

# 安装、配置vSphere Web客户端的Cisco UCSM插件并对其进行故障排除

## 目录

[简介](#)

[先决条件](#)

[要求](#)

[使用的组件](#)

[配置](#)

[验证](#)

[故障排除](#)

## 简介

本文档介绍如何安装、配置和排除vSphere Web客户端的Cisco UCS Manager插件故障。Cisco UCSM插件是vSphere Web客户端v5.5及更高版本的扩展。它使虚拟化管理员能够查看、管理和监控Cisco UCS物理基础设施的各个方面。结果，Virtual Center用户只需一个窗格即可获取给定虚拟机监控程序的物理和虚拟基础设施信息。

## 先决条件

### 要求

思科建议您了解，

- Cisco UCS和UCS Manager ( UCSM 2.x和3.x )
- VMWare vCenter
- HTTP/HTTPS服务器到主机vCenter插件

### 使用的组件

本文档中的信息基于这些软件和硬件版本

- vCenter 5.5或更高版本
- Cisco UCS Manager插件1.x ( 1.1.1和1.2.1 )
- UCS Manager 2.2
- VMware vSphere Web客户端5.5
- 在HTTP或HTTPS服务器上托管的插件包。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始(默认)配置。如果您的网络处于活动状态，请确保您了解任何更改或配置的潜在影响。

## 配置

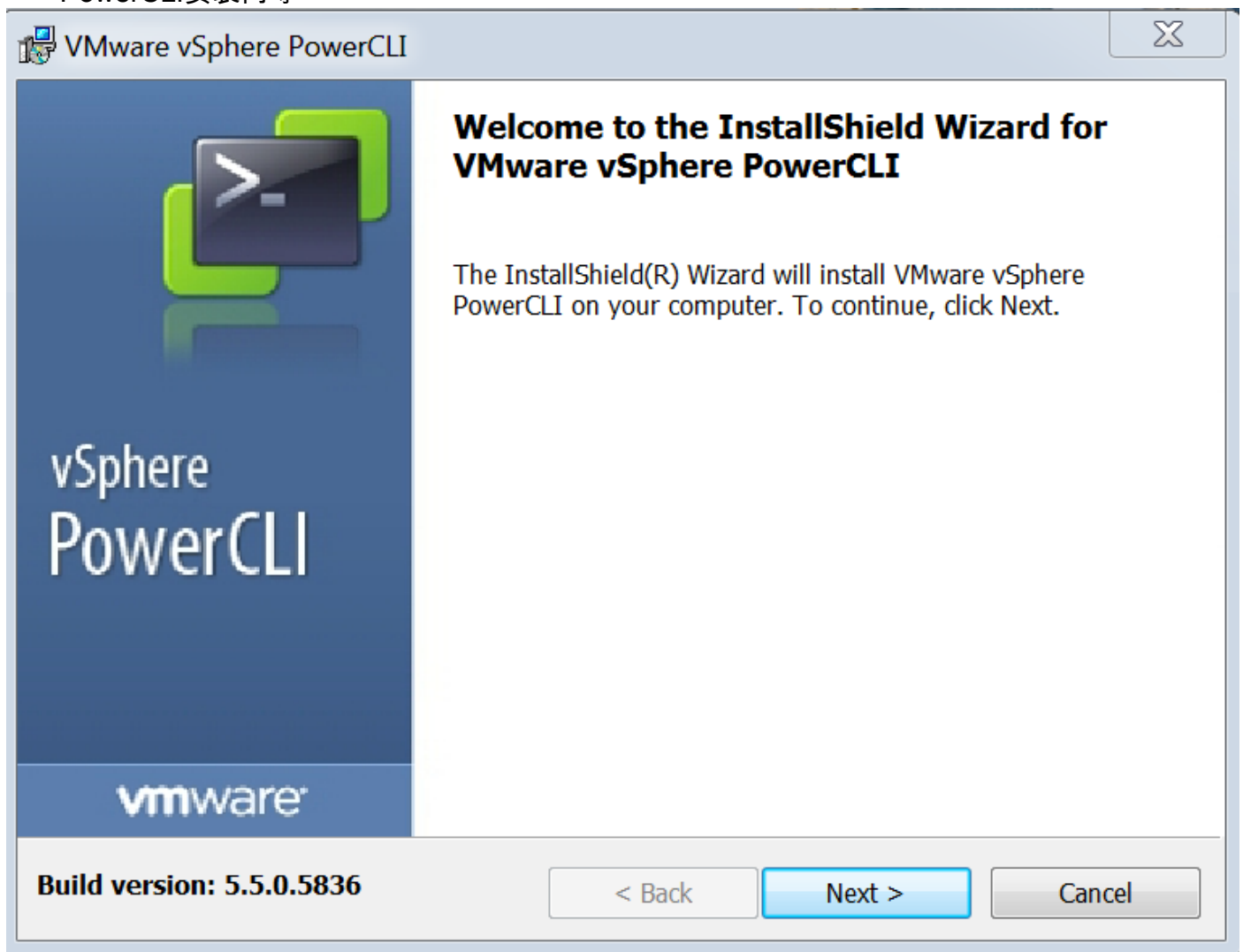
## 步骤1:

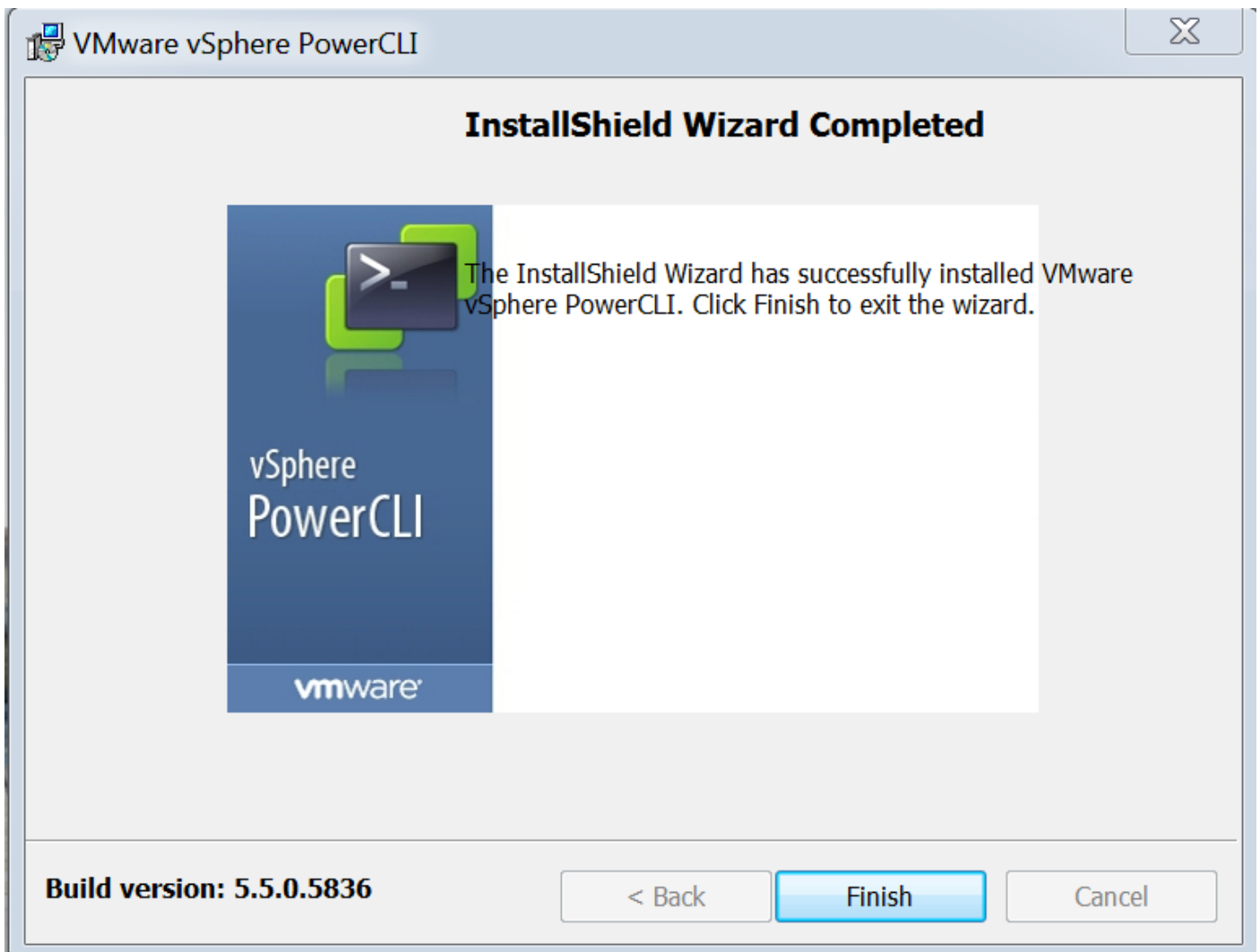
- 下载插件和注册工具zip文件，网址为：[http:// www.cisco.com/](http://www.cisco.com/)  
[适用于VMware vSphere Web客户端的Cisco UCS Manager插件](#)  
[Cisco UCS Manager插件注册工具](#)

