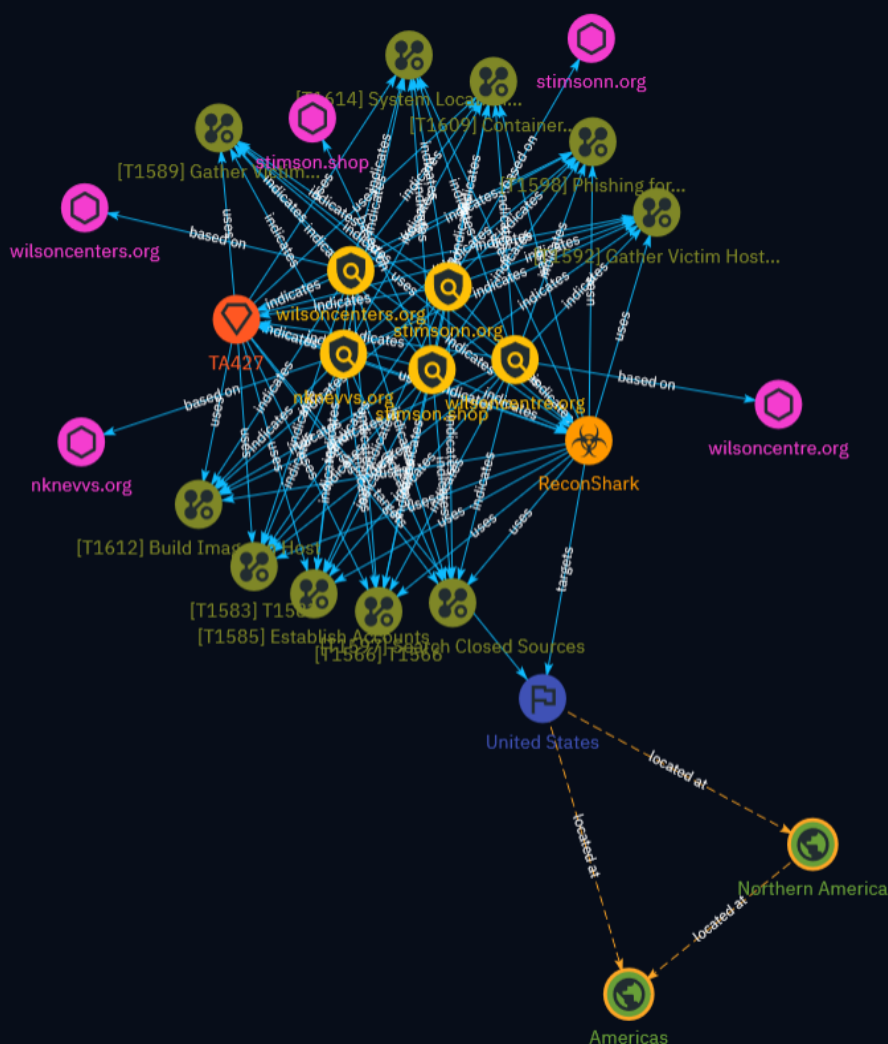


# NETMANAGEIT

## Intelligence Report

# From Social Engineering to DMARC Abuse: The Art of Information Gathering



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# Overview

## Description

The report details the tactics employed by the threat actor group TA427, also known as Emerald Sleet or APT43, which is believed to be aligned with North Korea's Reconnaissance General Bureau. TA427 engages in prolonged social engineering campaigns, using benign conversation starters to initiate contact with targets and establish rapport over extended periods. They frequently impersonate personas from think tanks, non-governmental organizations, media, academia, and government entities to increase credibility and legitimize their requests for information and engagement. The group leverages tactics such as DMARC abuse, typosquatting, and private email account spoofing to craft convincing personas. Additionally, TA427 has recently incorporated the use of web beacons for initial reconnaissance and target profiling. The objective of these campaigns appears to be gathering strategic intelligence on U.S. and South Korean foreign policy initiatives to inform North Korea's negotiation tactics.

