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Defending Against SCATTERED SPIDER and The Com with Cybercrime Intelligence

Due to the notoriety SCATTERED SPIDER and The Com have attracted as prolific cybercriminal threats, law enforcement has been tracking them closely.

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In this blog, the authors of *SANS FOR589: Cybercrime Intelligence* highlight how it was possible to identify, track, profile, and defend against a prolific cybercriminal threat group known as [SCATTERED SPIDER](#) [🔗](#), which is part of a broader community of cybercriminals dubbed The Com, which is short for The Community. This includes exploring the cybercrime underground to uncover the same services, tools, infrastructure, and communities that SCATTERED SPIDER participates in.

The emergence and notoriety that SCATTERED SPIDER generated is exemplary of the type of cybercriminal activity [FOR589](#) focuses on. This blog highlights key aspects of how FOR589 will teach students to generate actionable intelligence tracking emerging threats through monitoring cybercriminal activities.

Introduction to The Com and SCATTERED SPIDER

In May 2024, at the cybercrime-focused [Sleuthcon](#) [🔗](#) conference, the FBI recently [warned](#) [🔗](#) that there is a community of young mostly English-speaking cybercriminals known as The Com that is responsible for multiple high-profile breaches as well as SIM swapping fraud. It is made up of approximately 1,000 individuals, according to the FBI. Cybersecurity podcasts such as [Darknet Diaries](#) [🔗](#) and [Click Here](#) [🔗](#) have also interviewed participants of The Com that provided details about how The Com works.

SCATTERED SPIDER is the most used moniker, coined by [CrowdStrike](#) [🔗](#), for the cybercriminal threat group that evolved out of The Com and developed a common set of intrusion techniques observed across multiple high-profile breaches. [Will Thomas](#), the co-author of FOR589, also [spoke about this cybercrime group](#) [🔗](#) at BSides Cheltenham in June 2023. Other cybercrime groups such as [LAPSUS\\$](#) [🔗](#) are another example of adversaries evolving out of The Com.

SCATTERED SPIDER is a threat group that has been active for a long time. Muddled tracking a group like this is a challenge. The Com is a community of cybercriminals that share tactics, tools, and infrastructure. This confidentiality is a key factor in their success. The importance and need to track individuals and communities separately through cybercrime intelligence is a key factor in their success.

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intelligence. Simply put, SCATTERED SPIDER does not fit neatly into the current paradigm perpetrated by cybersecurity vendors who prefer to cluster all adversaries neatly like advanced persistence threat (APT) groups only through the lens of intrusion analysis.

Due to the notoriety SCATTERED SPIDER and The Com have attracted as prolific cybercriminal threats, law enforcement has been tracking them closely. There have, so far, been two arrests by US and European law enforcement of individuals [reportedly](#) [🔗](#) part of this high-profile cybercrime ring known as The Com. In January 2024, US authorities [charged](#) [🔗](#) a 19-year-old from Florida and in June 2024 a UK citizen was [arrested](#) [🔗](#) in Spain.

Notable Victims of The Com

Some of the most well-known victims and targets of this common set of TTPs originating from The Com include big name brands such as [HubSpot](#) [🔗](#), [Twilio](#) [🔗](#), [DoorDash](#) [🔗](#), [Okta](#) [🔗](#), [Cloudflare](#) [🔗](#), and [Activision](#) [🔗](#) in 2022. Followed by [MailChimp](#) [🔗](#), [RiotGames](#) [🔗](#), [Reddit](#) [🔗](#), [Coinbase](#) [🔗](#), [Clorox](#) [🔗](#), [MGM](#), and [Caesars](#) [🔗](#) in 2023. MGM also [disclosed](#) [🔗](#) through their US Security Exchange Commission (SEC) filing that the overall cost from the disruption to their operations by the ransomware attack was \$100 million USD.

Note that directly attributing intrusions to The Com or SCATTERED SPIDER is difficult unless the victim confirms it themselves. The TTPs deployed against these victims, however, closely align with the capabilities outlined by the various cybersecurity vendors and in joint cybersecurity advisories by government agencies.

Broad Capabilities and Common Intrusion Patterns

The reason it is so hard to defend against the TTPs of The Com is that they use a combination of social engineering methods to gain initial access, and once inside their target environment, they employ various methods to successfully evade modern enterprise security tools. Their common intrusion patterns are not necessarily advanced, but are highly effective, which makes them a significant threat for most large companies.

