

组网及说明

不涉及组网信息

问题描述

centos+mysql环境下iMC 安装EIA部署失败，

过程分析

1、查看dmalog日志：有如下报错

2020-09-02 23:26:10 [INFO] [Thread-86]

[com.h3c.imc.deploy.dma.wizard.DeployingPanelDescriptor\$WorkingThread::run(358)] Executing com.h3c.imc.deploy.tasks.BuildDatabaseTask(正在执行数据库创建操作 - server/script_mysql.hz....)

2020-09-02 23:26:24 [ERROR] [SwingWorker-pool-3-thread-9] [com.h3c.imc.deploy.tasks.BuildDatabaseTask\$DatabaseBuilderWorker::doInBackground(921)] Execute database script error! return value:

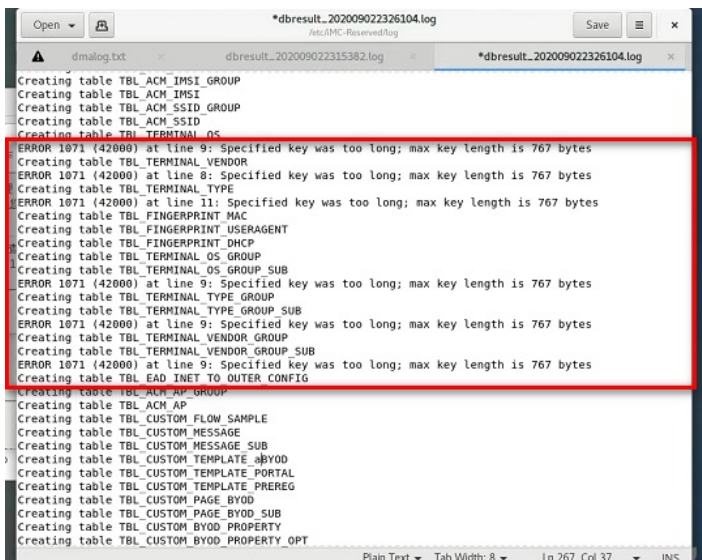
1. For details, see log file: /etc/iMC-Reserved/log/dbresult_202009022326104.log

2020-09-02 23:26:25 [ERROR] [Thread-86]

[com.h3c.imc.deploy.dma.wizard.DeployingPanelDescriptor\$WorkingThread::run(363)] Task execute failed

2、dmalog日志指向需要查看“/etc/iMC-Reserved/log/dbresult_202009022326104.log”

查看对应日志发现有如下报错记录：



```
dbresult_202009022326104.log x 127.0.0.1_20200902.log x 127.0.0.1_20200902.log x 51.2
0 10 20 30 40 50 60 70 80 90 100
232 Creating table TBL_TERMINAL_INFO_AUDIT_LOG
233 Creating table TBL_ACM_SERVICE_STRATEGY
234 Creating table TBL_ACCESS_RULE
235 Creating table TBL_ACM_MAC_GROUP
236 Creating table TBL_ACM_MAC
237 Creating table TBL_ACM_PHONE_GROUP
238 Creating table TBL_ACM_PHONE
239 Creating table TBL_ACM_IMSI_GROUP
240 Creating table TBL_ACM_IMSI
241 Creating table TBL_ACM_SSID_GROUP
242 Creating table TBL_ACM_SSID
243 Creating table TBL_TERMINAL_OS
244 ERROR 1071 (42000) at line 9: Specified key was too long; max key length is 767 bytes
245 Creating table TBL_TERMINAL_VENDOR
246 ERROR 1071 (42000) at line 8: Specified key was too long; max key length is 767 bytes
247 Creating table TBL_TERMINAL_TYPE
248 ERROR 1071 (42000) at line 11: Specified key was too long; max key length is 767 bytes
249 Creating table TBL_FINGERPRINT_MAC
250 Creating table TBL_FINGERPRINT_USERAGENT
251 Creating table TBL_FINGERPRINT_DHCP
252 Creating table TBL_TERMINAL_OS_GROUP
253 Creating table TBL_TERMINAL_OS_GROUP_SUB
254 ERROR 1071 (42000) at line 9: Specified key was too long; max key length is 767 bytes
255 Creating table TBL_TERMINAL_TYPE_GROUP
256 Creating table TBL_TERMINAL_TYPE_GROUP_SUB
257 ERROR 1071 (42000) at line 9: Specified key was too long; max key length is 767 bytes
258 Creating table TBL_TERMINAL_VENDOR_GROUP
259 Creating table TBL_TERMINAL_VENDOR_GROUP_SUB
260 ERROR 1071 (42000) at line 9: Specified key was too long; max key length is 767 bytes
261 Creating table TBL_EAD_INET_TO_OUTER_CONFIG
262 Creating table TBL_ACM_AP_GROUP
263 Creating table TBL_ACM_AP
264 Creating table TBL_CUSTOM_FLOW_SAMPLE
265 Creating table TBL_CUSTOM_MESSAGE
266 Creating table TBL_CUSTOM_MESSAGE_SUB
267 Creating table TBL_CUSTOM_TEMPLATE_BYOD
268 Creating table TBL_CUSTOM_TEMPLATE_PORTAL
269 Creating table TBL_CUSTOM_TEMPLATE_PREREG
270 Creating table TBL_CUSTOM_PAGE_BYOD
271 Creating table TBL_CUSTOM_PAGE_BYOD_SUB
272 Creating table TBL_CUSTOM_BYOD_PROPERTY
```

```
dbresult_202009022326104.log x 127.0.0.1_20200902.log x 127.0.0.1_20200902.log x 51.2.26.98配置.txt x
0 10 20 30 40 50 60 70 80 90 100 110
448 Creating table TBL_APPROVAL_INFO
449 Creating table TBL_SSV_APPLICATION_INFO
450 Creating table TBL_SSV_FUNCTION_NAME
451 Creating table TBL_IP_TERMINAL_INFO
452 Creating table TBL_IP_TERMINAL_ACCESS_DETAIL
453 Creating table TBL_SAFE_ASSESS_SUBJECT
454 Creating table TBL_SAFE_ASSESS_ITEM
455 Creating table TBL_SAFE_ASSESS_RESULT
456 Creating table TBL_SAFE_ASSESS_RESULT_SUB
457 Creating table TBL_SAFE_ASSESS_RESULT_TMP
458 Creating table TBL_WEIXIN_MINI_PROGRAM
459 Creating table TBL_WEIXIN_USER
460 Creating table TBL_EAD_CHART_COMPONENT
461 Creating table TBL_EAD_CHART_COMPONENT_INFO
462 Creating table TBL_EAD_CHART_VIEW
463 End to create EAD table.
464 -----
465 Begin to install avsoftware, afsoftware afwsoftware, assoftware, hdesoftware data...
466 End to install avsoftware, afsoftware, afwsoftware, assoftware, hdesoftware data...
467 -----
468 Begin to install EAD data...
469 ERROR 1062 (23000) at line 1475: Duplicate entry '?????' for key 'IND_SAFE_LEVEL'
470 The install of EAD database finished unsuccessfully, please contact your local IMC support centre.
471
```

