

排除故障UCSM与中央印制厂的注册问题

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简介

本文描述如何排除故障某些与UCSM注册的常见问题与UCS中央印制厂

先决条件

要求

Cisco 建议您了解以下主题：

- 思科统一计算系统(UCS)
- UCS中央印制厂

使用的组件

本文档中的信息基于以下软件和硬件版本：

- 思科统一计算系统管理器(UCSM)
- 结构互连(FI)
- 在ESXi VM的UCS中央运行

故障排除方法

故障排除集中于在UCSM的自签名证书和中央而不是第三方证书

- 基本故障排除
- 有中央的UCSM卡住的注册状态

- UCSM中央状态被滞留的进展中在升级以后
- 与中央的UCSM丢失可见性
- 检查的日志
- 故障排除命令

基本故障排除

请保证这些基本检查完成：

- 共享秘密不匹配。
- UCS中央设备不可及的。
- UCS中央GUID是与已经注册UCS中央印制厂的GUID不同。
- 时间不是同步的在UCSM和UCS中央印制厂之间。
- 在UCSM的过期的证书。
- 默认钥匙圈证书不存在。虽然第三方CA可以用于HTTPS。UCSM注册使用默认钥匙圈证书并且不应该删除。
- 保证UCSM接收从UCSC的握手请求。

Central# connect local-mgmt

Central(local-mgmt)# test ucsm-connectivity <ucsm_ip>

从顺利地注册与中央供应商的UCSM的数据包捕获

10.106.74.195	10.106.74.234	TCP	74 43448 - 443 [SYN] Seq=0 Win=5040 Len=0 MSS=1460 SACK_PERM=1 TSval=233688518 TSecr=0 WS=312
10.106.74.234	10.106.74.195	TCP	74 443 - 43448 [SYN, ACK] Seq=8 Ack=1 Win=3792 Len=0 MSS=1460 SACK_PERM=1 TSval=9552296 TSecr=233688518 WS=138
10.106.74.195	10.106.74.234	TCP	66 43448 - 443 [ACK] Seq=1 Ack=1 Win=6144 Len=0 TSval=233688518 TSecr=9552296
10.106.74.195	10.106.74.234	TLSv1	154 Client Hello
10.106.74.234	10.106.74.195	TCP	66 443 - 43448 [ACK] Seq=1 Ack=89 Win=5888 Len=0 TSval=9552298 TSecr=233688519
10.106.74.234	10.106.74.195	TLSv1	892 Server Hello, Certificate, Server Hello Done
10.106.74.195	10.106.74.234	TCP	66 43448 - 443 [ACK] Seq=89 Ack=827 Win=7680 Len=0 TSval=233688519 TSecr=9552298
10.106.74.195	10.106.74.234	TLSv1	392 Client Key Exchange, Change Cipher Spec, Finished
10.106.74.234	10.106.74.195	TLSv1	525 Change Cipher Spec, Finished
10.106.74.195	10.106.74.234	TLSv1	412 [SSL segment of a reassembled PDU]
10.106.74.234	10.106.74.195	HTTP	119 HTTP/1.1 100 Continue
10.106.74.195	10.106.74.234	HTTP	1196 POST /xmlInternal/apache/cert HTTP/1.1 (application/x-www-form-urlencoded)
10.106.74.234	10.106.74.195	TCP	66 443 - 43448 [ACK] Seq=939 Ack=1891 Win=18240 Len=0 TSval=9552344 TSecr=233688519
10.106.74.234	10.106.74.195	HTTP/XL	1484 HTTP/1.1 200 OK
10.106.74.195	10.106.74.234	TLSv1	183 Alert (Level: Warning, Description: Close Notify)
10.106.74.195	10.106.74.234	TCP	66 43448 - 443 [FIN, ACK] Seq=1928 Ack=2357 Win=18752 Len=0 TSval=233690827 TSecr=9567376
10.106.74.234	10.106.74.195	TCP	66 443 - 43448 [ACK] Seq=2357 Ack=1928 Win=18240 Len=0 TSval=9567377 TSecr=233690827
10.106.74.234	10.106.74.195	TLSv1	183 Alert (Level: Warning, Description: Close Notify)

