsoft, which owns the platform.
- **Mar. 10:** Security firm ESET [reports](#) at least 10 "advanced persistent threat" (APT) cybercrime and espionage groups have been exploiting the newly-exposed Exchange flaws for their own purposes.

03/2021 OVH Rechenzentrum

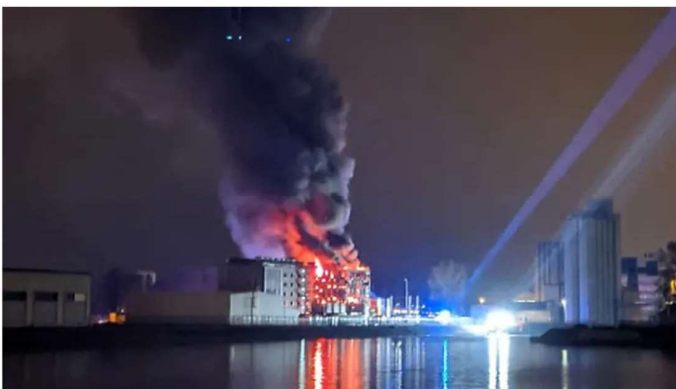


Foto: @ivru / Twitter



Der Standort des Cloudanbieters wurde offline genommen. Auch andere Dienste von OVHcloud haben Probleme, zahlreiche europäische Websites waren down.

04/2021 Alba Ransomware



01/2021 Palfinger Ransomware



05/2021 Colonial Pipeline US - Ransomware



DarkSide (RU)

Ransom:

- 75 Bitcoins paid – 4,4Mio\$
- 63,7 Bitcoins recovered – 2,4Mio\$

Initial Attack:

- Reused VPN credentials

