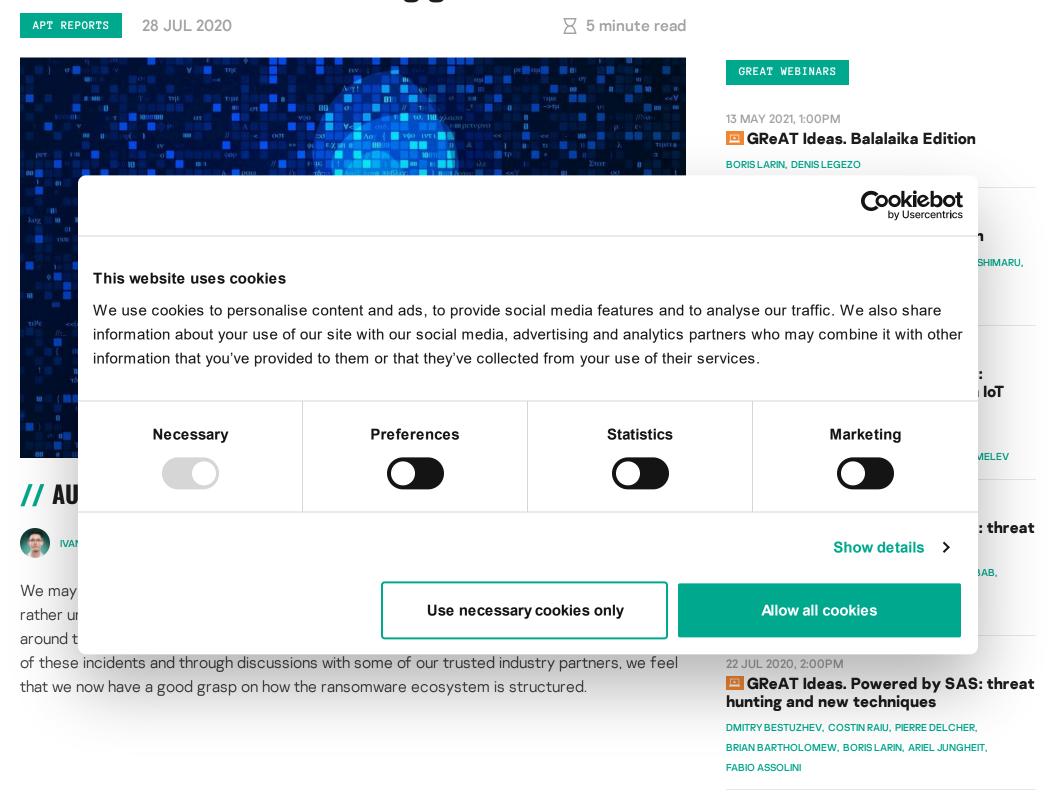


Lazarus on the hunt for big game



Structure of the ransomware ecosystem

Criminals piggyback on widespread botnet infections (for instance, the infamous <u>Emotet</u> and <u>Trickbot</u> malware families) to spread into the network of promising victims and license ransomware "products" from third-party developers. When the attackers have a good understanding of the target's finances and IT processes, they deploy the ransomware on all the company's assets and enter the negotiation phase.

This ecosystem operates in independent, highly specialized clusters, which in most cases have no links to each other beyond their business ties. This is why the concept of threat actors gets fuzzy: the group responsible for the initial breach is unlikely to be the party that compromised the victim's Active Directory server, which in turn is not the one that wrote the actual ransomware code used during the incident. What's more, over the course of two incidents, the same criminals may switch business partners and could be leveraging different botnet and/or ransomware families altogether.

But of course, no complex ecosystem could ever be described by a single, rigid set of rules and this one is no exception. In this blog post, we describe one of these outliers over two separate investigations that occurred between March and May 2020.

FROM THE SAME AUTHORS

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Case #1: The VHD ransomware

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The Mersenne Twister RNG is reseeded every time it is called.

To the best of our knowledge, this malware family was first discussed publicly in this blog post.

which implies there may be a chance to recover some of the files.

A spreading utility, discovered along the ransomware, propagated the program inside the network. It contained a list of administrative credentials and IP addresses specific to the victim, and leveraged them to brute-force the SMB service on every discovered machine. Whenever a successful connection was made, a network share was mounted, and the VHD ransomware was copied and executed through WMI calls. This stood out to us as an uncharacteristic technique for cybercrime groups; instead, it reminded us of the APT campaigns Sony SPE, Shamoon and OlympicDestroyer, three previous wipers with worming capabilities.

We were left with more questions than answers. We felt that this attack did not fit the usual *modus operandi* of known big-game hunting groups. In addition, we were only able to find a very limited number of VHD ransomware samples in our telemetry, and a few public references. This indicated that this ransomware family might not be traded widely on dark market forums, as would usually be the case.

Case #2: Hakuna MATA

A second incident, two months later, was handled by Kaspersky's Incident Response team (GERT). That meant we were able to get a complete picture of the infection chain leading to the installation of the VHD ransomware.

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written in Python that we still believe to be in development. The whole infection took place over the course of 10 hours.

A more relevant piece of information is that the backdoor used during this incident is an instance of a multiplatform framework we call MATA (some vendors also call it <u>Dacls</u>). On July 22, we published a <u>blog article dedicated</u> to this framework. In it, we provide an in-depth description of its capabilities and provide evidence of its links to the Lazarus group. <u>Other members of the industry independently reached similar conclusions</u>.

The forensics evidence gathered during the incident response process is strong enough that we feel comfortable stating with a high degree of confidence that there was only a single threat actor in the victim's network during the time of the incident.