Source	Destination	Protocol	Length	Info
10.106.74.195	10.106.74.234	HTTP	540	POST /xmlInternal/apache/cert HTTP/1.1 (application/x-www-form-urlencoded)
10.106.74.234	10.106.74.195	HTTP/XOHL	180	HTTP/1.1 200 OK
10.106.74.234	10.106.74.195	HTTP	119	HTTP/1.1 100 Continue
10.106.74.195	10.106.74.234	HTTP	1196	POST /xmlInternal/apache/cert HTTP/1.1 (application/x-www-form-urlencoded)
10.106.74.234	10.106.74.195	HTTP/XOHL	1484	HTTP/1.1 200 OK
10.106.74.195	10.106.74.234	HTTP	588	POST /xmlInternal/service-reg/forward HTTP/1.1 (application/x-www-form-urlencoded)
10.106.74.195	10.106.74.234	HTTP	572	POST /xmlInternal/service-reg/forward HTTP/1.1 (application/x-www-form-urlencoded)
10.106.74.195	10.106.74.234	HTTP/XOHL	780	POST /xmlInternal/service-reg HTTP/1.1
10.106.74.234	10.106.74.194	HTTP/XOHL	556	POST /xmlInternal/managed-endpoint HTTP/1.1
10.106.74.195	10.106.74.234	HTTP/XOHL	636	POST /xmlInternal/identifier-mgr HTTP/1.1
10.106.74.195	10.106.74.234	HTTP/XOHL	684	POST /xmlInternal/operation-mgr HTTP/1.1
10.106.74.195	10.106.74.234	HTTP/XOHL	428	POST /xmlInternal/stats-mgr HTTP/1.1
10.106.74.234	10.106.74.194	HTTP/XOHL	716	POST /xmlInternal/managed-endpoint HTTP/1.1
10.106.74.234	10.106.74.194	HTTP/XOHL	604	POST /xmlInternal/managed-endpoint HTTP/1.1
10.106.74.195	10.106.74.234	HTTP/XOHL	428	POST /xmlInternal/resource-mgr HTTP/1.1

请勿未注册从UCSM的中央。当您未注册所有全局服务配置文件将变得本地对UCS域。再使一本地服务档案全局是可能的。然而，它是一个非常复杂过程并且有在服务的一影响。

有中央印制厂的UCSM卡住的注册状态

如果UCS管理器注册对UCS中央印制厂，并且该UCS管理器升级到3.1.1，则UCS管理器去注册状态和被滞留得那里。

在中央印制厂DME日志观察的许多卷毛错误

```
9603: [WARN][0x27699940][Apr 5 18:00:54.714][write:net] write of 3752 bytes using curl failed, code=7, error: 'Couldn't connect to server', ep:
```

<https://10.106.74.195:443/xmlInternal/managed-endpoint>

9604: [WARN][0x27699940][Apr 5 18:00:54.714][write:net] non-critical curl write error.

从UCSM DME

[INFO][0x682ffb90][Nov 1 16:05:24.886][sam_sec:check_cert_val] X509_verify_cert_error_string - ok

[INFO][0x682ffb90][Nov 1 16:05:24.886][sam_sec:X509VerifyCert] ErrorMsg:ok ErrorNo:0

[INFO][0x682ffb90][Nov 1 16:05:24.886][app_sam_dme:processKey] something wrong with KR-default certificate, status - 18

问题能归结于UCSM使用旧有MD哈希而不是证书的SHA1

[WARN][0x674ffb90][Nov 22 19:11:49.227][net:write] write of 546 bytes using curl failed, code=60, error: 'Peer certificate cannot be authenticated with given CA certificates(SSL certificate problem: self signed certificate)', ep:

<https://10.106.74.234:443/xmlInternal/service-req>

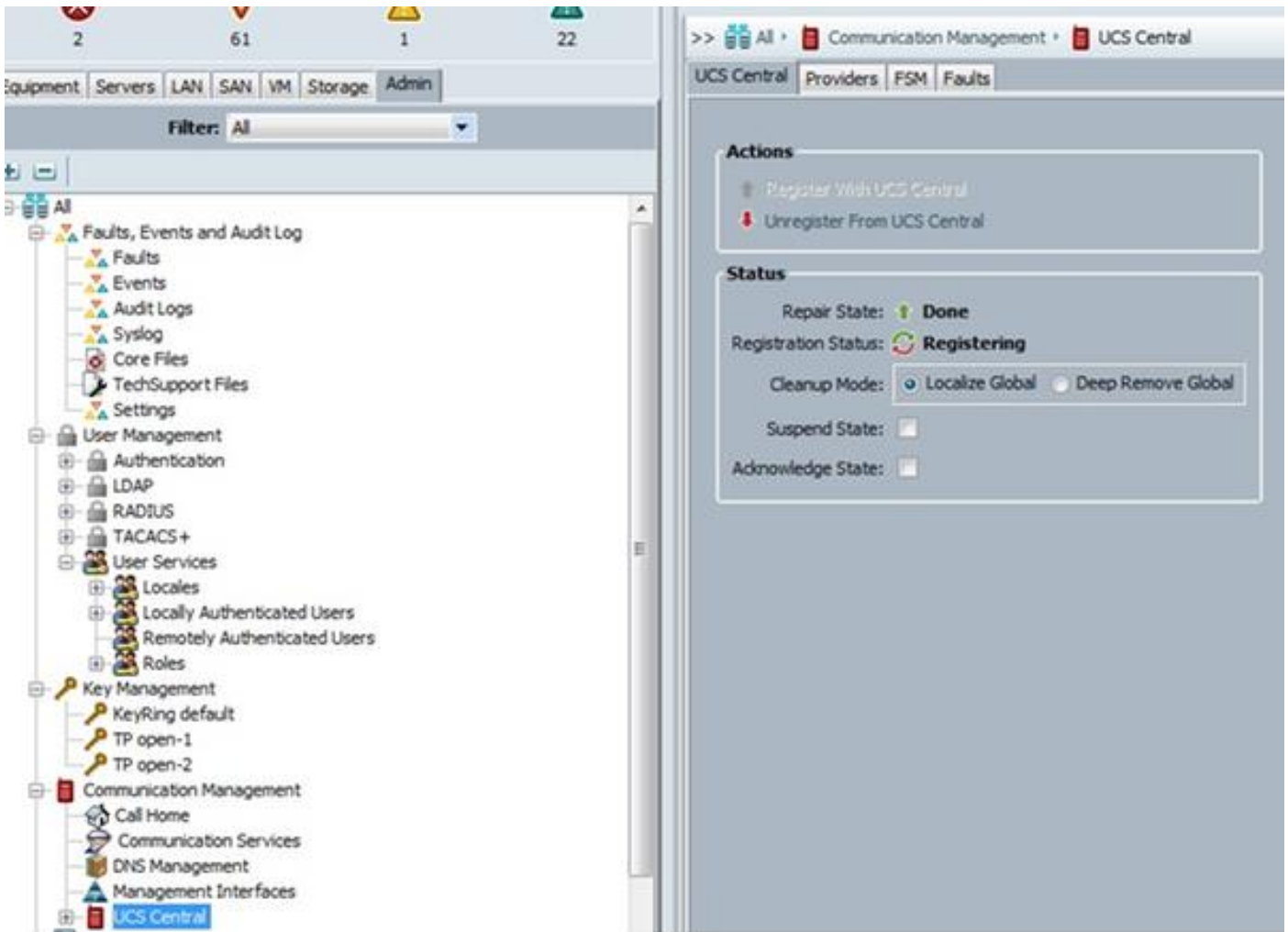
[INFO][0x674ffb90][Nov 22 19:11:49.227][net:certFailure] certificate is bad for connection to '<https://10.136.58.4:443/xmlInternal/service-req>';

执行这些应急方案作为它造成UCS管理器成功注册到UCS中央印制厂和修复验证错误

默认钥匙圈可以从在设备配置文件部分下的UCS中央印制厂CLI被重新生成。

```
connect policy-mgr
scope org
scope device-profile
scope security
scope keyring default
set regenerate yes
commit-buffer
```

