

DataX连接ADW测试

先决条件

1. 创建ADW实例
2. 配置ACL和支持TLS连接

网络

访问类型: 允许从指定的 IP 和 VCN 进行安全访问

访问控制列表: 已启用 编辑

Mutual TLS (mTLS) authentication: 不需要 编辑

3. 创建test表

```
create table test (a varchar2(20));
```

测试步骤

1. 下载datax

```
wget http://datax-opensource.oss-cn-hangzhou.aliyuncs.com/datax.tar.gz
```

2. 解压

```
tar -xvzf datax.tar.gz
```

3. 修改oracle driver, 在下面两个目录下, 先备份ojdbc6-11.2.0.3.jar, 再用ojdbc8.jar直接覆盖ojdbc6-11.2.0.3.jar

```
./datax/plugin/reader/oraclereader/libs  
./datax/plugin/writer/oraclewriter/libs
```

4. 生成配置模版

```
cd datax/bin
python datax.py -r oraclereader -w oraclewriter
```

5. 将模版拷贝生成配置文件test.json，修改配置如下：

```
{
  "job": {
    "content": [
      {
        "reader": {
          "name": "oraclereader",
          "parameter": {
            "column": ["a"],
            "connection": [
              {
                "jdbcUrl": ["jdbc:oracle:thin:@(description=
(retry_count=20)(retry_delay=3)(address=(protocol=tcps)(port=1521)(host=adb.ap-
seoul-1.oraclecloud.com))(connect_data=
(service_name=x3flwiw0zp5wynv_ajdtest_high.adb.oraclecloud.com))(security=
(ssl_server_dn_match=yes)))"],
                "table": ["test"]
              }
            ],
            "password": "WelcomePTS_2022#",
            "username": "admin"
          }
        },
        "writer": {
          "name": "oraclewriter",
          "parameter": {
            "column": ["a"],
            "connection": [
              {
                "jdbcUrl": "jdbc:oracle:thin:@(description=
(retry_count=20)(retry_delay=3)(address=(protocol=tcps)(port=1521)(host=adb.ap-
seoul-1.oraclecloud.com))(connect_data=
(service_name=x3flwiw0zp5wynv_ajdtest_high.adb.oraclecloud.com))(security=
(ssl_server_dn_match=yes)))",
                "table": ["test"]
              }
            ],
            "password": "WelcomePTS_2022#",
            "preSql": [],
            "username": "admin"
          }
        }
      ]
    }
  }
}
```

```

        }
    }
    ],
    "setting": {
        "speed": {
            "channel": "5"
        }
    }
}
}
}

```

6. 启动datax

```
$ python datax.py ./test.json
```

DataX (DATAX-OPENSOURCE-3.0), From Alibaba !

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2022-08-20 08:25:41.816 [main] INFO MessageSource - JVM TimeZone: GMT+08:00,
Locale: zh_CN

2022-08-20 08:25:41.819 [main] INFO MessageSource - use Locale: zh_CN timeZone:
sun.util.calendar.ZoneInfo[id="GMT+08:00",offset=28800000,dstSavings=0,useDaylight=
false,transitions=0,lastRule=null]

2022-08-20 08:25:41.877 [main] INFO VMInfo - VMInfo# operatingSystem class =>
com.sun.management.internal.OperatingSystemImpl

2022-08-20 08:25:41.888 [main] INFO Engine - the machine info =>

osInfo: Oracle Corporation 17 17.0.4.1+1-LTS-2

jvmInfo: Linux amd64 5.4.17-2136.309.5.el7uek.x86_64

cpu num: 2

totalPhysicalMemory: -0.00G

freePhysicalMemory: -0.00G

maxFileDescriptorCount: -1

currentOpenFileDescriptorCount: -1

GC Names [G1 Young Generation, G1 Old Generation]

| MEMORY_NAME | allocation_size | init_size |
|------------------------------|-----------------|-----------|
| CodeHeap 'profiled nmethods' | 117.22MB | 2.44MB |
| G1 Old Gen | 1,024.00MB | 970.00MB |
| G1 Survivor Space | -0.00MB | 0.00MB |

| | | |
|----------------------------------|------------|---------|
| CodeHeap 'non-profiled nmethods' | 117.22MB | 2.44MB |
| Compressed Class Space | 1,024.00MB | 0.00MB |
| Metaspace | -0.00MB | 0.00MB |
| G1 Eden Space | -0.00MB | 54.00MB |
| CodeHeap 'non-nmethods' | 5.56MB | 2.44MB |

