

A Guide to Scattered Spider Data Breaches

By brendon

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The Vulnerability Scattered Spider Hackers Exploit

Usually, Scattered Spider exploits CVE-2015-2291 with tools like STONESTOP and POORTRY.

CVE-2015-2291 is an Intel Ethernet diagnostics driver for Windows (iqvw64.sys) vulnerability.

It allows local users to cause either a denial of service or execute arbitrary code with kernel privileges through a crafted IOCTL call.

A scattered Spider exploits this CVE-2015-2291 vulnerability to deploy a malicious kernel driver in the Intel Ethernet diagnostics for Windows (iqvw64.sys).

The group has also exploited CVE-2021-35464.

It is a flaw in the ForgeRock AM server. The ForgeRock AM server versions before 7.0 have a Java deserialization vulnerability in the jato.pageSession parameter on multiple pages.

This vulnerability exploitation doesn't require authentication. You can trigger the remote code execution by sending a single crafted request to the server.

But Why Does this Vulnerability Occur?

The vulnerability occurs because of the usage of Sun ONE Application Framework (JATO) found in Java 8 or earlier versions.

The group has exploited the CVE-2021-35464 vulnerability to run code and boost its privileges on the Apache Tomcat user on an AWS instance. Scattered Spider used a compromised AWS token to request and assume permissions for an instance role.

The group has showcased an in-depth understanding of the Azure environment and leverages built-in tools for their attacks.

Scattered Spider and Its Web of Data Breaches

Scattered Spider has been active since May 2022 and targets Telecom and Business Process Operations (BPO) organizations across eight sectors, including

1. Canada
2. US
3. UK

4. Australia
5. Brazil
6. France
7. Switzerland
8. Japan

Per the cybersecurity research group's CrowdStrike 2023, Global Threat Report, Scattered Spider is known for stealing sensitive data and leveraging trusted organizational infrastructure for further attacks on downstream customers.

Initially, the **Scattered Spider victims** were from the Telecom and BPO sectors; however, in January 2023, Scattered Spider changed their tactic and became involved in over half a dozen incidents from mid-2022. Large outsourcing firms that served high-value cryptocurrency institutions and individuals were targeted during this period.

Recently, they moved on from their traditional target sectors and made news with their attacks on two high-profile casinos, [MGM Resorts and Ceasars](#) in the US.

With the immense knowledge of European businesses, the group is highly focused on stealing large amounts of sensitive data for extortion.

Data Theft is the Primary Focus

The group is highly focused on stealing sensitive data from the victim's legitimate account.

Personal Identification information theft is their primary focus as PII gives them undeterred access to the organization's sensitive data, and they can steal the confidential data without creating a security alert.

As stated earlier, the group is focused on stealing the authentic credentials of employees and users to gain legitimate access to the organization's network. While the Scattered Spider group is financially motivated, data theft is their primary focus. Reason:

The stolen data is used for further attacks on an organization; as it is legitimate data, it evades regular alerts.

Key Preventive Measures

1. Regularly Update their Software

It is imperative to keep your software updated all the time you get an update alert. The alerts carry the patches that help protect your software against any vulnerability.

2. User Training and Guidance

It is essential for your organization to impart custom-made training and offer guidance to all users. It will avoid any human error on their part.

3. Antivirus and Antimalware

Invest in good antivirus and antimalware to protect against any viruses or malware threats.

4. Behavior Prevention on Endpoint

There should be security controls implemented at the Endpoint to identify and prevent the execution of any malicious files.

5. Application Isolation and Sandboxing

Any corrupted application should be isolated and sandboxed to prevent the malware from spreading across the network.

6. IAM Resilience

Having robust Identity and Access Management (IAM) resilience capabilities such as automated backup and recovery, continuous data verification, and Point-in-Time investigation and restoration is paramount.

Conclusion

Scattered Spider is an emerging threat to organizations with unpatched vulnerabilities and weak admin passwords. To protect your organization from threats of Scattered Spider, it is recommended to scrutinize every legitimate login activity and to get multi-factor authentication approvals from assets, locations, and accounts that are unexpected.

By leveraging AcSense's comprehensive IAM resilience platform, you can significantly fortify your IAM systems against the nefarious tactics employed by groups like Scattered Spider.

[Schedule a demo](#) to learn how AcSense can help bullet-proof your cloud IAM and ensure rapid recovery.

FAQs:

1. What are the common signs and symptoms of a Scattered Spider data breach?

The Scattered Spider Group is an expert in evading detection. Here are some common indicators of ongoing data breaches:

- Sudden changes in files
- User accounts are locked
- Device speed goes down, and network performance is affected
- Your system behaves abnormally
- Unusual account activity

2. How can I protect sensitive customer information from Scattered Spider attacks?

You can protect your customers' sensitive information through sandboxing.

It makes it difficult for intruders to advance their operations by exploiting undiscovered or unpatched vulnerabilities. Other types of virtualizations and application micro-segmentation may also mitigate the impact of some kinds of exploitation.

3. What are a Scattered Spider data breach's potential legal and regulatory consequences?

The potential legal and regulatory consequences of a Scattered Spider data breach can lead to fines, penalties, and even lawsuits. It implies there will be additional expenditure over and above the cost of downtime and production, and not to forget the ransomware cost, should the group demand the same.

4. What steps should I take immediately after discovering a Scattered Spider data breach?

After a Scattered Spider data breach, the first step would be to isolate the infected device and the network to mitigate further damage. Mitigation steps should also involve limiting the installation of unapproved software.

5. What type of data is typically targeted in Scattered Spider data breaches?

Scattered Spider hackers are known to steal sensitive and confidential data from their victims.

The stolen data or credentials are then used for follow-on attacks on environments outside the victims' proximity.

Source: <https://acsense.com/blog/a-guide-to-scattered-spider-data-breaches/>