## Confidence

*This value represents the confidence in the correctness of the data contained within this report.*

100 / 100

# Content

N/A

# Indicator

## Name

wilsoncentre.org

## Description

- **Unsafe:** False - **Server:** N/A - **Domain Rank:** 0 - **DNS Valid:** False - **Parking:** False - **Spamming:** False - **Malware:** False - **Phishing:** False - **Suspicious:** True - **Adult:** False - **Category:** N/A - **Domain Age:** {'human': '2 months ago', 'timestamp': 1706929100, 'iso': '2024-02-02T21:58:20-05:00'} - **IPQS: Domain:** wilsoncentre.org - **IPQS: IP Address:** N/A

## Pattern Type

stix

## Pattern

[domain-name:value = 'wilsoncentre.org']

## Name

stimsonn.org

## Description

- **Unsafe:** False - **Server:** N/A - **Domain Rank:** 0 - **DNS Valid:** False - **Parking:** False - **Spamming:** False - **Malware:** False - **Phishing:** False - **Suspicious:** True - **Adult:** False - **Category:** N/A - **Domain Age:** {'human': '8

months ago', 'timestamp': 1691907838, 'iso': '2023-08-13T02:23:58-04:00'} - \*\*IPQS: Domain:\*\*  
stimsonn.org - \*\*IPQS: IP Address:\*\* N/A

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'stimsonn.org']

**Name**

wilsoncenters.org

**Description**

- \*\*Unsafe:\*\* False - \*\*Server:\*\* N/A - \*\*Domain Rank:\*\* 0 - \*\*DNS Valid:\*\* False -  
\*\*Parking:\*\* False - \*\*Spamming:\*\* False - \*\*Malware:\*\* False - \*\*Phishing:\*\* False -  
\*\*Suspicious:\*\* True - \*\*Adult:\*\* False - \*\*Category:\*\* N/A - \*\*Domain Age:\*\* {'human': '2  
months ago', 'timestamp': 1708564091, 'iso': '2024-02-21T20:08:11-05:00'} - \*\*IPQS: Domain:\*\*  
wilsoncenters.org - \*\*IPQS: IP Address:\*\* N/A

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'wilsoncenters.org']

**Name**

stimson.shop

**Description**

- **Unsafe:** False - **Server:** gws - **Domain Rank:** 1 - **DNS Valid:** True - **Parking:** False - **Spamming:** False - **Malware:** False - **Phishing:** False - **Suspicious:** False - **Adult:** False - **Category:** Search Engines - **Domain Age:** {'human': '1 minute ago', 'timestamp': 1713261640, 'iso': '2024-04-16T06:00:40-04:00'} - **IPQS:** Domain: google.com - **IPQS:** IP Address: 142.250.105.99

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'stimson.shop']

**Name**

nknews.org

**Description**

- **Unsafe:** False - **Server:** cloudflare - **Domain Rank:** 47965 - **DNS Valid:** True - **Parking:** False - **Spamming:** False - **Malware:** False - **Phishing:** False - **Suspicious:** False - **Adult:** False - **Category:** News - **Domain Age:** {'human': '11 months ago', 'timestamp': 1684032199, 'iso': '2023-05-13T22:43:19-04:00'} - **IPQS:** Domain: nknews.org - **IPQS:** IP Address: 104.26.13.15

**Pattern Type**

stix

**Pattern**

[domain-name:value = 'nknews.org']



