

# UCS中心注册和故障排除

## 目录

[简介](#)

[使用的组件](#)

[步骤](#)

[常见注册问题故障排除：](#)

[情形 1：从UCS中心注册域时，UCS域的管理员密码错误。](#)

[方案 2：UCS中心和UCS域时间未同步。](#)

[情形 3：从UCS域注册时输入了错误的共享密钥。](#)

[场景 4：UCS中心在注册期间无法与UCS Manager通信](#)

## 简介

本文档介绍向UCS中心注册思科统一计算系统 — UCS域的步骤。在UCS Central 1.5版之前，注册只能从UCS Manager进行。版本1.5以后，可从UCS Central和UCS Manager进行注册。

## 使用的组件

UCS中心2.0(1a)

UCS Manager 3.1(3a)

所有使用的设备都是实验设备

## 步骤

从UCS域注册流程：

启动UCS Manager，然后点击Admin-> Communication Management-> UCS Central。

选择Register with UCS Central。

输入UCS中心的主机名/ IP地址和共享密钥(始终是使用主机名注册UCS中心的最佳做法，因为IP地址可以在注册域时使用DNS条目进行更改，因此可以单击**确定**开始注册。

在注册时可以设置策略解析控制。注册后也可以更改。

### Register With UCS Central



Hostname/IP Address :

Shared Secret :

All Global

#### Policy Resolution Control

Infrastructure & Catalog Firmware :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether the Capability Catalog and infrastructure firmware policy are defined locally or come from Cisco UCS Central.
Time Zone Management :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether the time zone and NTP server settings are defined locally or comes from Cisco UCS Central.
Communication Services :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether HTTP, CIM XML, Telnet, SNMP, web session limits, and Management Interfaces Monitoring Policy settings are defined locally or in Cisco UCS Central.
Global Fault Policy :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether the Global Fault Policy is defined locally or in Cisco UCS Central.
User Management :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether authentication and native domains, LDAP, RADIUS, TACACS+, trusted points, locales, and user roles are defined locally or in Cisco UCS Central.
DNS Management :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether DNS servers are defined locally or in Cisco UCS Central.

OK

Cancel

# Register With UCS Central



Hostname/IP Address :

Shared Secret :

All Global

## Policy Resolution Control

Infrastructure & Catalog Firmware :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether the Capability Catalog and infrastructure firmware policy are defined locally or come from Cisco UCS Central.
Time Zone Management :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether the time zone and NTP server settings are defined locally or comes from Cisco UCS Central.
Communication Services :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether HTTP, CIM XML, Telnet, SNMP, web session limits, and Management Interfaces Monitoring Policy settings are defined locally or in Cisco UCS Central.
Global Fault Policy :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether the Global Fault Policy is defined locally or in Cisco UCS Central.
User Management :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether authentication and native domains, LDAP, RADIUS, TACACS+, trusted points, locales, and user roles are defined locally or in Cisco UCS Central.
DNS Management :	<input checked="" type="radio"/> Local <input type="radio"/> Global	Determines whether DNS servers are defined locally or in Cisco UCS Central.

OK

Cancel

监控FSM(有限状态机)状态以检查注册过程。

All / Communication Management / UCS Central

UCS Central Providers FSM Faults

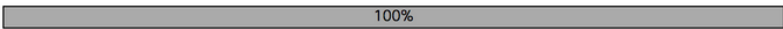
UCS Central Registration Policy Resolution Control

FSM Status : **Success**

Description :