| Name  | Date Modified          | Size    |
|---|------------------------|---------|
| Cisco UCS Plugin Registration Tool.exe        | Mar 11, 2015, 12:35 PM | 186 KB  |
| Cisco_UCS_Plugin_Registration_Tool_v1.1.1.zip | Feb 24, 2016, 10:20 AM | 35 KB   |
| ucs-vcplugin-1.1.1                            | Feb 24, 2016, 10:23 AM | --      |
| ucs-vcplugin-1.1.1.zip                        | Feb 23, 2016, 4:39 PM  | 18.9 MB |

## 第二步：

- 安装VMware PowerCLI 5.1或更高版本以运行注册工具。
- 安装VMware vCenter 5.1或更高版本。
- PowerCLI安装向导 —









#### 第三步：

- 安装VMware vSphere Web客户端5.5及其前提条件。
- 有关VMware vSphere Web客户端前提条件的信息，请参阅- [http:// kb.vmware.com/ selfservice/ microsites/ search do?language=en\\_ US&cmd=displayKC&externalId=2005083](http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2005083)
- 安装vCenter。本文档中的示例使用vCenter 5.5设备。

#### 第四步：

- HTTP或HTTPS服务器上托管的插件包

# Index of /software/vmware/vsphere

| <u>Name</u>  | <u>Last modified</u> | <u>Size</u> | <u>Description</u> |
|--|----------------------|-------------|--------------------|
|  <a href="#">Parent Directory</a>         |                      | -           |                    |
|  [redacted]                               | 13-Apr-2013 00:26    | -           |                    |
|  [redacted]                               | 13-Apr-2013 00:28    | -           |                    |
|  [redacted]                               | 13-Apr-2013 00:27    | -           |                    |
|  [redacted]                               | 24-Sep-2013 18:08    | -           |                    |
|  [redacted]                               | 21-Feb-2015 01:40    | -           |                    |
|  [redacted]                               | 16-Dec-2015 03:52    | -           |                    |
|  <a href="#">cli/</a>                     | 13-Apr-2013 20:12    | -           |                    |
|  <a href="#">license/</a>                | 17-Nov-2015 23:34    | -           |                    |
|  <a href="#">ucs-vcplugin-1.1.1.zip</a> | 23-Feb-2016 16:39    | 18M         |                    |
|  <a href="#">ucs-vcplugin-1.2.1.zip</a> | 24-Feb-2016 16:09    | 19M         |                    |

## 第五步：

- 解压注册工具并双击以启动它。系统将显示Cisco UCS Plugin Registration Tool屏幕。
- 要注册新插件，请配置以下字段：IP/主机名 — vCenter服务器的IP或主机名。用户名 — vCenter用户名。密码 — vCenter密码。插件位置： — 插件zip文件的HTTPS/HTTP URL。例如，<https://10.1x.1x.1/plugins/ucs/ucs-vcplugin-1.1.1.zip>。单击“Submit”。



This tool registers/unregisters the Cisco UCS Plugin for VMware vSphere Web Client



### Action

Register Plugin

Unregister Plugin

### vCenter Details

IP/Hostname

[Redacted]