2022-08-20 08:25:41.908 [main] INFO Engine -

```
{
  "content": [
    {
      "reader": {
        "parameter": {
          "password": "*****",
          "column": [
            "a"
          ],
          "connection": [
            {
              "jdbcUrl": [
                "jdbc:oracle:thin:@(description= (retry_count=20)(retry_delay=3)
(address=(protocol=tcps)(port=1521)(host=adb.ap-seoul-1.oraclecloud.com))
(connect_data=(service_name=x3flwiw0zp5wynv_ajctest_high.adb.oraclecloud.com))
(security=(ssl_server_dn_match=yes)))"
              ],
              "table": [
                "test"
              ]
            }
          ],
          "username": "admin"
        },
        "name": "oraclereader"
      },
      "writer": {
        "parameter": {
          "password": "*****",
          "column": [
            "a"
          ],
          "connection": [
            {
```

```

        "jdbcUrl": "jdbc:oracle:thin:@(description= (retry_count=20)
(retry_delay=3) (address=(protocol=tcps) (port=1521) (host=adb.ap-seoul-
1.oraclecloud.com)) (connect_data=
(service_name=x3flwiw0zp5wynv_ajdtest_high.adb.oraclecloud.com)) (security=
(ssl_server_dn_match=yes)))",
        "table": [
            "test"
        ]
    },
    "preSql": [],
    "username": "admin"
},
"name": "oraclewriter"
}
},
"setting": {
    "speed": {
        "channel": "5"
    }
}
}
}

```

```

2022-08-20 08:25:41.924 [main] WARN Engine - prioriy set to 0, because
NumberFormatException, the value is: null
2022-08-20 08:25:41.925 [main] INFO PerfTrace - PerfTrace traceId=job_-1,
isEnabled=false, priority=0
2022-08-20 08:25:41.926 [main] INFO JobContainer - DataX jobContainer starts job.
2022-08-20 08:25:41.927 [main] INFO JobContainer - Set jobId = 0
2022-08-20 08:25:43.029 [job-0] INFO OriginalConfPretreatmentUtil - Available
jdbcUrl:jdbc:oracle:thin:@(description= (retry_count=20)(retry_delay=3)(address=
(protocol=tcps)(port=1521)(host=adb.ap-seoul-1.oraclecloud.com))(connect_data=
(service_name=x3flwiw0zp5wynv_ajdtest_high.adb.oraclecloud.com))(security=
(ssl_server_dn_match=yes))).
2022-08-20 08:25:43.490 [job-0] INFO OriginalConfPretreatmentUtil - table:[test]
has columns:[A].
2022-08-20 08:25:44.011 [job-0] INFO OriginalConfPretreatmentUtil - table:[test]
all columns:[
A
].
2022-08-20 08:25:44.209 [job-0] INFO OriginalConfPretreatmentUtil - Write data [
INSERT INTO %s (a) VALUES(?)
], which jdbcUrl like:[jdbc:oracle:thin:@(description= (retry_count=20)
(retry_delay=3) (address=(protocol=tcps) (port=1521) (host=adb.ap-seoul-
1.oraclecloud.com)) (connect_data=
(service_name=x3flwiw0zp5wynv_ajdtest_high.adb.oraclecloud.com)) (security=
(ssl_server_dn_match=yes)))]