# Intrusion-Set

**Name**

TA427

# Malware

Name
ReconShark

# Attack-Pattern

## Name

Phishing for Information

## ID

T1598

## Description

Adversaries may send phishing messages to elicit sensitive information that can be used during targeting. Phishing for information is an attempt to trick targets into divulging information, frequently credentials or other actionable information. Phishing for information is different from [Phishing](<https://attack.mitre.org/techniques/T1566>) in that the objective is gathering data from the victim rather than executing malicious code. All forms of phishing are electronically delivered social engineering. Phishing can be targeted, known as spearphishing. In spearphishing, a specific individual, company, or industry will be targeted by the adversary. More generally, adversaries can conduct non-targeted phishing, such as in mass credential harvesting campaigns. Adversaries may also try to obtain information directly through the exchange of emails, instant messages, or other electronic conversation means.(Citation: ThreatPost Social Media Phishing)(Citation: TrendMicro Phishing)(Citation: PCMag FakeLogin)(Citation: Sophos Attachment)(Citation: GitHub Phishery) Victims may also receive phishing messages that direct them to call a phone number where the adversary attempts to collect confidential information.(Citation: Avertium callback phishing) Phishing for information frequently involves social engineering techniques, such as posing as a source with a reason to collect information (ex: [Establish Accounts](<https://attack.mitre.org/techniques/T1585>) or [Compromise Accounts](<https://attack.mitre.org/techniques/T1586>)) and/or sending multiple, seemingly urgent messages. Another way to accomplish this is by forging or spoofing(Citation: Proofpoint-spoof) the identity of the sender which can be used to fool both the human recipient as well as automated security tools.(Citation: cyberproof-double-bounce)

Phishing for information may also involve evasive techniques, such as removing or manipulating emails or metadata/headers from compromised accounts being abused to send messages (e.g., [Email Hiding Rules](https://attack.mitre.org/techniques/T1564/008)). (Citation: Microsoft OAuth Spam 2022)(Citation: Palo Alto Unit 42 VBA Infostealer 2014)

**Name**

Establish Accounts

**ID**

T1585

**Description**

Adversaries may create and cultivate accounts with services that can be used during targeting. Adversaries can create accounts that can be used to build a persona to further operations. Persona development consists of the development of public information, presence, history and appropriate affiliations. This development could be applied to social media, website, or other publicly available information that could be referenced and scrutinized for legitimacy over the course of an operation using that persona or identity. (Citation: NEWSCASTER2014)(Citation: BlackHatRobinSage) For operations incorporating social engineering, the utilization of an online persona may be important. These personas may be fictitious or impersonate real people. The persona may exist on a single site or across multiple sites (ex: Facebook, LinkedIn, Twitter, Google, GitHub, Docker Hub, etc.). Establishing a persona may require development of additional documentation to make them seem real. This could include filling out profile information, developing social networks, or incorporating photos.(Citation: NEWSCASTER2014)(Citation: BlackHatRobinSage) Establishing accounts can also include the creation of accounts with email providers, which may be directly leveraged for [Phishing for Information](https://attack.mitre.org/techniques/T1598) or [Phishing](https://attack.mitre.org/techniques/T1566).(Citation: Mandiant APT1)

**Name**

System Location Discovery

**ID**

T1614

**Description**

Adversaries may gather information in an attempt to calculate the geographical location of a victim host. Adversaries may use the information from [System Location Discovery] (<https://attack.mitre.org/techniques/T1614>) during automated discovery to shape follow-on behaviors, including whether or not the adversary fully infects the target and/or attempts specific actions. Adversaries may attempt to infer the location of a system using various system checks, such as time zone, keyboard layout, and/or language settings. (Citation: FBI Ragnar Locker 2020)(Citation: Sophos Geolocation 2016)(Citation: Bleepingcomputer RAT malware 2020) Windows API functions such as `GetLocaleInfoW`` can also be used to determine the locale of the host.(Citation: FBI Ragnar Locker 2020) In cloud environments, an instance's availability zone may also be discovered by accessing the instance metadata service from the instance.(Citation: AWS Instance Identity Documents) (Citation: Microsoft Azure Instance Metadata 2021) Adversaries may also attempt to infer the location of a victim host using IP addressing, such as via online geolocation IP-lookup services.(Citation: Securelist Trasparent Tribe 2020)(Citation: Sophos Geolocation 2016)

**Name**

Search Closed Sources

**ID**

T1597

**Description**

Adversaries may search and gather information about victims from closed sources that can be used during targeting. Information about victims may be available for purchase from reputable private sources and databases, such as paid subscriptions to feeds of technical/threat intelligence data.(Citation: D3Securtrity CTI Feeds) Adversaries may also purchase information from less-reputable sources such as dark web or cybercrime blackmarkets.(Citation: ZDNET Selling Data) Adversaries may search in different closed databases depending on what information they seek to gather. Information from these sources may reveal opportunities for other forms of reconnaissance (ex: [Phishing for Information](<https://attack.mitre.org/techniques/T1598>) or [Search Open Websites/ Domains](<https://attack.mitre.org/techniques/T1593>)), establishing operational resources

(ex: [Develop Capabilities](https://attack.mitre.org/techniques/T1587) or [Obtain Capabilities](https://attack.mitre.org/techniques/T1588)), and/or initial access (ex: [External Remote Services](https://attack.mitre.org/techniques/T1133) or [Valid Accounts](https://attack.mitre.org/techniques/T1078)).