如果应急方案不请解决请提出有Cisco TAC的一个案件进一步验证



如果UCS管理器最初在任何时间注册对UCS以下中央印制厂在版本2.1.3。然后在升级期间到3.1.1以上提到的注册问题仍然被看到。

对于此TAC介入必要作为UCS 2.1.3，并且更早版本，UCSM不拆分证书。TAC需要改作证书，以便创建正确的softlinks对证书。

UCSM中央状态被滞留的进展中在升级以后

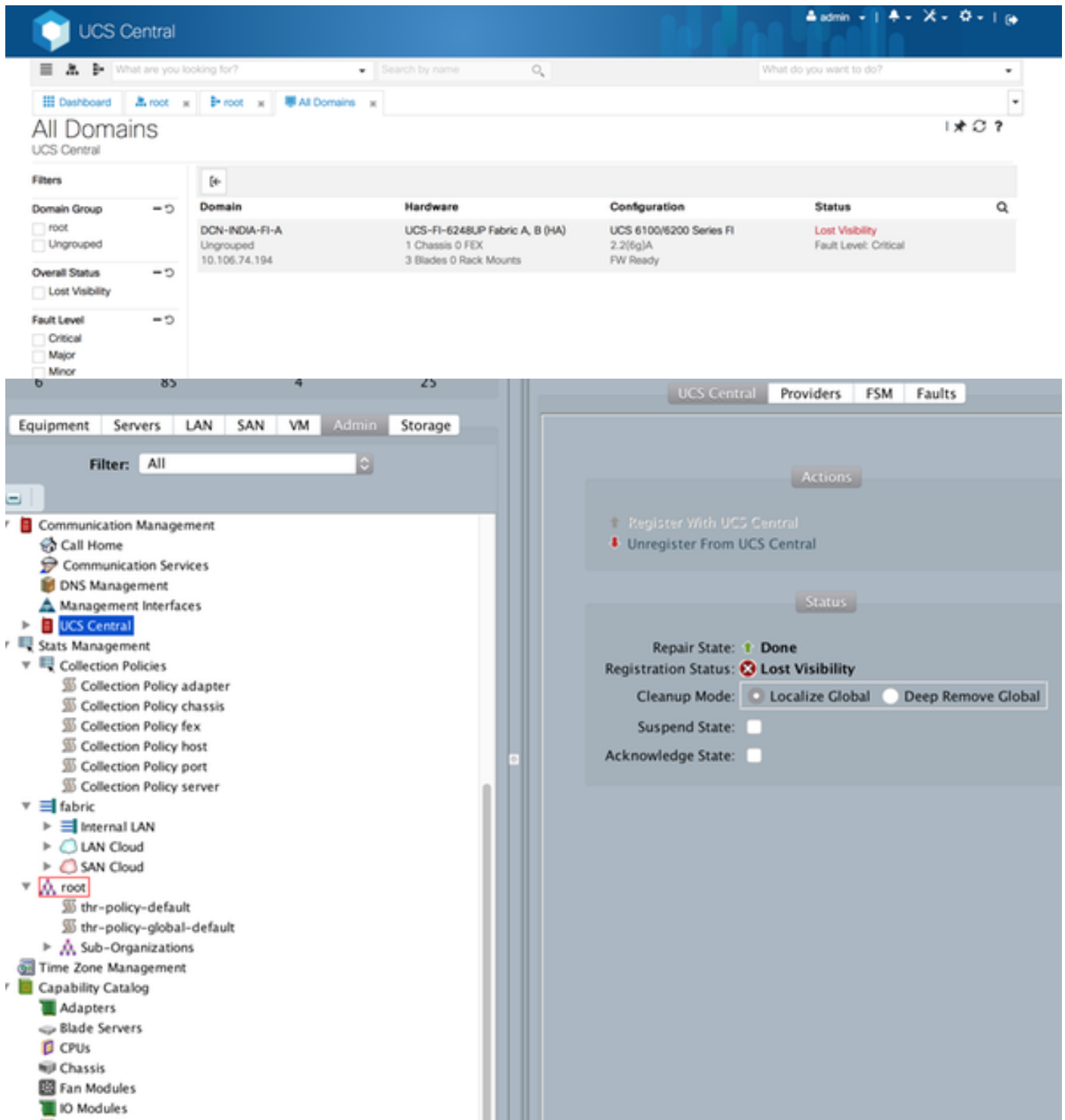
问题归结于数据库出去同步在中央和UCS之间

在管理器日志观察的这些错误

```
[WARN][0xbbce9940][Aug 11 10:23:18.194][storeMo:mit_init] SQL error [SQLParamData failure: Error while executing the query (non-fatal);
ERROR: duplicate key value violates unique constraint "InstanceId2DN_dn_key"] stmt [INSERT INTO "InstanceId2DN" ("instanceId", "dn", "className", "parent") VALUES (?, ?, ?, ?)]
[INFO][0xbbce9940][Aug 11 10:23:18.194][report:exception_handl] FATAL[3|150]
/ramfs/buildsa/150407-104741-rev219791-
FCSa/resMgr/sam/src/lib/framework/core/sql/MitDbImpl.cc(1167):storeMo: Failed to connect to database. Transaction aborted.
[INFO][0xbbce9940][Aug 11 10:23:18.201][report:exception_handl] ERROR[3|150]
/ramfs/buildsa/150407-104741-rev219791-
FCSa/resMgr/sam/src/lib/framework/core/proc/Doer.cc(795):exceptionCB: exception encountered during processing: "Failed to connect to database. Transaction aborted." [150] Failed to connect to database. Transaction aborted.
[INFO][0xbbce9940][Aug 11 10:23:18.201][failedCb:tx] TX FAILED
```

这是数据库同步问题请提出有Cisco TAC的一个案件进一步验证

UCSM与中央印制厂的丢失的可见性



检查注册状态

如果它显示“丢失可见性” UCS中央印制厂在一个或更多需要的端口不可能被到达。如果UCS中央印制厂使用闪存GUI (弹性)以下端口是开放的对中央印制厂：443，80，843。HTML GUI只要求端口443。

检查的日志

UCSM

/var/sysmgr/sam_logs/pa_setup.log
svc_sam_dme.log files on FI
中央印制厂

Svc_dme_reg.log

故障排除命令

```
Central# connect policy-mgr