Current FSM Name : **Register Fsm**

Completed at : **2017-08-18T13:02:42Z**

Progress Status :  100%

Remote Invocation Result : **Not Applicable**

Remote Invocation Error Code : **None**

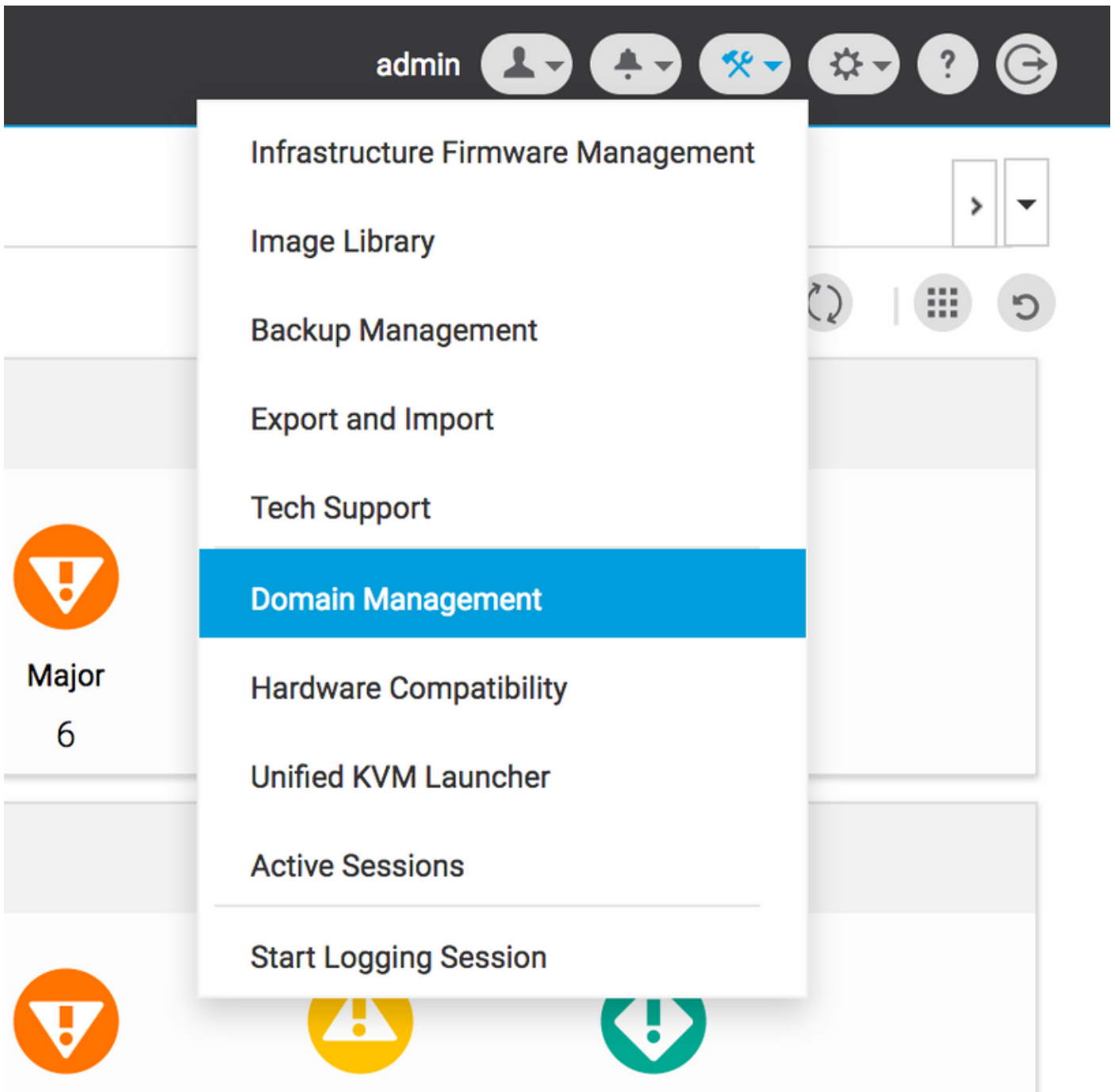
Remote Invocation Description :