**Name**

Build Image on Host

**ID**

T1612

**Description**

Adversaries may build a container image directly on a host to bypass defenses that monitor for the retrieval of malicious images from a public registry. A remote `build` request may be sent to the Docker API that includes a Dockerfile that pulls a vanilla base image, such as alpine, from a public or local registry and then builds a custom image upon it. (Citation: Docker Build Image) An adversary may take advantage of that `build` API to build a custom image on the host that includes malware downloaded from their C2 server, and then they may utilize [Deploy Container](https://attack.mitre.org/techniques/T1610) using that custom image. (Citation: Aqua Build Images on Hosts) (Citation: Aqua Security Cloud Native Threat Report June 2021) If the base image is pulled from a public registry, defenses will likely not detect the image as malicious since it's a vanilla image. If the base image already resides in a local registry, the pull may be considered even less suspicious since the image is already in the environment.

**Name**

Container Administration Command

**ID**

T1609

**Description**

Adversaries may abuse a container administration service to execute commands within a container. A container administration service such as the Docker daemon, the Kubernetes API server, or the kubelet may allow remote management of containers within an environment.(Citation: Docker Daemon CLI)(Citation: Kubernetes API)(Citation: Kubernetes Kubelet) In Docker, adversaries may specify an entrypoint during container deployment that executes a script or command, or they may use a command such as `docker exec` to execute a command within a running container.(Citation: Docker Entrypoint)(Citation: Docker Exec) In Kubernetes, if an adversary has sufficient permissions, they may gain remote execution in a container in the cluster via interaction with the Kubernetes API server, the kubelet, or by running a command such as `kubectl exec`.(Citation: Kubectl Exec Get Shell)

**Name**

T1566

**ID**

T1566

**Description**

Adversaries may send phishing messages to gain access to victim systems. All forms of phishing are electronically delivered social engineering. Phishing can be targeted, known as spearphishing. In spearphishing, a specific individual, company, or industry will be targeted by the adversary. More generally, adversaries can conduct non-targeted phishing, such as in mass malware spam campaigns. Adversaries may send victims emails containing malicious attachments or links, typically to execute malicious code on victim systems. Phishing may also be conducted via third-party services, like social media platforms. Phishing may also involve social engineering techniques, such as posing as a trusted source, as well as evasive techniques such as removing or manipulating emails or metadata/headers from compromised accounts being abused to send messages (e.g., [Email Hiding Rules](https://attack.mitre.org/techniques/T1564/008)).(Citation: Microsoft OAuth Spam 2022)(Citation: Palo Alto Unit 42 VBA Infostealer 2014) Another way to accomplish this is by forging or spoofing(Citation: Proofpoint-spoof) the identity of the sender which can be used to fool both the human recipient as well as automated security tools.(Citation: cyberproof-double-bounce) Victims may also receive phishing messages that instruct them to call a phone number where they are directed to visit a malicious URL, download malware,(Citation: sygnia Luna Month)(Citation: CISA Remote Monitoring and Management Software) or install adversary-accessible remote management tools onto

their computer (i.e., [User Execution](https://attack.mitre.org/techniques/T1204)).(Citation: Unit42 Luna Moth)

