

Cyclops Blink malware sets up shop in ASUS routers

 [theregister.com/2022/03/18/cyclops_asus_routers/](https://www.theregister.com/2022/03/18/cyclops_asus_routers/)

Jessica Lyons Hardcastle



Security

Kremlin-backed Sandworm has its VPNFilter replacement, it seems

[Jessica Lyons Hardcastle](#) Fri 18 Mar 2022 // 19:02 UTC

15 

Cyclops Blink malware has infected ASUS routers in what Trend Micro says looks like an attempt to turn these compromised devices into command-and-control servers for future attacks.

ASUS says it's working on a remediation for Cyclops Blink and will post software updates if necessary. The hardware maker recommends users reset their gateways to factory settings to flush away any configurations added by an intruder, change the login password, make sure remote management access from the WAN is disabled, and ensure the latest firmware is installed to be safe.

Cyclops Blink has ties to Kremlin-backed Sandworm, the criminal gang behind the nasty VPNFilter malware that in 2018 targeted routers and storage devices. The crew also carried out several high-profile attacks including the 2015 and 2016 cyber-assaults on Ukraine's

electrical grid, NotPetya in 2017, and the French presidential campaign email leak that same year.

A Trend Micro [warning](#) about the router hijackings follows a [joint advisory](#) last month from the FBI, CISA, the US Department of Justice, and the UK National Cyber Security Centre about Cyclops Blink, which the agencies said looked to be Sandworm's replacement for VPNFilter. At the time, the botnet had its sights set on [WatchGuard](#) firewall appliances.

"Our data also shows that although Cyclops Blink is a state-sponsored botnet, its C&C servers and bots affect WatchGuard Firebox and Asus devices that do not belong to critical organizations, or those that have an evident value on economic, political, or military espionage," Trend Micro said. "Hence, we believe that it is possible that the Cyclops Blink botnet's main purpose is to build an infrastructure for further attacks on high-value targets."

And while Cyclops Blink has infected routers from these two hardware providers, "we have evidence that the routers of at least one vendor other than Asus and WatchGuard are connecting to Cyclops Blink C&Cs as well, but so far we have been unable to collect malware samples for this router brand," the security shop said.

It's not clear exactly right now how the malware gets onto a device, though it probably involves exploiting a default admin password to gain access via an enabled remote management service. According to Trend Micro's Cyclops Blink technical analysis, once the modular malware, written in C, has been injected into the gateway and is running, it sets itself up and renames its process to "[ktest]" presumably to appear as a Linux kernel thread.

Next, it waits for 37 seconds and decides on the hard-coded command-and-control (C2) server to talk to along with the rate at which it communicates with the box. Then it begins communicating with its C2 server using an OpenSSL-encrypted channel to join the Cyclops Blink botnet. Among the commands it can receive, the compromised router can be given more malware to run, allowing the botnet's controllers to do whatever they like on the hijacked gateways. ®

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Russian crooks are selling network credentials and virtual private network access for a "multitude" of US universities and colleges on criminal marketplaces, according to the FBI.

According to a warning issued on Thursday, these stolen credentials sell for thousands of dollars on both dark web and public internet forums, and could lead to subsequent cyberattacks against individual employees or the schools themselves.

"The exposure of usernames and passwords can lead to brute force credential stuffing computer network attacks, whereby attackers attempt logins across various internet sites or exploit them for subsequent cyber attacks as criminal actors take advantage of users recycling the same credentials across multiple accounts, internet sites, and services," the Feds' alert [\[PDF\]](#) said.

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Amazon, Apple, Google, Meta, and Microsoft often support privacy in public statements, but behind the scenes they've been working through some common organizations to weaken or kill privacy legislation in US states.

That's according to [a report](#) this week from news non-profit The Markup, which said the corporations hire lobbyists from the same few groups and law firms to defang or drown state privacy bills.

The report examined 31 states when state legislatures were considering privacy legislation and identified 445 lobbyists and lobbying firms working on behalf of Amazon, Apple, Google, Meta, and Microsoft, along with industry groups like TechNet and the State Privacy and Security Coalition.

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America's financial watchdog is investigating whether Elon Musk adequately disclosed his purchase of Twitter shares last month, just as his bid to take over the social media company hangs in the balance.

A letter [[PDF](#)] from the SEC addressed to the tech billionaire said he "[did] not appear" to have filed the proper form detailing his 9.2 percent stake in Twitter "required 10 days from the date of acquisition," and asked him to provide more information. Musk's shares made him one of Twitter's largest shareholders. The letter is dated April 4, and was shared this week by the regulator.

Musk quickly moved to try and buy the whole company outright in a deal initially worth over \$44 billion. Musk sold a chunk of his shares in Tesla worth \$8.4 billion and bagged another \$7.14 billion from investors to help finance the \$21 billion he promised to put forward for the deal. The remaining \$25.5 billion bill was secured via debt financing by Morgan Stanley, Bank of America, Barclays, and others. But the takeover is not going smoothly.

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Cloud security company Lacework has laid off 20 percent of its employees, just months after two record-breaking funding rounds pushed its valuation to \$8.3 billion.

