

# Security Advisory Report - OBSO-2112-01

## Critical vulnerability in Apache Log4j (Log4Shell, CVE-2021-44228)

Release Date: 2021-12-13 18:42:27

Last Update: 2021-12-14 21:29:36

### Summary

Apache Log4j2 <= 2.14.1 has a JNDI feature that allows it to look up the contents of a log message by using a name, via the LDAP protocol. Unfortunately though, it doesn't protect against attacker-controlled LDAP endpoints, which means that if an attacker can control log messages (or log message parameters) they can trigger a lookup to a malicious LDAP server, and subsequent loading and execution of arbitrary Java code.

The vulnerability is rated critical with an initial CVSS3 score of 10.(NVD has not been assigned a score yet)

### Details

#### Key Takeaways

- Vulnerability is present in all applications embedding Log4j (ver. 2.0 to 2.14.1.) for audit logging feature. Mainly Apache stack but also applications like Elastic search, Redis, etc.
- Vulnerability based on forcing applications to log a specific string which forces vulnerable system to download and run malicious script from attacker-controlled domain.
- According to security researchers' apps and services across the globe has already been actively scanned for vulnerable versions of Log4j by malicious actors.
- Attack can be blocked with a config change and patch.
- Cisco Talos claims to observe threats such as [Mirai](#) attempting to leverage this vulnerability to automatically infect new systems.

### Affected Products

#### Confirmed Affected products

Hipath DS-Win 4 R6.29.0 and higher (fixed in V4 R6.31.0 / available)

Atos Unify OpenScape UC V10.2.9.0 and higher (fix planned for V10.3.10)

Atos Unify First Response OpenScape Policy Store (fix planned for 01/2022)

Atos Unify OpenScape Voice (simplex deployments, fix for embedded OS UC planned for V10 R2)

Atos Unify OpenScape Contact Center V9 and higher

Atos Unify OpenScape Contact Media Service V9 and higher

**Confirmed not affected products**

## Circuit

Atos Unify OpenScape SBC  
Atos Unify OpenScape Branch  
Atos Unify OpenScape BCF  
Atos Unify OpenScape Desk Phones / OpenStage Phones  
Atos Unify First Response Emergency Services Application  
Atos Unify OpenScape Cordless IP  
Atos Unify OpenScape Voice Trace Manager  
Atos Unify OpenScape 4000 and Manager  
Atos Unify OpenScape Alarm Response  
Atos Unify OpenScape Xpert Clients  
Atos Unify OpenScape Xpert MLC  
Atos Unify OpenScape Xpert System Manager  
Atos Unify OpenScape Accounting Management  
Atos Unify OpenScape Deployment Service  
Atos Unify OpenScape Common Management Portal  
Atos Unify OpenScape Composer  
Atos Unify OpenScape Backup & Recovery  
Atos Unify OpenScape Business  
Atos Unify OpenScape UC Clients  
Atos Unify OpenScape Xpressions  
Atos Unify OpenScape Media Server  
Atos Unify First Response MSBF  
Atos Unify First Response Gemma V2 and V3  
Atos Unify Office  
Atos Unify OpenScape ESRP  
Atos Unify OpenScape Concierge  
Atos Unify OpenScape Voice (except simplex deployments)  
Atos Unify OpenScape License Management CLA/CLM  
Circuit Meeting Room  
Atos Unify OpenScape Fault Management  
Atos Unify OpenScape DECT Phones S6/SL6  
Atos Unify OpenScape WLAN Phone Wireless Service Gateway  
Atos Unify OpenScape WLAN Phone WL4  
Atos Unify OpenScape Sesap  
Atos Unify OpenScape Contact Center Extensions V3R1

**Products under investigation**

Atos Unify OpenScape Enterprise Express

**Recommended Actions****General Recommendations:**

- Focus on internet connected systems first
- Check whether system is running log4j version 2.0 to 2.14.1
- For non-Atos Unify products contact your system or software vendor to validate if log4j is in use and if any additional actions are required

### For affected Atos Unify products

- Check whether a system may be compromised. To detect compromise, perform log check as following [link](#)
- If you have network monitoring tools in place implements suitable rules in order to detect potential attacks
- If you identify a system being compromised report it to the respective Security Officer or IT manager and consider disconnecting it from the network

### Workarounds:

- There is a workaround available for OpenScope V10 and OpenScope Voice V10 (simplex deployment) described in the [Knowledge Base Article KB000102509](#) within the Support Portal (AWSP, registered users only)