Creating table TBL_ACM_SSID
Creating table TBL_TERMINAL_OS
ERROR 1071 (42000) at line 9: Specified key was too long; max key length is 767 bytes
Creating table TBL_TERMINAL_VENDOR
ERROR 1071 (42000) at line 8: Specified key was too long; max key length is 767 bytes
Creating table TBL_TERMINAL_TYPE
ERROR 1071 (42000) at line 11: Specified key was too long; max key length is 767 bytes

3. 这个日志记录的报错含义大致意思是说:

数据库表采用utf8编码, 而mysql默认情况下单个列的索引不能超过767位(不同版本可能存在差异), 于是utf8字符编码下, 255*3 byte 超过限制。

4. 查看下mysql对应的数据库字符集:

通过命令行登录数据库后执行如下命令: show variables like "%char%";, 查看到现场设置的字符集确实是utf8

```

Welcome to the MariaDB monitor.  Commands end with ; or \g
Your MariaDB connection id is 5739
Server version: 5.5.64-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show variables like '%char%';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| character_set_client | utf8 |
| character_set_connection | utf8 |
| character_set_database | gbk |
| character_set_filesystem | binary |
| character_set_results | utf8 |
| character_set_server | gbk |
| character_set_system | utf8 |
| character_sets_dir | /usr/share/mysql/charsets/ |
+-----+-----+
8 rows in set (0.00 sec)

```

5、修改mysql字符集为gbk（注：此部分在比较高版本的EIA版本说明书中有提及，如E0611及其补丁版本，mysql环境下部署EIA需要修改字符集为gbk），具体报错方法如下：

需要将客户端、服务端、连接的字符集都设置成gbk：

a. MySQL配置文件/etc/my.cnf文件，[mysqld]下修改或增加如下配置。

collation-server = gbk_chinese_ci

init-connect="SET NAMES gbk"

character_set_server=gbk

b. 修改或增加[mysql]、[client]、[mysql.server]、[mysqld_safe]配置如下：

[mysql]

no-auto-rehash

default_character_set=gbk

[client]

default-character-set=gbk

[mysql.server]

default-character-set=gbk

[mysqld_safe]

default-character-set=gbk

c. 重启MySQL，Root 用户登录MySQL（mysql -uroot -piMC123）输入查看字符集命令 show variables like "%char%";，字符集显示如下，则表明修改成功。

```

mysql> show variables like '%char%';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| character_set_client | gbk |
| character_set_connection | gbk |
| character_set_database | gbk |
| character_set_filesystem | binary |
| character_set_results | gbk |
| character_set_server | gbk |
| character_set_system | utf8 |
| character_sets_dir | /usr/local/mysql/share/charsets/ |
+-----+-----+
8 rows in set (0.00 sec)

```

解决方法

按照上述分析方法把数据库字符集对应调整为gbk格式后再部署即可成功。