

France says Russian state hackers breached numerous critical networks

By Bill Toulas

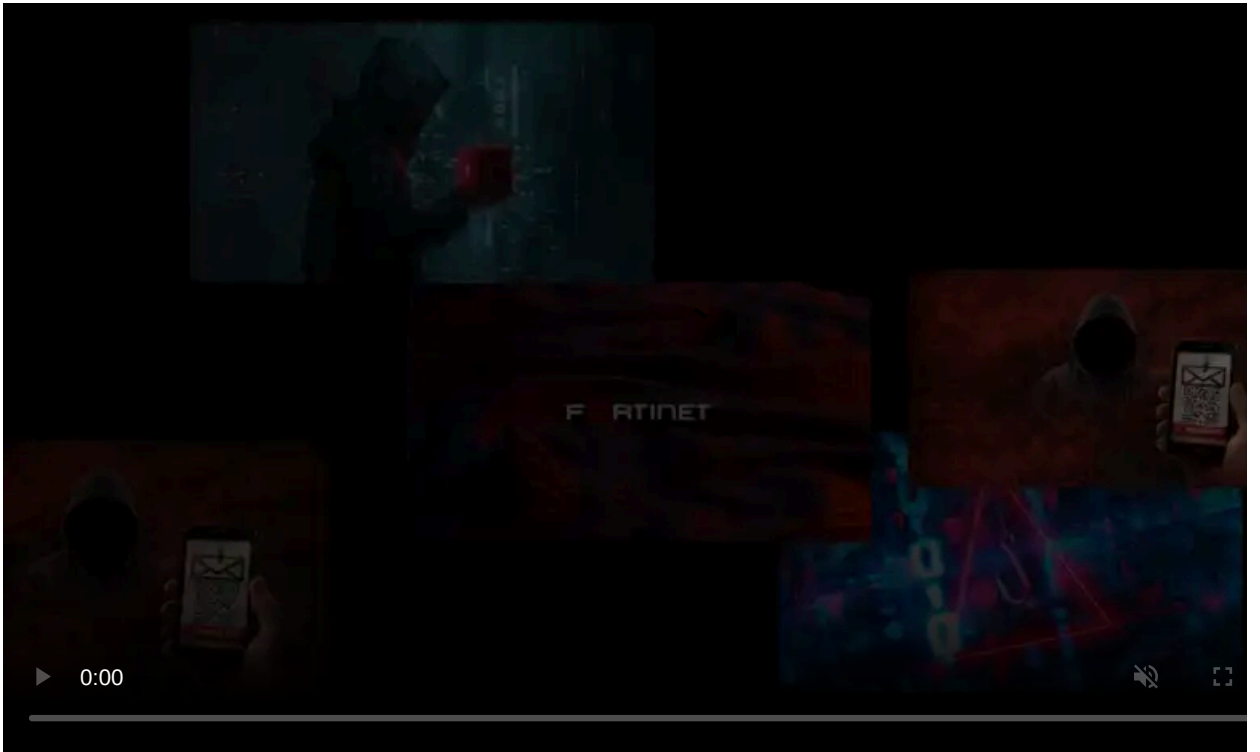
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The Russian APT28 hacking group (aka 'Strontium' or 'Fancy Bear') has been targeting government entities, businesses, universities, research institutes, and think tanks in France since the second half of 2021.

The threat group, which is considered part of Russia's military intelligence service GRU, was recently linked to the [exploitation of CVE-2023-38831](#), a remote code execution vulnerability in WinRAR, [and CVE-2023-23397](#), a zero-day privilege elevation flaw in Microsoft Outlook.

The Russian hackers have been compromising peripheral devices on critical networks of French organizations and moving away from utilizing backdoors to evade detection.



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This is according to a newly published report from [ANSSI](#) (Agence Nationale de la sécurité des systèmes d'information), the French National Agency for the Security of Information Systems, that conducted investigations on the activities of the cyber-espionage group.

Network reconnaissance and initial access

ANSSI has mapped the TTPs (techniques, tactics, and procedures) of APT28, reporting that the threat group uses brute-forcing and leaked databases containing credentials to breach accounts and Ubiquiti routers on targeted networks.

In one case from April 2023, the attackers ran a phishing campaign that tricked the recipients into running PowerShell that exposed their system configuration, running processes, and other OS details.