## References

### Important links:

<https://www.lunasec.io/docs/blog/log4j-zero-day/>  
<https://github.com/lunasec-io/lunasec/blob/master/docs/blog/2021-12-09-log4j-zero-day.md>  
<https://twitter.com/P0rZ9/status/1468949890571337731>  
<https://logging.apache.org/log4j/2.x/download.html>  
<https://github.com/Neo23x0/log4shell-detector>  
<https://www.tenable.com/cve/CVE-2021-44228>  
[https://supportcenter.us.checkpoint.com/supportcenter/portal?eventSubmit\\_doGoviewsolutiondetails=&solutionid=sk176884](https://supportcenter.us.checkpoint.com/supportcenter/portal?eventSubmit_doGoviewsolutiondetails=&solutionid=sk176884)  
<https://blog.netlab.360.com/threat-alert-log4j-vulnerability-has-been-adopted-by-two-linux-botnets/>

### General 3rd party Advisories:

<https://www.ringcentral.com/trust-center/security-bulletin.html>  
<https://support.polycom.com/content/dam/polycom-support/global/documentation/plygn21-08-poly-systems-apache.pdf>  
<https://github.com/apache/logging-log4j2/pull/608>  
<https://github.com/apache/logging-log4j2/releases/tag/log4j-2.15.0-rc1>  
<https://twitter.com/JLLeitschuh/status/1469148466341416964>  
<https://www.cnblogs.com/yyhuni/p/15088134.html>  
<https://www.veracode.com/blog/research/exploiting-jndi-injections-java>  
<https://issues.apache.org/jira/browse/LOG4J2-2109>

<https://therecord.media/log4j-zero-day-gets-security-fix-just-as-scans-for-vulnerable-systems-ramp-up/>  
<https://twitter.com/GossiTheDog/status/1469248250670727169>  
<https://gist.github.com/Neo23x0/e4c8b03ff8cdf1fa63b7d15db6e3860b>  
<https://blog.cloudflare.com/inside-the-log4j2-vulnerability-cve-2021-44228/>  
<https://github.com/apache/logging-log4j2/releases/tag/log4j-2.15.0-rc2>  
<https://logging.apache.org/log4j/2.x/download.html>  
<https://www.darkreading.com/dr-tech/what-to-do-while-waiting-for-the-log4ju-updates>  
<https://dev.classmethod.jp/articles/aws-waf-new-rule-log4jrce/>  
<https://docs.aws.amazon.com/waf/latest/developerguide/web-request-body-inspection.html>  
<https://www.microsoft.com/security/blog/2021/12/11/guidance-for-preventing-detecting-and-hunting-for-cve-2021-44228-log4j-2-exploitation/>  
[https://gist.github.com/usercontent/c546c7911d5f876f263309d7161a7217/raw/3a61de8f5d9e74efdfa05cf0bf793e7ca6409bd/CVE-2021-44228\\_IPs.csv](https://gist.github.com/usercontent/c546c7911d5f876f263309d7161a7217/raw/3a61de8f5d9e74efdfa05cf0bf793e7ca6409bd/CVE-2021-44228_IPs.csv)  
<https://msrc-blog.microsoft.com/2021/12/11/microsofts-response-to-cve-2021-44228-apache-log4j2/?s=09>  
<https://security-tracker.debian.org/tracker/CVE-2021-44228>  
<https://www.suse.com/security/cve/CVE-2021-44228.html>  
<https://www.suse.com/c/suse-statement-on-log4j-log4shell-cve-2021-44228-vulnerability/>

**National Advisories:**

<https://www.ncsc.gov.uk/news/apache-log4j-vulnerability>  
<https://www.cisa.gov/news/2021/12/11/statement-cisa-director-easterly-log4j-vulnerability>  
<https://www.jpccert.or.jp/at/2021/at210050.html>  
<https://www.cert.govt.nz/it-specialists/advisories/log4j-rce-0-day-actively-exploited>  
<https://nvd.nist.gov/vuln/detail/CVE-2021-44228>  
<https://www.cert.govt.nz/it-specialists/advisories/log4j-rce-0-day-actively-exploited/>

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Advisory: OBSO-2112-01, status: general release

Security Advisories are released as part of Atos Unify's Vulnerability Intelligence Process. For more information see <https://www.unify.com/security/advisories>.

Contact and Disclaimer

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