```

```
2022-08-20 08:25:44.209 [job-0] INFO JobContainer - jobContainer starts to do
prepare ...
2022-08-20 08:25:44.209 [job-0] INFO JobContainer - DataX Reader.Job
[oraclereader] do prepare work .
2022-08-20 08:25:44.210 [job-0] INFO JobContainer - DataX Writer.Job
[oraclewriter] do prepare work .
2022-08-20 08:25:44.210 [job-0] INFO JobContainer - jobContainer starts to do
split ...
2022-08-20 08:25:44.211 [job-0] INFO JobContainer - Job set Channel-Number to 5
channels.
2022-08-20 08:25:44.214 [job-0] INFO JobContainer - DataX Reader.Job
[oraclereader] splits to [1] tasks.
2022-08-20 08:25:44.215 [job-0] INFO JobContainer - DataX Writer.Job
[oraclewriter] splits to [1] tasks.
2022-08-20 08:25:44.239 [job-0] INFO JobContainer - jobContainer starts to do
schedule ...
2022-08-20 08:25:44.243 [job-0] INFO JobContainer - Scheduler starts [1]
taskGroups.
2022-08-20 08:25:44.244 [job-0] INFO JobContainer - Running by standalone Mode.
2022-08-20 08:25:44.255 [taskGroup-0] INFO TaskGroupContainer - taskGroupId=[0]
start [1] channels for [1] tasks.
2022-08-20 08:25:44.259 [taskGroup-0] INFO Channel - Channel set byte_speed_limit
to 1048576.
2022-08-20 08:25:44.259 [taskGroup-0] INFO Channel - Channel set
record_speed_limit to -1, No tps activated.
2022-08-20 08:25:44.274 [taskGroup-0] INFO TaskGroupContainer - taskGroup[0]
taskId[0] attemptCount[1] is started
2022-08-20 08:25:44.280 [0-0-0-reader] INFO CommonRdbmsReader$Task - Begin to read
record by Sql: [select a from test
] jdbcUrl:[jdbc:oracle:thin:@(description= (retry_count=20)(retry_delay=3)(address=
(protocol=tcps)(port=1521)(host=adb.ap-seoul-1.oraclecloud.com))(connect_data=
(service_name=x3flwiw0zp5wynv_ajdtest_high.adb.oraclecloud.com))(security=
(ssl_server_dn_match=yes)))]].
2022-08-20 08:25:44.465 [0-0-0-reader] INFO CommonRdbmsReader$Task - Finished read
record by Sql: [select a from test
] jdbcUrl:[jdbc:oracle:thin:@(description= (retry_count=20)(retry_delay=3)(address=
(protocol=tcps)(port=1521)(host=adb.ap-seoul-1.oraclecloud.com))(connect_data=
(service_name=x3flwiw0zp5wynv_ajdtest_high.adb.oraclecloud.com))(security=
(ssl_server_dn_match=yes)))]].
2022-08-20 08:25:44.775 [taskGroup-0] INFO TaskGroupContainer - taskGroup[0]
taskId[0] is succeeded, used[511]ms
2022-08-20 08:25:44.775 [taskGroup-0] INFO TaskGroupContainer - taskGroup[0]
completed it's tasks.
2022-08-20 08:25:54.263 [job-0] INFO StandAloneJobContainerCommunicator - Total 0
records, 0 bytes | Speed 0B/s, 0 records/s | Error 0 records, 0 bytes | All Task
WaitWriterTime 0.000s | All Task WaitReaderTime 0.000s | Percentage 100.00%
2022-08-20 08:25:54.263 [job-0] INFO AbstractScheduler - Scheduler accomplished
all tasks.
```

```

2022-08-20 08:25:54.264 [job-0] INFO JobContainer - DataX Writer.Job
[oraclewriter] do post work.
2022-08-20 08:25:54.264 [job-0] INFO JobContainer - DataX Reader.Job
[oraclereader] do post work.
2022-08-20 08:25:54.264 [job-0] INFO JobContainer - DataX jobId [0] completed
successfully.
2022-08-20 08:25:54.265 [job-0] INFO HookInvoker - No hook invoked, because base
dir not exists or is a file: /home/opc/datax/hook
2022-08-20 08:25:54.268 [job-0] INFO JobContainer -
    [total cpu info] =>
        averageCpu                | maxDeltaCpu                | minDeltaCpu

        -1.00%                    | -1.00%                     | -1.00%

    [total gc info] =>
        NAME                      | totalGCCount                | maxDeltaGCCount            |
minDeltaGCCount                | totalGCTime                 | maxDeltaGCTime             | minDeltaGCTime
        G1 Young Generation      | 1                            | 1                            | 1
        | 0.010s                  | 0.010s                      | 0.010s                     |
        G1 Old Generation        | 0                            | 0                            | 0
        | 0.000s                  | 0.000s                      | 0.000s                     |

2022-08-20 08:25:54.268 [job-0] INFO JobContainer - PerfTrace not enable!
2022-08-20 08:25:54.269 [job-0] INFO StandAloneJobContainerCommunicator - Total 0
records, 0 bytes | Speed 0B/s, 0 records/s | Error 0 records, 0 bytes | All Task
WaitWriterTime 0.000s | All Task WaitReaderTime 0.000s | Percentage 100.00%
2022-08-20 08:25:54.271 [job-0] INFO JobContainer -
任务启动时刻                  : 2022-08-20 16:25:41
任务结束时刻                  : 2022-08-20 16:25:54
任务总计耗时                  : 12s
任务平均流量                  : 0B/s
记录写入速度                  : 0rec/s
读出记录总数                  : 0
读写失败总数                  : 0

```

7. asdf