**Name**

Gather Victim Identity Information

**ID**

T1589

**Description**

Adversaries may gather information about the victim's identity that can be used during targeting. Information about identities may include a variety of details, including personal data (ex: employee names, email addresses, etc.) as well as sensitive details such as credentials. Adversaries may gather this information in various ways, such as direct elicitation via [Phishing for Information](https://attack.mitre.org/techniques/T1598). Information about users could also be enumerated via other active means (i.e. [Active Scanning](https://attack.mitre.org/techniques/T1595)) such as probing and analyzing responses from authentication services that may reveal valid usernames in a system. (Citation: GrimBlog UsernameEnum) Information about victims may also be exposed to adversaries via online or other accessible data sets (ex: [Social Media](https://attack.mitre.org/techniques/T1593/001) or [Search Victim-Owned Websites](https://attack.mitre.org/techniques/T1594)).(Citation: OPM Leak)(Citation: Register Deloitte)(Citation: Register Uber)(Citation: Detectify Slack Tokens)(Citation: Forbes GitHub Creds)(Citation: GitHub truffleHog)(Citation: GitHub Gitrob)(Citation: CNET Leaks) Gathering this information may reveal opportunities for other forms of reconnaissance (ex: [Search Open Websites/Domains](https://attack.mitre.org/techniques/T1593) or [Phishing for Information](https://attack.mitre.org/techniques/T1598)), establishing operational resources (ex: [Compromise Accounts](https://attack.mitre.org/techniques/T1586)), and/or initial access (ex: [Phishing](https://attack.mitre.org/techniques/T1566) or [Valid Accounts](https://attack.mitre.org/techniques/T1078)).

**Name**

Gather Victim Host Information

**ID**



T1592

**Description**

Adversaries may gather information about the victim's hosts that can be used during targeting. Information about hosts may include a variety of details, including administrative data (ex: name, assigned IP, functionality, etc.) as well as specifics regarding its configuration (ex: operating system, language, etc.). Adversaries may gather this information in various ways, such as direct collection actions via [Active Scanning](<https://attack.mitre.org/techniques/T1595>) or [Phishing for Information](<https://attack.mitre.org/techniques/T1598>). Adversaries may also compromise sites then include malicious content designed to collect host information from visitors.(Citation: ATT ScanBox) Information about hosts may also be exposed to adversaries via online or other accessible data sets (ex: [Social Media](<https://attack.mitre.org/techniques/T1593/001>) or [Search Victim-Owned Websites](<https://attack.mitre.org/techniques/T1594>)). Gathering this information may reveal opportunities for other forms of reconnaissance (ex: [Search Open Websites/Domains](<https://attack.mitre.org/techniques/T1593>) or [Search Open Technical Databases](<https://attack.mitre.org/techniques/T1596>)), establishing operational resources (ex: [Develop Capabilities](<https://attack.mitre.org/techniques/T1587>) or [Obtain Capabilities](<https://attack.mitre.org/techniques/T1588>)), and/or initial access (ex: [Supply Chain Compromise](<https://attack.mitre.org/techniques/T1195>) or [External Remote Services](<https://attack.mitre.org/techniques/T1133>)).

**Name**

T1583

**ID**

T1583

**Description**

Adversaries may buy, lease, or rent infrastructure that can be used during targeting. A wide variety of infrastructure exists for hosting and orchestrating adversary operations. Infrastructure solutions include physical or cloud servers, domains, and third-party web services.(Citation: TrendmicroHideoutsLease) Additionally, botnets are available for rent or purchase. Use of these infrastructure solutions allows adversaries to stage, launch, and execute operations. Solutions may help adversary operations blend in with traffic that is

seen as normal, such as contacting third-party web services or acquiring infrastructure to support [Proxy](<https://attack.mitre.org/techniques/T1090>), including from residential proxy services.(Citation: amnesty\_nso\_pegasus)(Citation: FBI Proxies Credential Stuffing) (Citation: Mandiant APT29 Microsoft 365 2022) Depending on the implementation, adversaries may use infrastructure that makes it difficult to physically tie back to them as well as utilize infrastructure that can be rapidly provisioned, modified, and shut down.

# Country

## Name

United States

# Region

## Name

Northern America

## Name

Americas

# Domain-Name

**Value**

stimson.shop

wilsoncentre.org

wilsoncenters.org

stimsonn.org

nknews.org

# External References

- 
- <https://www.proofpoint.com/us/blog/threat-insight/social-engineering-dmarc-abuse-ta427s-art-information-gathering>
- 
- <https://otx.alienvault.com/pulse/661e48b7d6bfe8f30758990d>