

KYLIN-5689 Kylin5本地调试 和 使用诊断包中的元数据进行调试

1. 环境准备

Name: Kylin Local

☒ Store as project file

Run on: Local machine

Manage targets...

Run configurations may be executed locally or on a target: for example in a Docker Container or on a remote host using SSH.

Build and run

Modify options

java 8 SDK of 'kylin-server'

-cp kylin-server

-Dspring.profiles.active=dev -Dhdp.version=current -Dspark.local=true -Dkylin.server.mor

org.apache.kylin.rest.BootstrapServer

Press `⌘` for field hints

Active profiles:

Comma separated list of profiles

Working directory:

%MODULE_WORKING_DIR%

Environment variables:

nce/kylin;SPARK_HOME=/Users/.../kylin/build/spark

Separate variables with semicolon: VAR=value; VAR1=value1

Open run/debug tool window when started

Add dependencies with "provided" scope to classpath

Cancel

Apply

OK

完整配置文件参考

```
1 <component name="ProjectRunConfigurationManager">
2   <configuration default="false" name="Kylin Local" type="SpringBootApplicationC
3     <envs>
4       <env name="KYLIN_CONF" value="$PROJECT_DIR$/src/examples/test_case_data/lo
5       <env name="KYLIN_HOME" value="$PROJECT_DIR$" />
6       <env name="SPARK_HOME" value="$PROJECT_DIR$/build/spark" />
```

```

7     </envs>
8     <module name="kylin-server" />
9     <option name="SPRING_BOOT_MAIN_CLASS" value="org.apache.kylin.rest.Bootstrap
10    <option name="VM_PARAMETERS" value="-Dspring.profiles.active=dev -Dhdp.versi
11    <option name="WORKING_DIRECTORY" value="file://%MODULE_WORKING_DIR%" />
12    <method v="2">
13        <option name="Make" enabled="true" />
14    </method>
15 </configuration>
16 </component>

```

1.1 环境变量

变量	路径	备注
KYLIN_CONF	/PATH/TO/KYLIN/kylin/src/examples/test_case_data/localmeta	UT中的meta路径
KYLIN_HOME	/PATH/TO/KYLIN	KYLIN代码路径
SPARK_HOME	/PATH/TO/KYLIN/build/spark	

Environment Variables

User environment variables:

+

-

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Name	Value
KYLIN_CONF	/Users/.../kylin/src/examples/tes...
KYLIN_HOME	/Users/.../kylin
SPARK_HOME	/Users/.../kylin/build/spark

☒ Include system environment variables

1.2 启动参数

```

1 -Dspring.profiles.active=dev
2 -Dhdp.version=current
3 -Dspark.local=true
4 -Dkylin.server.mode=all

```

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Build and run Modify options ⌘M

```
-Dspring.profiles.active=dev
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-Dspark.local=true
-Dkylin.server.mode=all
```

Working directory:

Environment variables:

Separate variables with semicolon: VAR=value; VAR1=value1

Open run/debug tool window when started Add dependencies with "provided" scope to classpath