This includes being able to bypass security tools for host-based defenses, like endpoint detection and response (EDR) systems as well as identity and access management (IAM) tools like single sign-on (SSO). Their knowledge of enterprise Windows environments, multiple cloud tenants, and virtualized infrastructure also makes them difficult to evict from victim networks. Their experience exploiting these enterprise security systems also potentially indicates they have worked with them legitimately in the past.

The common capabilities from threat reports describing those leveraged by members of The Com can be extracted into TTP categories in a table, as shown below.

Tactic	Technique	Threat Report(s)
Initial Access	SIM Swapping	CISA Report 🔗
		Mandiant Report 🔗
Initial Access	SMS Phishing	Twilio Report 🔗
		Cloudflare Report 🔗
Initial Access		
Defense Efficacy		

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Defense Evasion	Remote Monitoring and Management (RMM) tools	CrowdStrike Report 🔗
		Microsoft Report 🔗
		Mandiant Report 🔗
		CCCS Report 🔗
		CISA Report 🔗
Defense Evasion	UEFI Bootkit	CISA Report 🔗
Privilege Escalation	Exploit CrowdStrike Real-Time-Response (RTR) Console	Mandiant Report 🔗
Privilege Escalation	Steal credentials from Password Managers	Mandiant Report 🔗
Persistence	Create Virtual Machines	Mandiant Report 🔗
Lateral Movement	Exploit the Azure Admin Console	Mandiant Report 🔗
Collection	Source Code Repositories	Permiso Report 🔗
Collection	Business SaaS Repositories	Mandiant Report 🔗
Exfiltration	Exfiltrate to AWS or GCP cloud storage	Mandiant Report 🔗
Command-and-Control	Residential Proxy Services	Mandiant Report 🔗
		CrowdStrike Report 🔗
		Permiso Report 🔗
		Microsoft Report 🔗
		CCCS Report 🔗
Impact	DeployALPHV/BlackCat Ransomware	CISA Report 🔗

When Western and Russian Cybercriminals Combine

It was not realized until mid-2023 that some members of The Com (the SCATTERED SPIDER sub-group) had likely joined forces with the Russian-speaking ransomware gang known as [ALPHV/BlackCat](#) [🔗](#). Through the collection of cybercrime intelligence related to intrusions and TTPs attributed to The Com, several technical, behavioral, and temporal overlaps were discovered.

In February 2023, Reddit [disclosed publicly](#) [🔗](#) that they suffered a data breach and that the root cause was a combination of technical and behavioral factors. The breach involved the compromise of authentication credentials, which were used to launch a targeted phishing campaign against the company's employees. The campaign was orchestrated by a group of cybercriminals, including the Digital Law Society (DLS), which is a known threat actor.

A [warning](#) was issued by the Canadian Security Intelligence Service (CSIS) regarding the ALPHV/BlackCat affiliate against Canadian companies. This included the use of SMS phishing for

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SSO access, spearphishing voice calls, multi-factor authentication (MFA) push notification fatigue attacks, and the delivery of RMM tools. Plus, many of the same TTPs [described](#) [by](#) Coinbase in February 2023 were also present in the CCCS advisory. These reports act as further evidence that these English-speaking cybercriminals had joined forces with a Russian-speaking ransomware group.

Monitoring the Cybercrime Underground

To be able to stand a chance against SCATTERED SPIDER and The Com and not end up as their next victim, it is vital for organizations to monitor related activities going on in the cybercriminal underground. This includes identifying examples of where these adversaries can leverage services, tools, access, and resources to launch their intrusions.

One of the most well-known TTPs used by SCATTERED SPIDER is the [BYOVD](#) [trick](#) and use of [malicious signed drivers](#) [to](#) terminate the processes of antivirus (AV) and EDR systems. These types of utilities are often put up for sale on Russian-speaking cybercrime forums, such as XSS forum (formerly DaMaGeLaB) or RAMP (see Figure 1). Another one of these [EDR-killing tools](#) [called](#) ‘Terminator’ was offered by the RAMP member ‘Spyboy’ for \$3,000 USD in May 2023.