Username

root

Password

\*\*\*\*\*

### Plugin Location

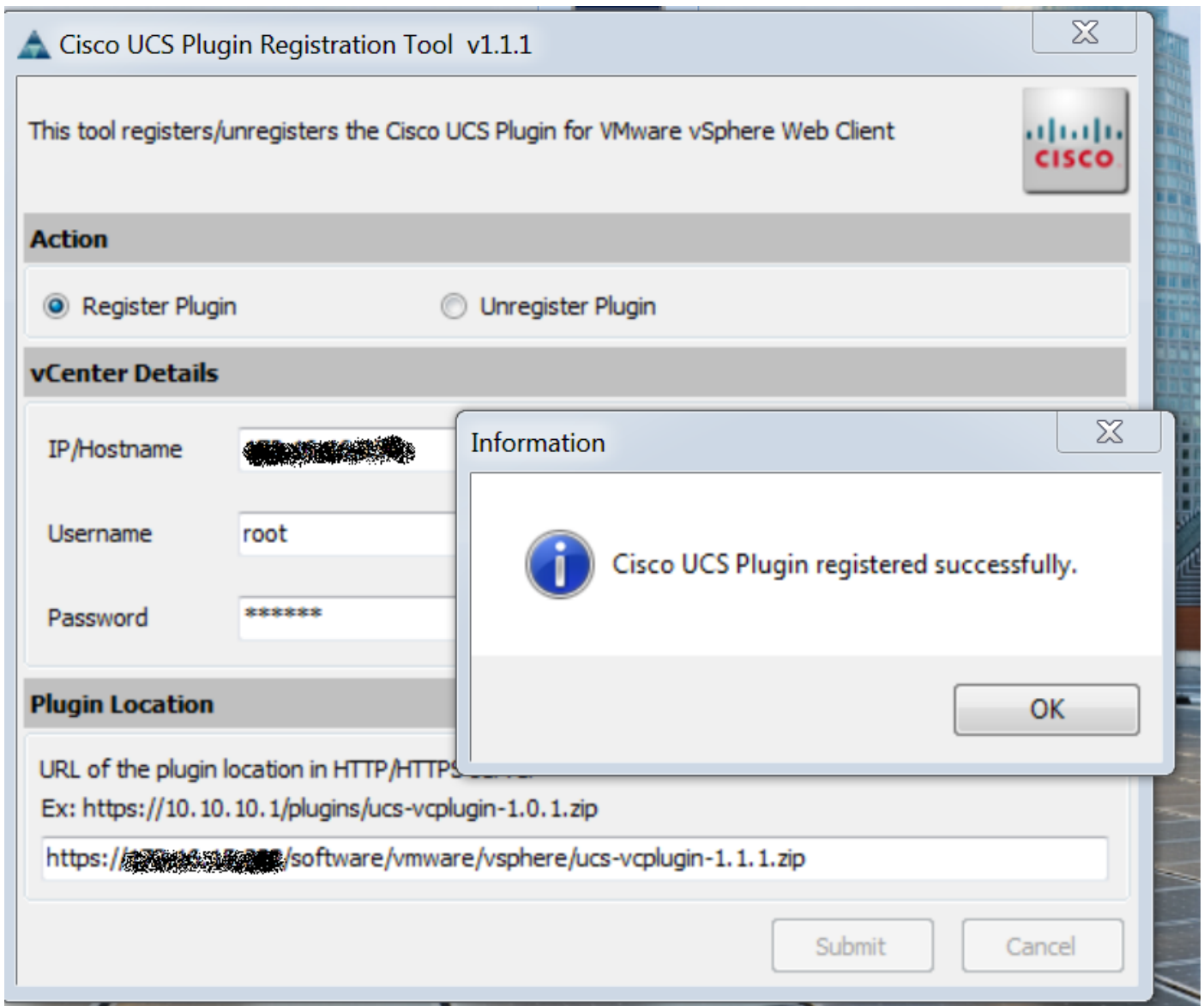
URL of the plugin location in HTTP/HTTPS server

Ex: <https://10.10.10.1/plugins/ucs-vcplugin-1.0.1.zip>

[https://\[Redacted\]/software/vmware/vsphere/ucs-vcplugin-1.1.1.zip](https://[Redacted]/software/vmware/vsphere/ucs-vcplugin-1.1.1.zip)