Between March 2022 and June 2023, APT28 sent emails to Outlook users that exploited the then zero-day vulnerability now tracked as CVE-2023-23397, placing the initial exploitation a month earlier than what was recently reported.

During this period, the attackers also exploited CVE-2022-30190 (aka "Follina") in the Microsoft Windows Support Diagnostic Tool and CVE-2020-12641, CVE-2020-35730, CVE-2021-44026 in the Roundcube application.

The tools used in the first stages of the attacks include the Mimikatz password extractor and the reGeorg traffic relaying tool, as well as the Mockbin and Mocky open-source services.

ANSSI also reports that APT28 uses a range of VPN clients, including SurfShark, ExpressVPN, ProtonVPN, PureVPN, NordVPN, CactusVPN, WorldVPN, and VPNSecure.

Émetteur	MDS du fichier	Date d'envoi	URI	Routeur compromis
maint[.]@goldenloafuae[.]com	9f4172d554bb9056c8ba28e32c606b1e	2022-03-18	\\5.199.162.132\SCW	5.199.162.132
accounts[.]@regencyservice[.]jin	3d4362e8fe86d2f33ac3e15f1dad341	2022-04-14	\\101.255.119.42\event\2431	101.255.119.42
vikram.anand[.]@4ginfosource[.]com	f60350585fbfc5dc968f45c6ef4e434d	2022-05-17	\\101.255.119.42\mail\5b3553d	101.255.119.42
Inconnu	92e22b7e96aca3f9d733ca609ab0b589	2022-10-05	Inconnu	213.32.252.221
franch1.lanka[.]@jplanka[.]com	43a0441b35b3db061cde412541f4d1e1	2022-10-25	\\168.205.200.55\test	168.205.200.55
mdelafuente[.]@lukwwfze[.]com	9a97c56c9ea6d9ebde0968580ea28ea9	2022-10-25	Inconnu	213.32.252.221
karina[.]@bhpcapital[.]com	e68cbd4930e2781e0c1b19eb72ec0936	2022-10-26	Inconnu	213.32.252.221
m.salim[.]@jtsc-me[.]com	b21dde4c19e2f6fc08a922e25de38cf5	2022-12-01	\\185.132.17.160\aojv43	185.132.17.160
ashoke.kumar[.]@hbcifef[.]jin	b5d82be5813c7dacbd97ef5df073b260	2022-12-14	\\69.51.2.106\report	69.51.2.106
jayan[.]@jwizzsolutions[.]com	2bb4c6b32d07c0f80cda1006da90365	2022-12-29	\\113.160.234.229\istanbul	113.160.234.229
m.yasser[.]@jegymatec[.]jae	238334590d0f62da089bd87ad71b730	2023-03-15	\\85.195.206.7\rmng	85.195.206.7
commercial[.]@jvanadrink[.]com	7ee19e6bd9f5ebcd0d6413c68346de6	2023-03-17	\\85.195.206.7\power	85.195.206.7
commercial[.]@jvanadrink[.]com	3b698278f225f1e5bace9d177a1a95e0	2023-03-21	\\61.14.68.33\rem	61.14.68.33
Inconnu	ce65c51078b7c69a6f50b0b37a36293f	2023-03-28	\\24.142.165.2\req	24.142.165.2
m.nash[.]@jislandsailors[.]com	65fdb35bc8c3a2f0e872dbbf32c7a7	2023-03-29	\\42.98.5.225\ping	42.98.5.225

Addresses that disseminated emails exploiting CVE-2023-23397 (ANSSI)

Data access and exfiltration

As a cyber-espionage group, data access and exfiltration are at the core of Strontium's operational goals.

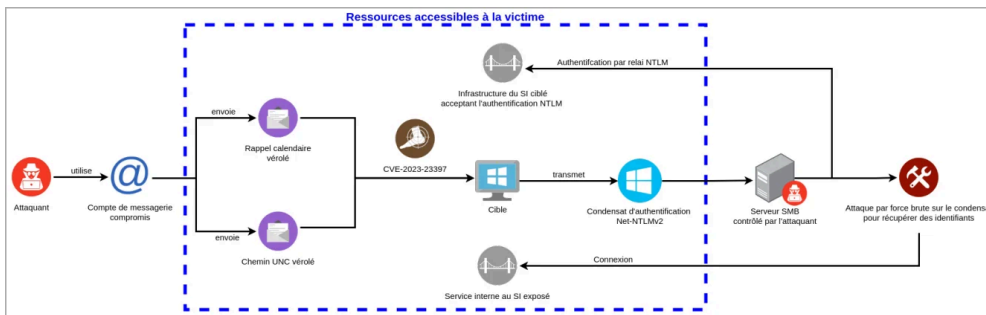
ANSSI has observed the threat actors retrieving authentication information using native utilities and stealing emails containing sensitive information and correspondence.