A spokesperson wouldn't confirm the total number of employees affected, though told *The Register* that the "widely speculated number on Twitter is a significant overestimate."

The company, as of March, counted more than 1,000 employees, which would push the jobs lost above 200. And the widely reported number on Twitter is about 300 employees. The biz, based in Silicon Valley, was founded in 2015.

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[Jeff Burt](#) Fri 27 May 2022 // 18:30 UTC 

A researcher at Cisco's Talos threat intelligence team found eight vulnerabilities in the Open Automation Software (OAS) platform that, if exploited, could enable a bad actor to access a device and run code on a targeted system.


The OAS platform is widely used by a range of industrial enterprises, essentially facilitating the transfer of data within an IT environment between hardware and software and playing a central role in organizations' industrial Internet of Things (IIoT) efforts. It touches a range of devices, including PLCs and OPCs and IoT devices, as well as custom applications and APIs, databases and edge systems.

Companies like Volvo, General Dynamics, JBT Aerotech and wind-turbine maker AES are among the users of the OAS platform.

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Nvidia is expecting a \$500 million hit to its global datacenter and consumer business in the second quarter due to COVID lockdowns in China and Russia's invasion of Ukraine. Despite those and other macroeconomic concerns, executives are still optimistic about future prospects.


"The full impact and duration of the war in Ukraine and COVID lockdowns in China is difficult to predict. However, the impact of our technology and our market opportunities remain unchanged," said Jensen Huang, Nvidia's CEO and co-founder, during the company's first-quarter earnings call.

Those two statements might sound a little contradictory, including to some investors, particularly following the [stock selloff](#) yesterday after concerns over Russia and China prompted Nvidia to issue lower-than-expected guidance for second-quarter revenue.

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[That's the second in a week following similar system in Munich also aimed at researchers](#)

[Dan Robinson](#) Fri 27 May 2022 // 15:30 UTC 

HPE is lifting the lid on a new AI supercomputer – the second this week – aimed at building and training larger machine learning models to underpin research.

Based at HPE's Center of Excellence in Grenoble, France, the new supercomputer is to be named Champollion after the French scholar who made advances in deciphering Egyptian hieroglyphs in the 19th century. It was built in partnership with Nvidia using AMD-based Apollo computer nodes fitted with Nvidia's A100 GPUs.

Champollion brings together HPC and purpose-built AI technologies to train machine learning models at scale and unlock results faster, HPE said. HPE already provides HPC and AI resources from its Grenoble facilities for customers, and the broader research community to access, and said it plans to provide access to Champollion for scientists and engineers globally to accelerate testing of their AI models and research.

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HR and finance application vendor Workday's CEO, Aneel Bhusri, confirmed deal wins expected for the three-month period ending April 30 were being pushed back until later in 2022.

The SaaS company boss was speaking as Workday recorded an operating loss of \$72.8 million in its first quarter [[PDF](#)] of fiscal '23, nearly double the \$38.3 million loss recorded for the same period a year earlier. Workday also saw revenue increase to \$1.43 billion in the period, up 22 percent year-on-year.

However, the company increased its revenue guidance for the full financial year. It said revenues would be between \$5.537 billion and \$5.557 billion, an increase of 22 percent on earlier estimates.

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The UK's Competition and Markets Authority is lining up yet another investigation into Google over its dominance of the digital advertising market.

This latest inquiry, [announced Thursday](#), is the second major UK antitrust investigation into Google this year alone. In March this year the UK, together with the European Union, said it wished to examine Google's ["Jedi Blue" agreement](#) with Meta to allegedly favor the former's Open Bidding ads platform.

The news also follows [proposals](#) last week by a bipartisan group of US lawmakers to create legislation that could force Alphabet's Google, Meta's Facebook, and Amazon to divest portions of their ad businesses.

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['Making sure the right resources are aligned to the right opportunity' ahead of next fiscal year](#)

[Richard Speed](#) Fri 27 May 2022 // 13:31 UTC **5** 

Microsoft has hit the brakes on hiring in some key product areas as the company prepares for the next fiscal year and all that might bring.

According to reports in the [Bloomberg](#), the unit that develops Windows, Office, and Teams is affected and while headcount remains expected to grow, new hires in that division must first be approved by bosses.

During a talk this week at JP Morgan's Technology, Media and Communications Conference, Rajesh Jha, executive VP for the Office Product Group, noted that within three years he expected approximately two-thirds of CIOs to standardize on Microsoft Teams. 1.4 billion PCs were running Windows. He also remarked: "We have lots of room here to grow the seats with Office 365."

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[Paul Kunert](#) Fri 27 May 2022 // 13:00 UTC 

Enterprises are still kitting out their workforce with the latest computers and refreshing their datacenter hardware despite a growing number of "uncertainties" in the world.

This is according to hardware tech bellwethers including Dell, which turned over \$26.1 billion in sales for its [Q1 of fiscal 2023 ended 29 April](#), a year-on-year increase of 16 percent.

"We are seeing a shift in spend from consumer and PCs to datacenter infrastructure," said Jeff Clarke, vice-chairman and co-chief operating officer. "IT demand is currently healthy," he added.

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