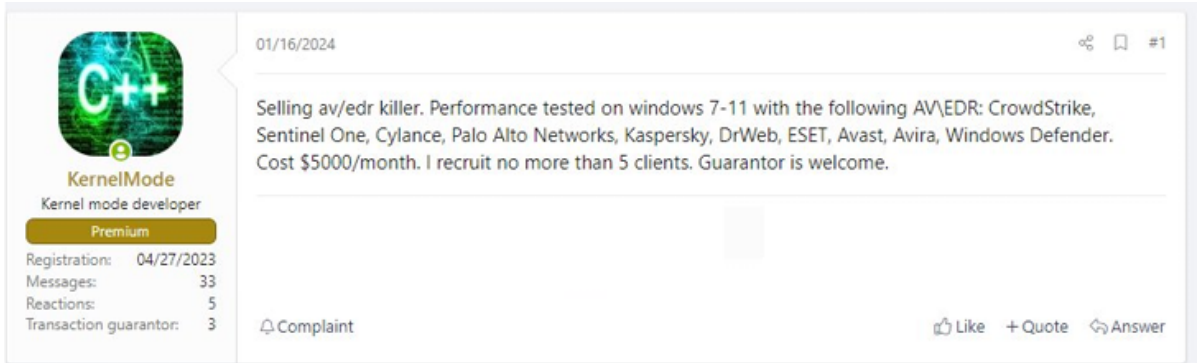
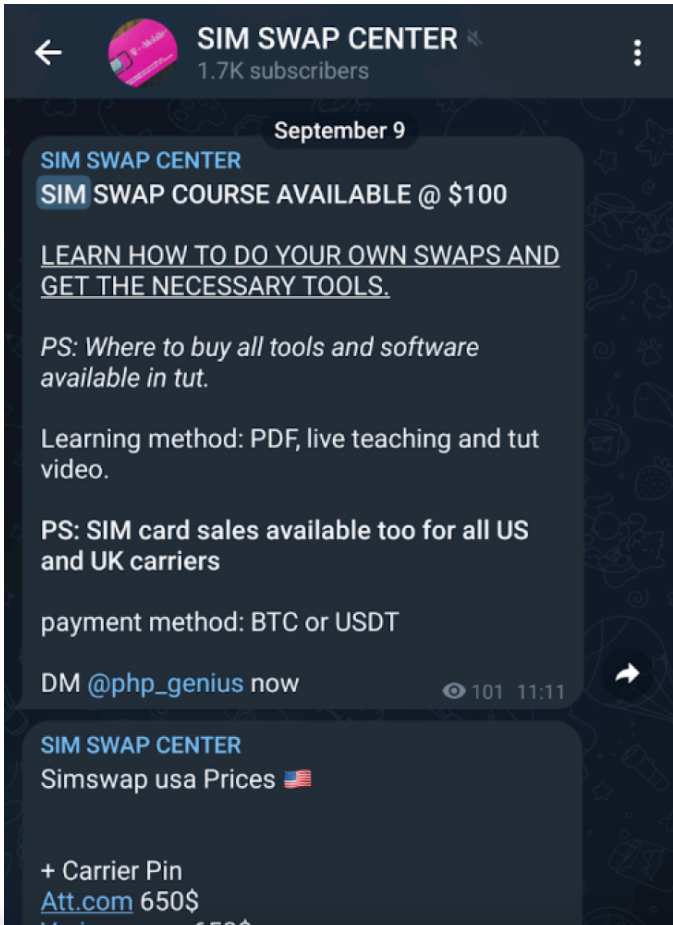


Figure 1: AV/EDR killer utility offered for sale on Xss[.]is forum.

Another TTP commonly associated with threat actors from The Com is SIM swapping. This involves exploiting a mobile carrier’s phone number transfer system to take control of a target’s phone number. This enables a cybercriminal to access SMS messages, such as 2FA codes sent during typical authentication processes. SIM swapping services can be easily found for sale across Telegram channels, with varying levels of legitimacy (see Figure 2).



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Figure 2: SIM swap services offered on Telegram.

A staple of SCATTERED SPIDER campaigns is the use of SMS bulk message sending services to deliver their phishing links posing as SSO login portals. Interestingly, they use the same services enterprises do for 2FA code delivery, things like parcel delivery updates or marketing, such as Twilio, Telnyx, and Nexmo, among others. These services can be regularly found across the underground from various regions (see Figure 3).