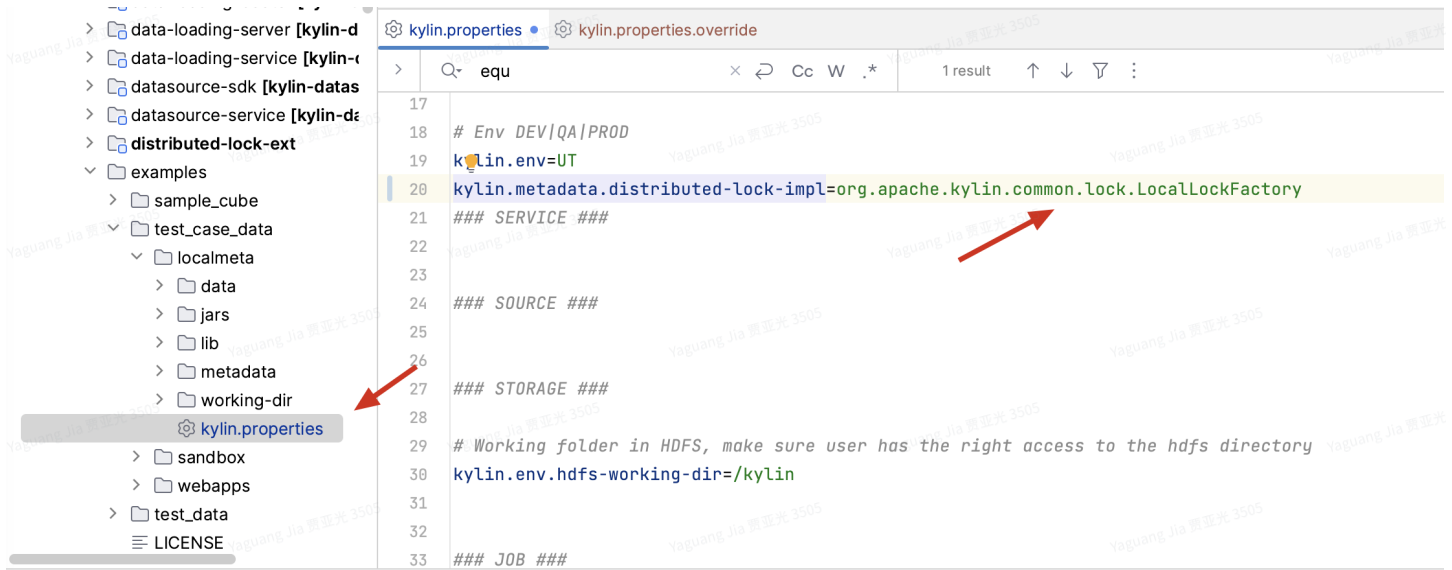
2. 如何本地使用IDEA调试Kylin（不使用sandbox/docker等）

2.1 配置kylin.metadata.distributed-lock-impl

该步骤是为了去除一个zookeeper 的依赖

在KYLIN_CONF (/PATH/TO/KYLIN/kylin/src/examples/test_case_data/localmeta) 下的kylin.properties中添加一个配置。

```
1 kylin.metadata.distributed-lock-impl=org.apache.kylin.common.lock.LocalLockFacto
```



2.2 启动Kylin即可

application.yml 中添加了前端的static-locations配置，可直接访问 <http://127.0.0.1:7070/kylin> 来调试，不需要单独起前端(但是kystudio 下需要有编译好的前端代码)。

3. 如何快速在本地使用IDEA启动Kylin5，查看诊断包中的元数据

3.1 解压诊断包，找到诊断包中的元数据

```
~/Kyligence/full_2023_02_16_11_15_42/metadata/2023-02-16-11-15-43_backup
|
~/Kyligence/full_2023_02_16_11_15_42/metadata/2023-02-16-11-15-43_backup (0.141s)
ll
total 16
-rw-rw-r--@ 1 yaguang.jia 25950964 388 Feb 13 10:59 UUID
drwxr-xr-x@ 8 yaguang.jia 25950964 256B Feb 16 11:16 _global
drwxr-xr-x@ 2 yaguang.jia 25950964 64B May 15 16:38 _health
-rw-rw-r--@ 1 yaguang.jia 25950964 15B Feb 16 11:15 _image
drwxr-xr-x@ 15 yaguang.jia 25950964 480B Feb 16 11:16 datalake_kylin
~/Kyligence/full_2023_02_16_11_15_42/metadata/2023-02-16-11-15-43_backup (0.054s)
pwd
/Users/yaguang.jia/Kyligence/full_2023_02_16_11_15_42/metadata/2023-02-16-11-15-43_backup
```

3.2 配置诊断包元数据到kylin.properties 中

KYLIN_CONF (/PATH/TO/KYLIN/kylin/src/examples/test_case_data/localmeta) 下的 kylin.properties 文件中，配置 kylin.metadata.url 并指定 kylin.env.hdfs-working-dir 到一个目录

- 1 `kylin.metadata.url=/Users/xxx.xxx/full_2023_02_16_11_15_42/metadata/2023-02-16-11-15-43_backup`
- 2 `# kylin.env.hdfs-working-dir` 指定一个临时目录即可
- 3 `kylin.env.hdfs-working-dir=/A/TMP/PATH/FOR/USE`



3.3 在run configuration 中添加 `-Ddev.diag-meta=true`



3.4 启动Kylin即可查看诊断包中元数据

application.yml 中添加了前端的static-locations配置，可直接访问

<http://127.0.0.1:7070/kylin> 来调试，不需要单独起前端。