Specifically, the attackers exploit CVE-2023-23397 to trigger an SMB connection from the targeted accounts to a service under their control, allowing the retrieval of the NetNTLMv2 authentication hash, which can be used on other services, too.

APT28's command and control server (C2) infrastructure relies on legitimate cloud services, such as Microsoft OneDrive and Google Drive, to make the exchange less likely to raise any alarms by traffic monitoring tools.

Finally, ANSSI has seen evidence that the attackers collect data using the CredoMap implant, which targets information stored in the victim's web browser, such as authentication cookies.

Mockbin and the Pipedream service are also involved in the data exfiltration process.



APT28 attack chain (ANSSI)

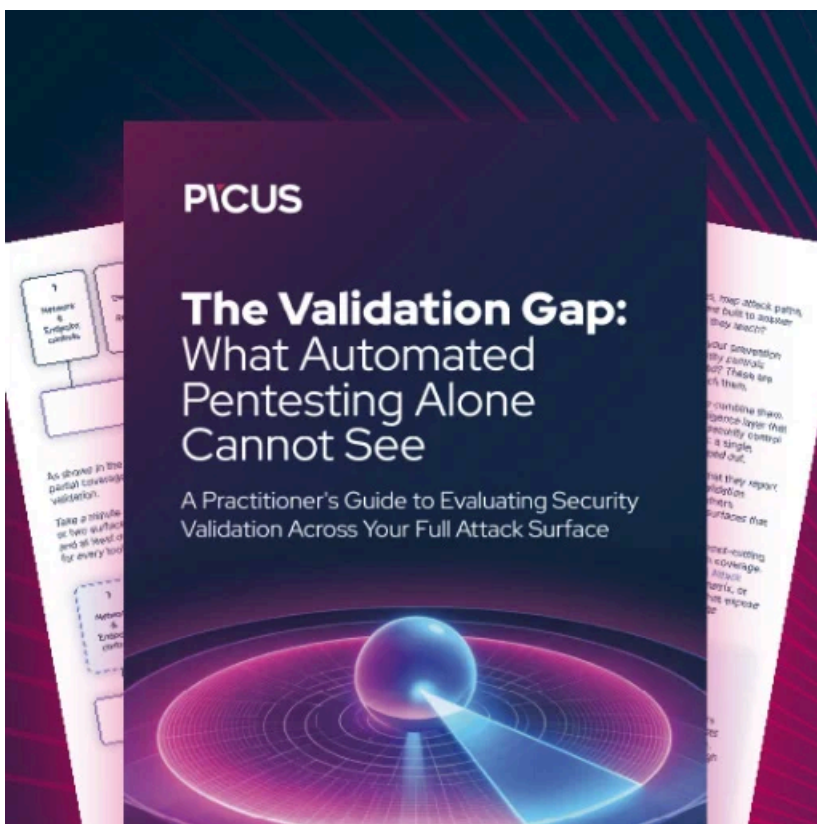
Defense recommendations

ANSSI emphasizes a comprehensive approach to security, which entails assessing risks. In the case of the APT28 threat, focusing on email security is crucial.

The agency's key recommendations around email security include:

- Ensure the security and confidentiality of email exchanges.
- Use secure exchange platforms to prevent email diversions or hijacks.
- Minimize the attack surface of webmail interfaces and reduce risks from servers like Microsoft Exchange.
- Implement capabilities to detect malicious emails.

For more details on ANSSI's findings and defense tips, check out the [full report here](#).



[Automated Pentesting Covers Only 1 of 6 Surfaces.](#)

Automated pentesting proves the path exists. BAS proves whether your controls stop it. Most teams run one without the other.

This whitepaper maps six validation surfaces, shows where coverage ends, and provides practitioners with three diagnostic questions for any tool evaluation.

Source: <https://www.bleepingcomputer.com/news/security/france-says-russian-state-hackers-breached-numerous-critical-networks/>