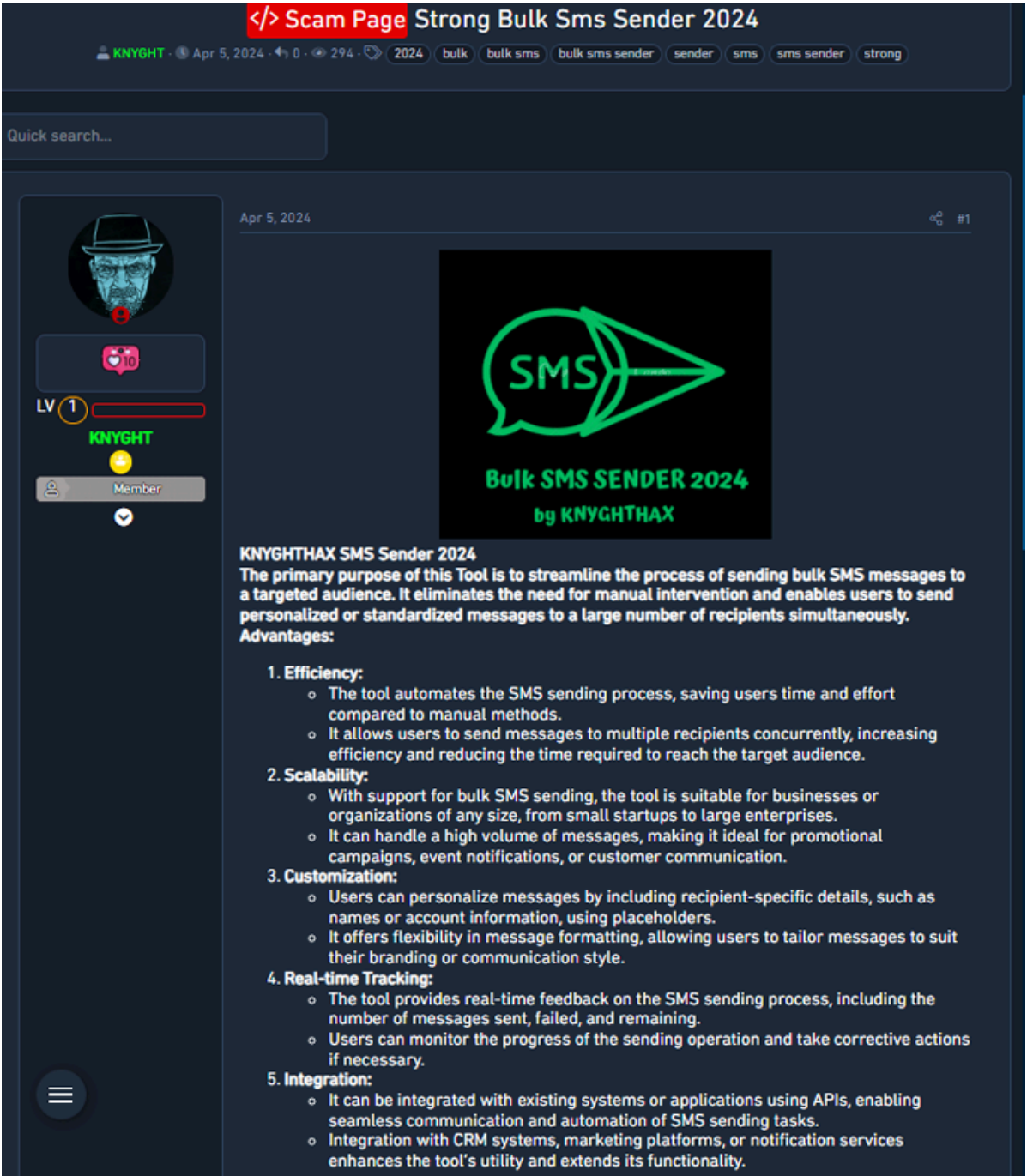


Figure 3: Bulk SMS sending service offered for sale.

The ALPHV/BlackCat ransomware gang also used to advertise their affiliate program on the Russian-speaking Exploit[.]in cybercrime forum (see Figure 4). The admin ‘alphv’ would post their TOX and Jabber details to the forum and invite other users to apply to join their Ransomware-as-a-Service (RaaS) affiliate program. The members of The Com could easily have joined Exploit forum and reached out to the admin and applied to become an affiliate.