Conclusion

The data we have at our disposal tends to indicate that the VHD ransomware is not a commercial off-the-shelf product; and as far as we know, the Lazarus group is the sole owner of the MATA framework. Hence, we conclude that the VHD ransomware is also owned and operated by Lazarus.

IN THE SAME CATEGORY

Beyond the Surface: the evolution and expansion of the SideWinder APT group

Circling back to our introduction, this observation is at odds with what we know about the cybercrime ecosystem. Lazarus has always existed at a special crossroads between APT and financial crime, and there have long been rumors in the threat intelligence community that the group was a client of various botnet services. We can only speculate about the reason why they are now running solo ops: maybe they find it difficult to interact with the cybercrime underworld, or maybe they felt they could no longer afford to share their profits with third parties.

It's obvious the group cannot match the efficiency of other cybercrime gangs with their hit-and-run approach to targeted ransomware. Could they really set an adequate ransom price for their victim during the 10 hours it took to deploy the ransomware? Were they even able to figure out where the backups were located? In the end, the only thing that matters is whether these operations turned a profit for Lazarus.

Only time will tell whether they jump into hunting big game full time, or scrap it as a failed experiment.

BlindEagle flying high in Latin America

EastWind campaign: new CloudSorcerer attacks on government organizations in Russia

APT trends report Q2 2024

CloudSorcerer – A new APT targeting Russian government entities

Indicators of compromise

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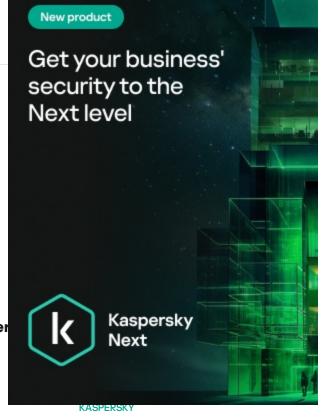
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Kaspersky analyzes SideWinder APT's recent activity: new targets in the MiddleEast and Africa, post-exploitation tools and techniques.

EastWind campaign: new CloudSorcerer attacks on government organizations in Russia

Kaspersky has identified a new EastWind campaign targeting Russian organizations and using CloudSorcerer as well as APT31 and APT27 tools.

TTPs of the BlindEagle APT, which targets organizations and individuals in Colombia, Ecuador, Chile, Panama and other Latin American countries.

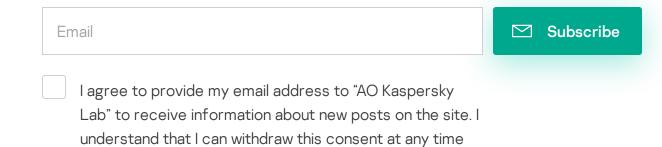
APT trends report Q2 2024

The report features the most significant developments relating to APT groups in Q2 2024, including the new backdoor in Linux utility XZ, a new RAT called SalmonQT, and hacktivist activity.

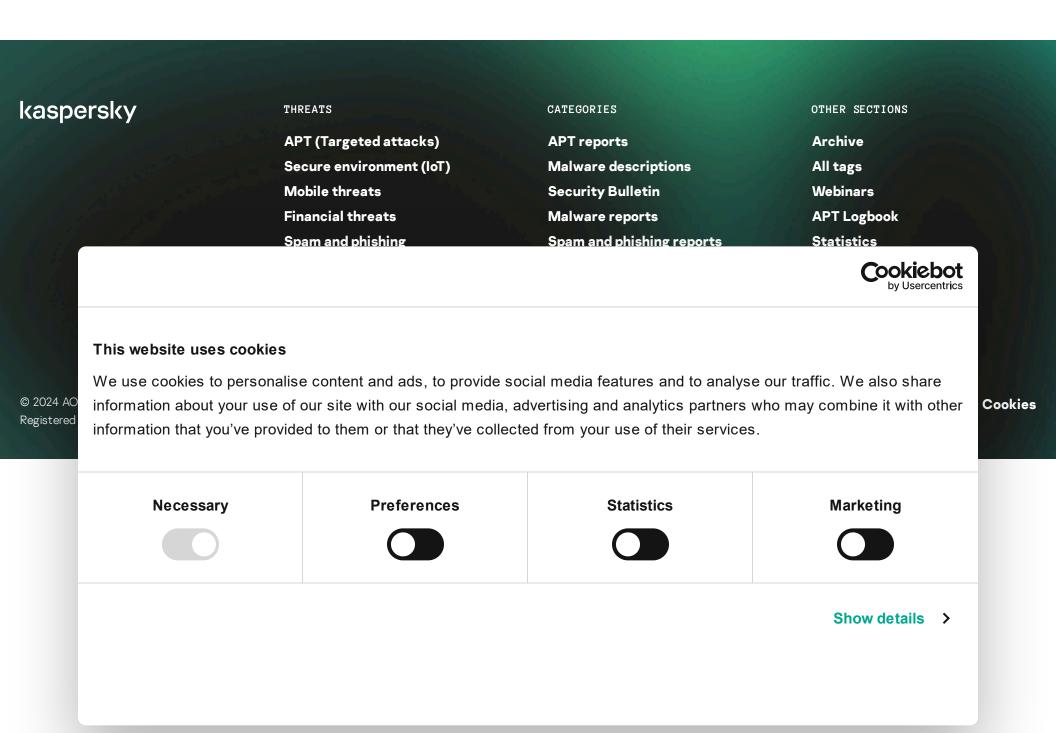


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