Submit

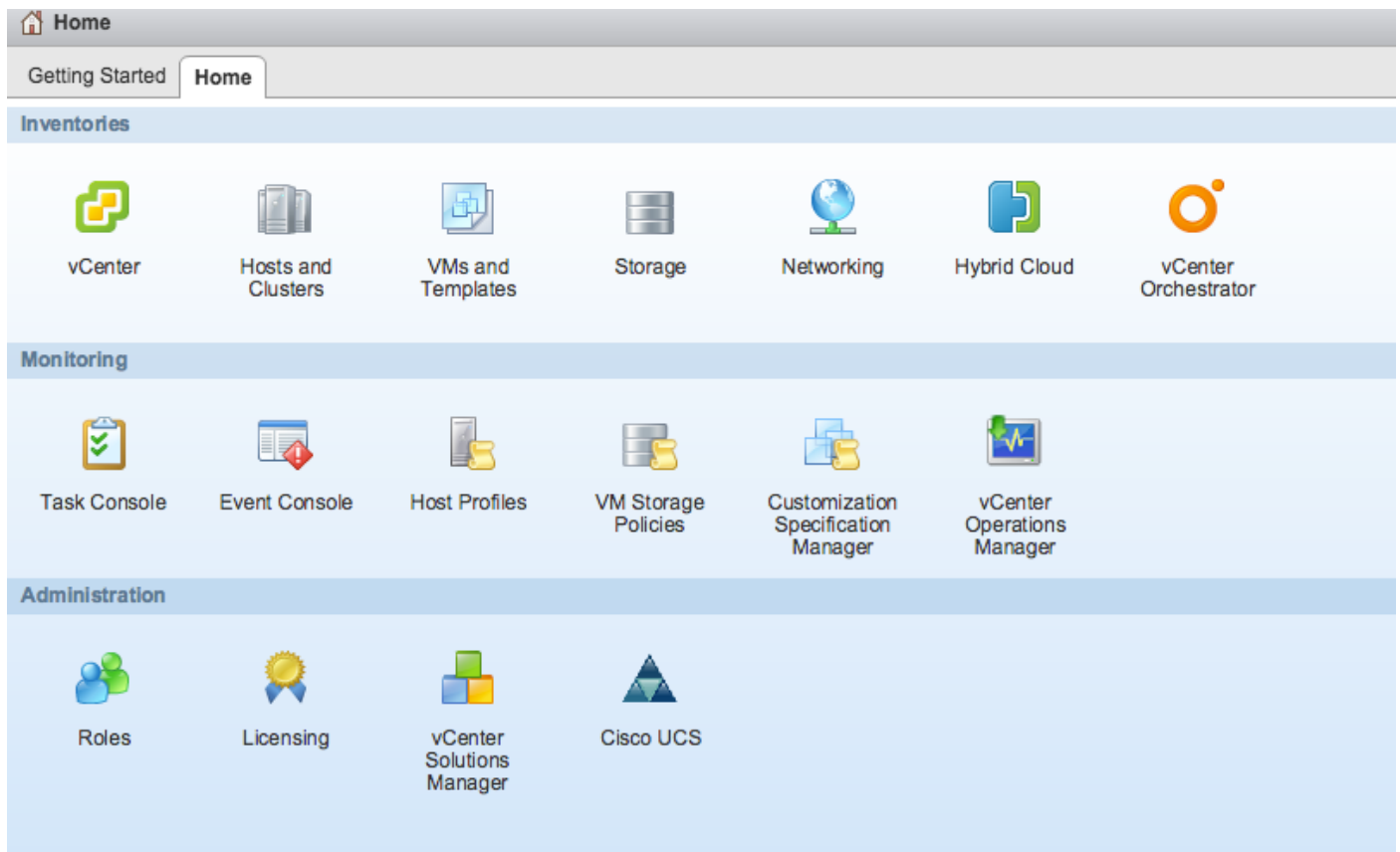
Cancel



- 如果要注销UCS Manager插件，请选中Unregister Plugin复选框并填写字段。
- 如果正在重新注册，您可能会看到“已注册！警告”对话框，其中显示消息：“Cisco Ucs插件 1.x已注册。如果插件文件已下载，则在手动删除并重新启动vSphere Web客户端服务之前，不会再次下载它们。” 查看消息，然后单击**确定**继续。