Central# scope org
Central# scope device-profile
Central# scope security

Central# Show keyring detail UCSM# scope system
UCSM# scope security
UCSM# show keyring detail
connect local-mgmt
telnet <Central IP> <port>
^ (Shift+6) ] with no spaces to exit   FSM status
    scope system
    scope control-ep policy
    show fsm status Central# connect service-reg
Central(service-reg)# show fault
Central(service-reg)# show clients detail
Registered Clients:
  ID: 1008
  Registered Client IP: 10.106.74.194
  Registered Client IPV6: ::
  Registered Client Connection Protocol: Ipv4
  Registered Client Name: DCN-INDIA-FI-A
  Registered Client GUID: e832cfc2-548b-11e4-b8f2-002a6a6f6dc1
  Registered Client Version: 2.2(6g)
  Registered Client Type: Managed Endpoint
  Registered Client Capability: Policy Client Module
  Registered Client Last Poll Timestamp: 2016-12-08T12:33:36.417
  Registered Client Operational State: Registered
  Registered Client Suspend State: Off
  Registered Client License State: License Graceperiod
  Registered Client grace period used: 33
  Registered Client Network Connection State: Connected
```

已知缺陷

- Cisco Bug ID [CSCuy07652 dwngarde](#) 升级从ECMR6到Delmar-mr2做域“注册”。
- Cisco Bug ID [CSCuv07227](#) UCSM再登记失败，当执行fw升级时。
- Cisco Bug ID [CSCuu91088](#) 中央无法刷新库存。
- 在低带宽环境的经典ucs [CSCut72698报告FULL库存](#)失败的Cisco Bug ID。

相关信息

注册与UCS中央的思科UCSM域

http://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/sw/gui/config/guide/2-2/b_UCSM_GUI_Configuration_Guide_2_2/registering_cisco_ucs_domains_with_cisco_ucs_central.html