Step Sequence

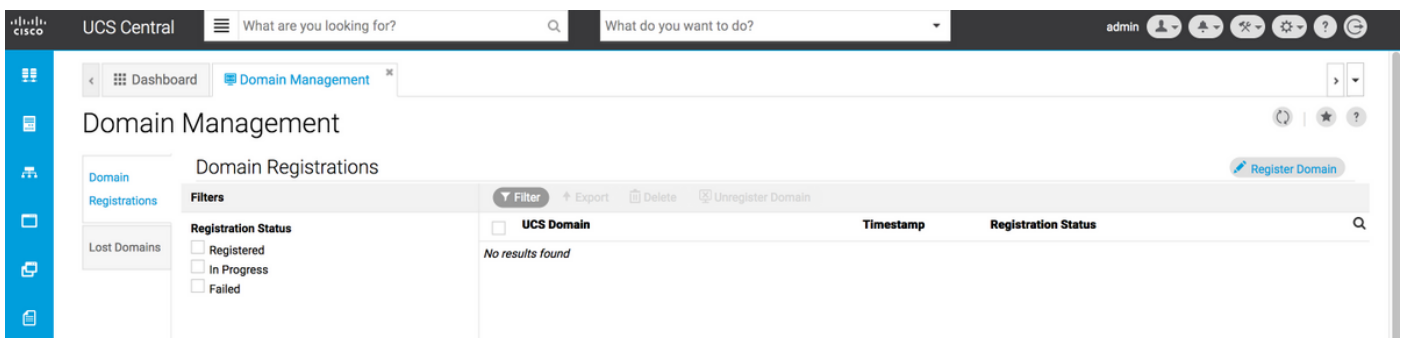
Order	Name	Description	Status	Timestamp	Retried
1	Register Fsm Execute	Register FSM Execute(FS...	Success	2017-08-18T13:02:42Z	2

从UCS中心注册流程：

启动UCS Central，然后单击System tools(系统工具)并转到Domain Management (域管理)。



单击右角的Register Domain (注册域)。



输入UCS域主机名/IP地址和管理员用户名和密码。选择UCS中心的主机名/IP地址，然后点击注册。  
(在注册域时，使用主机名作为IP地址注册UCS中心的最佳做法始终是使用DNS条目更改IP地址。)

# Domain to UCS Central Register



- Policy
- Resolution
- Control

## UCS Central System Profile - Date & Time

In addition, if HTTPS is supported on the Domain, it must be enabled in order to register with UCS Central.

UCS Domain Hostname/IP Address \*

ucsdomain.cisco.com

UCS Domain User Name \*

admin

UCS Domain Password

\*\*\*\*\*

Registration Hostname/IP address from UCS Central

hk-central-2

Cisco best practice is to register UCS Domains to UCS Central using the Fully Qualified Domain Name (FQDN). If you register the UCS Domain to UCS Central using an IP address and later change the IP address of UCS Central, you will need to unregister and re-register the UCS Domain to UCS Central.

[UCS Central System Profile - DNS](#)

Cancel

Register

FSM状态可以从Configuration Status选项卡监控。

Register Domain

Filter Export Delete Unregister Domain

<input type="checkbox"/>	UCS Domain	Timestamp	Registration Status	Q
<input type="checkbox"/>	172.16.16.153	17-Aug-2017 3:42:05 PM	In Progress Configuration Status	

## 常见注册问题故障排除：

**情形 1：**从UCS中心注册域时，UCS域的管理员密码错误。

**修复程序：**请更正管理员密码，然后重试注册。

UCS中心的FSM状态

# Domain Registrations Configuration Status



<b>System FSM Name</b> Registration Fail	<b>Status</b> Registration Fail	<b>Progress Status</b> <div style="width: 10%;"><div style="width: 10%;"></div></div> 10%	<a href="#">FSM Details</a>		
<b>Current Stage Name</b> Authorizing Admin Credentials	<b>Stage Status</b> Failed	<b>Retries</b> 1	<b>Time Stamp</b> 17-Aug-2017 3:40:54 PM		
Order	Name	Description	Timestamp	Retries	Status
3	Remote Domain Reg Check Status			0	Skipped
2	Remote Domain Reg Push Shared Secret			0	Skipped
1	Authorizing Admin Credentials	Authorizing the admin credentials against the remote domain(FSM-STAGE:sam:dme:PolicyControlEpOpRemoteDomainReg:Registration)	17-Aug-2017 3:40:54 PM	1	Failed