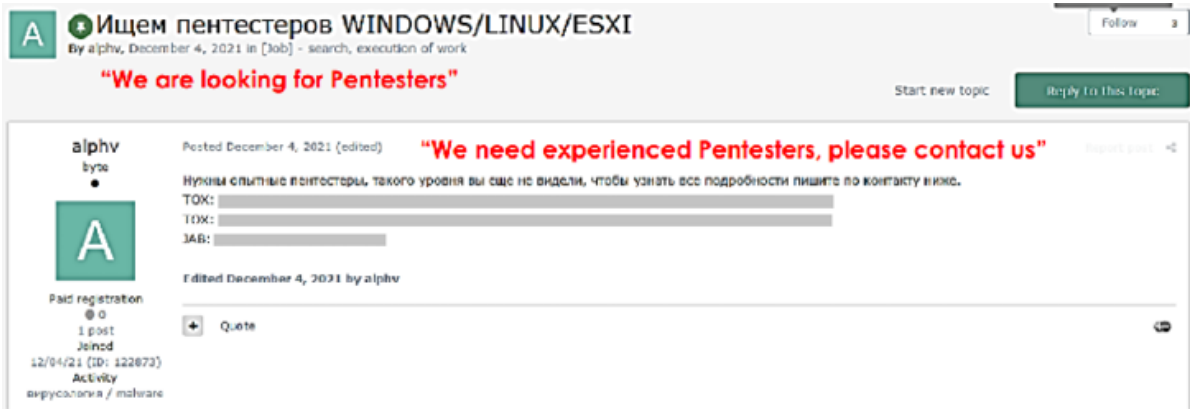


Figure 4: ALPHV/BlackCat recruitment advert on Exploit forum.

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Once an organization is in position to monitor the cybercrime underground, they can gain invaluable insights into the types of services, tools, and access that cybercriminals trade on the underground. Leveraging that knowledge to augment threat-informed defense programs can boost the chances of your organization withstanding the next intrusion attempt.

The outputs from a cybercrime intelligence program as an enterprise can include, custom detection rules, discoveries made during threat hunts, reimplemented processes based on exploitation methods, targeting of partners, subsidiaries, or suppliers; and predictions based on the current trends. All these outputs will contribute toward preventing breaches and can support resource and investment prioritization strategies if leveraged effectively.

The cybercrime underground is an additional dataset and telemetry for organizations to hunt through for their own benefit and look for threats towards their organization, technology stack, and suppliers.

Recommended Best Practices

There are various best practices that enterprise security teams can follow to defend against SCATTERED SPIDER and The Com, which are as follows:

- Leverage [phishing-resistant MFA](#) to mitigate the identity-based attacks, such as SMS phishing, SIM swapping, and other social engineering methods members of The Com utilize.
- Mitigate the [risks surrounding RMM tools](#) to mitigate the host-based activities performed using RMMs by members of The Com.
- Leverage [Microsoft's recommended driver block list](#) to mitigate the BYOVD and malicious signed driver techniques deployed by members of The Com.
- Follow Recorded Future's advice on how adversaries [leverage legitimate internet services](#) to evade network security systems for command-and-control (C2) activities.
- To better prepare for SCATTERED SPIDER attacks, organizations can perform a [Tabletop Exercise \(TTX\)](#) with executives and incident responders that simulates responding to the TTPs commonly associated with The Com. This could include an intrusion involving SMS phishing, SIM swapping, IT helpdesk social engineering, deactivated EDR systems, exfiltrated sensitive files, and ransomware deployment.
- Microsoft has also [shared a playbook](#) for defenders to mitigate Octo Tempest (their name for SCATTERED SPIDER) attacks involving cloud infrastructure and Entra ID (formerly known as Azure Active Directory or AAD for short).

In conclusion, defending against sophisticated cybercriminal groups like SCATTERED SPIDER and The Com requires a proactive and comprehensive approach. By understanding their TTPs and continuously monitoring the cybercrime underground, organizations can significantly enhance their cyber defense strategies. *SANS FOR589: Cybercrime Intelligence* is designed to equip you with the skills and knowledge needed to identify, track, and counter these threats effectively. Don't wait for an attack to occur—take the initiative to safeguard your organization today.

Sign up for a demo or register for *FOR589: Cybercrime Intelligence* now and become adept at generating actionable intelligence to defend against the most notorious cyber threats.

Tags: [Digital Forensics, Incident Response & Threat Hunting](#)

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