Close

## 方案 2 : UCS中心和UCS域时间未同步。

**修复程序:**在UCS中心和UCS域上同步时间，然后重试注册。

请参阅[下面链接中的UCS Manager](#)中的强制时间同步以更正时间。

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/ucs-central/GUI-User-Guides/Operations/b\\_UCSC\\_Ops\\_Guide\\_2\\_0/b\\_UCSC\\_Ops\\_Guide\\_2\\_0\\_chapter\\_01100.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-central/GUI-User-Guides/Operations/b_UCSC_Ops_Guide_2_0/b_UCSC_Ops_Guide_2_0_chapter_01100.html)

UCS Manager的FSM状态

FSM Status : **In Progress**  
 Description :  
 Current FSM Name : **Repair Cert**  
 Completed at :  
 Progress Status :   
 Remote Invocation Result : **Resource Unavailable**  
 Remote Invocation Error Code : **5**  
 Remote Invocation Description : **UCSM and UCS Central time is not synchronized. Retrying...**

⊖ Step Sequence

Order	Name	Description	Status	Timestamp	Retried
1	Repair Cert Verify Guid	verifying GUID of UCS Ce...	In Progress	2017-08-17T22:41:53Z	1
2	Repair Cert Unregister		Pending		0
3	Repair Cert Clean Old Data		Pending		0
4	Repair Cert Request		Pending		0
5	Repair Cert Verify		Pending		0

## 情形 3：从UCS域注册时输入了错误的共享密钥。

**修复程序:**输入正确的共享密钥，然后重试注册。

请参阅在下面的链接中重置共享密钥以更改共享密钥。

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/ucs-central/install-upgrade/2-0/b\\_Cisco\\_UCSC\\_Install\\_and\\_Upgrade\\_Guide\\_2\\_0/b\\_Cisco\\_UCSC\\_Install\\_and\\_Upgrade\\_Guide\\_2\\_0\\_chapter\\_0101.html#task\\_8299DFA4853049068C7E384F5E8FF493](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-central/install-upgrade/2-0/b_Cisco_UCSC_Install_and_Upgrade_Guide_2_0/b_Cisco_UCSC_Install_and_Upgrade_Guide_2_0_chapter_0101.html#task_8299DFA4853049068C7E384F5E8FF493)

UCS Manager的FSM状态

UCS Central   Providers   **FSM**   Faults

**UCS Central Registration**   Policy Resolution Control

FSM Status : **Fail**  
 Description :  
 Current FSM Name : **Repair Cert**  
 Completed at : **2017-08-17T22:45:38Z**  
 Progress Status :   
 Remote Invocation Result : **Failure**  
 Remote Invocation Error Code : **5**  
 Remote Invocation Description : **shared secret mismatch**

⊖ Step Sequence

Order	Name	Description	Status	Timestamp	Retried
1	Repair Cert Verify Guid	verifying GUID of UCS Ce...	In Progress	2017-08-17T22:43:10Z	2
2	Repair Cert Unregister		Pending		0
3	Repair Cert Clean Old Data		Pending		0
4	Repair Cert Request		Pending		0
5	Repair Cert Verify		Pending		0

## 场景 4 : UCS中心在注册期间无法与UCS Manager通信

修复程序:确保UCSM和UCS Central 443之间没有防火墙阻止通信。

### UCS Manager的FSM状态

UCS Central   Providers   **FSM**   Faults

**UCS Central Registration**   Policy Resolution Control

FSM Status : **In Progress**  
 Description :  
 Current FSM Name : **Repair Cert**  
 Completed at :  
 Progress Status :   
 Remote Invocation Result : **Not Applicable**  
 Remote Invocation Error Code : **None**  
 Remote Invocation Description :

⊖ Step Sequence

Order	Name	Description	Status	Timestamp	Retried
1	Repair Cert Verify Guid	verifying GUID of UCS Ce...	In Progress	2017-08-17T22:49:34Z	1
2	Repair Cert Unregister		Pending		0
3	Repair Cert Clean Old Data		Pending		0
4	Repair Cert Request		Pending		0
5	Repair Cert Verify		Pending		0