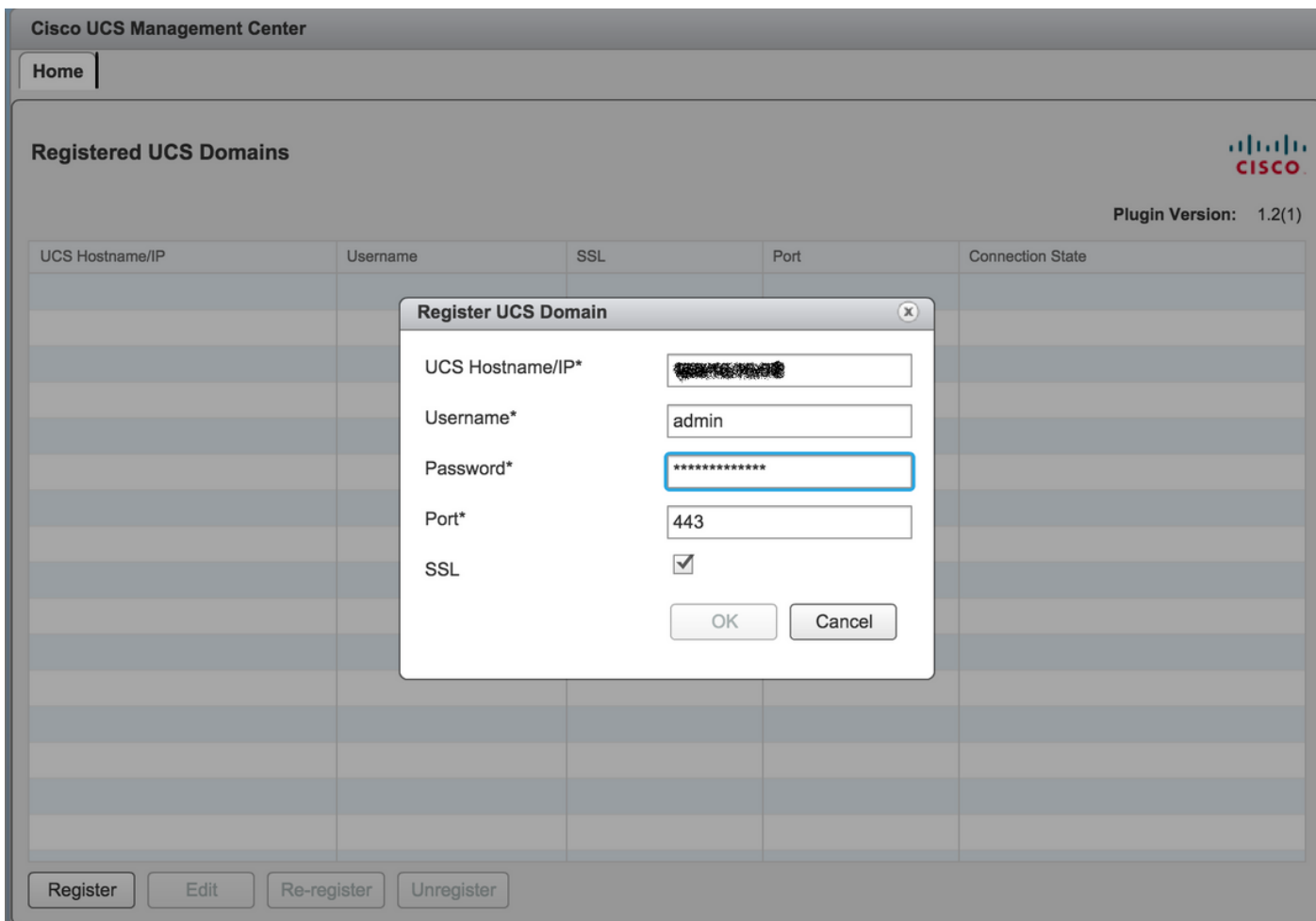
#### 第六步：

- 登录vCenter以检查是否安装了UCSM插件。

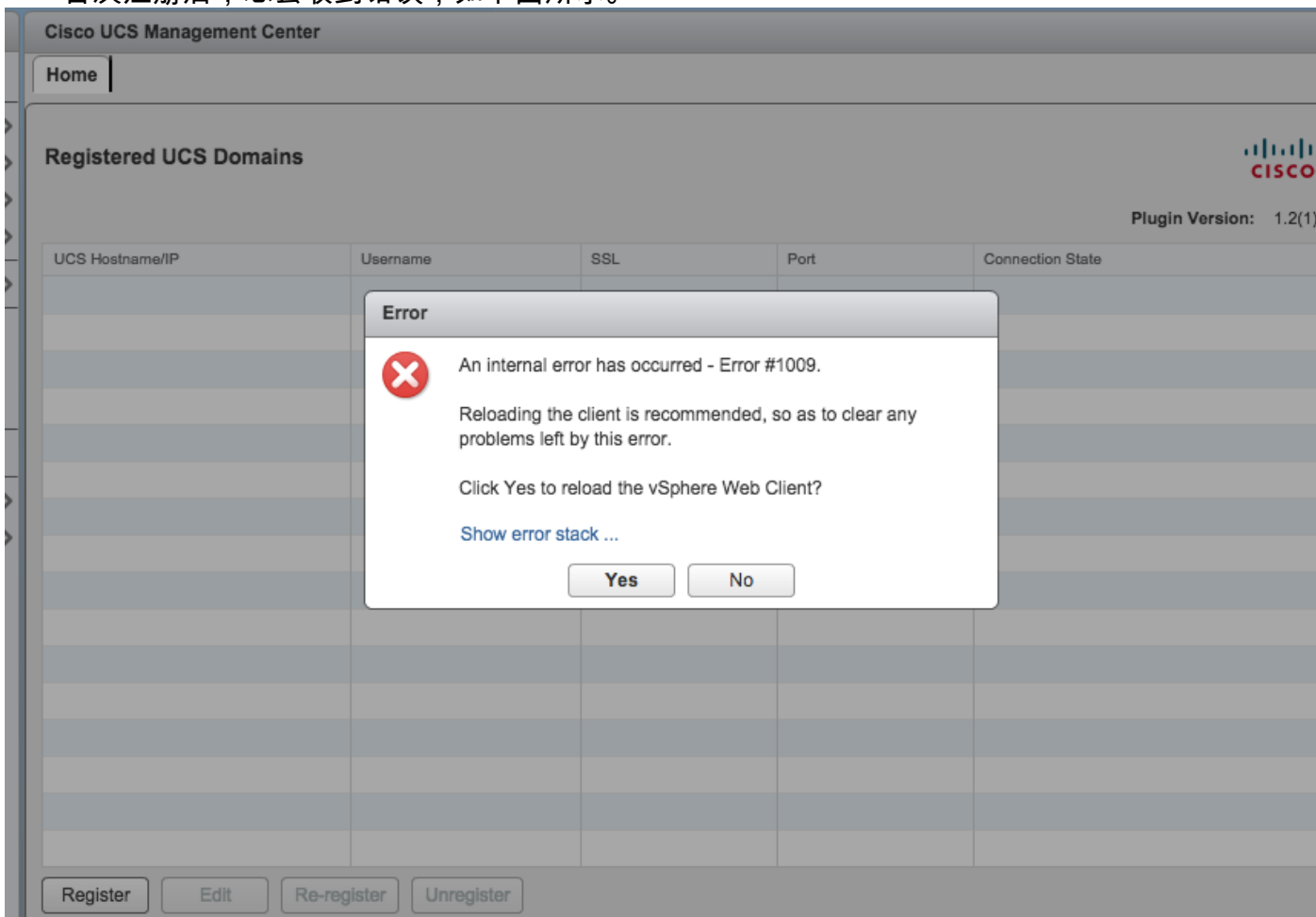


## 步骤 7 :

- 在vCenter上使用UCSM插件注册UCSM域。
- 双击Cisco UCS插件。
- 单击**Register**注册新的UCS域。



- 首次注册后，您会收到错误，如下图所示。





- 单击**Yes**重新加载vSphere Web客户端。登录后，您必须看到UCSM域已注册。

Cisco UCS Management Center

Home

Registered UCS Domains Plugin Version: 1.2(1)

| UCS Hostname/IP   | Username | SSL                                 | Port | Connection State |
|-------------------|----------|-------------------------------------|------|------------------|
| <b>[REDACTED]</b> | admin    | <input checked="" type="checkbox"/> | 443  |                  |
|                   |          |                                     |      |                  |
|                   |          |                                     |      |                  |
|                   |          |                                     |      |                  |
|                   |          |                                     |      |                  |
|                   |          |                                     |      |                  |
|                   |          |                                     |      |                  |
|                   |          |                                     |      |                  |
|                   |          |                                     |      |                  |
|                   |          |                                     |      |                  |
|                   |          |                                     |      |                  |

## 验证

### 步骤1:

- 检查UCSM域详细信息

vmware vSphere Web Client

Home Rack13-FI Actions

Summary Monitor Manage Related Objects

**Rack13-FI**

- Chassis: 1
- Rack Mounts: 0
- Fabric Interconnects: 2

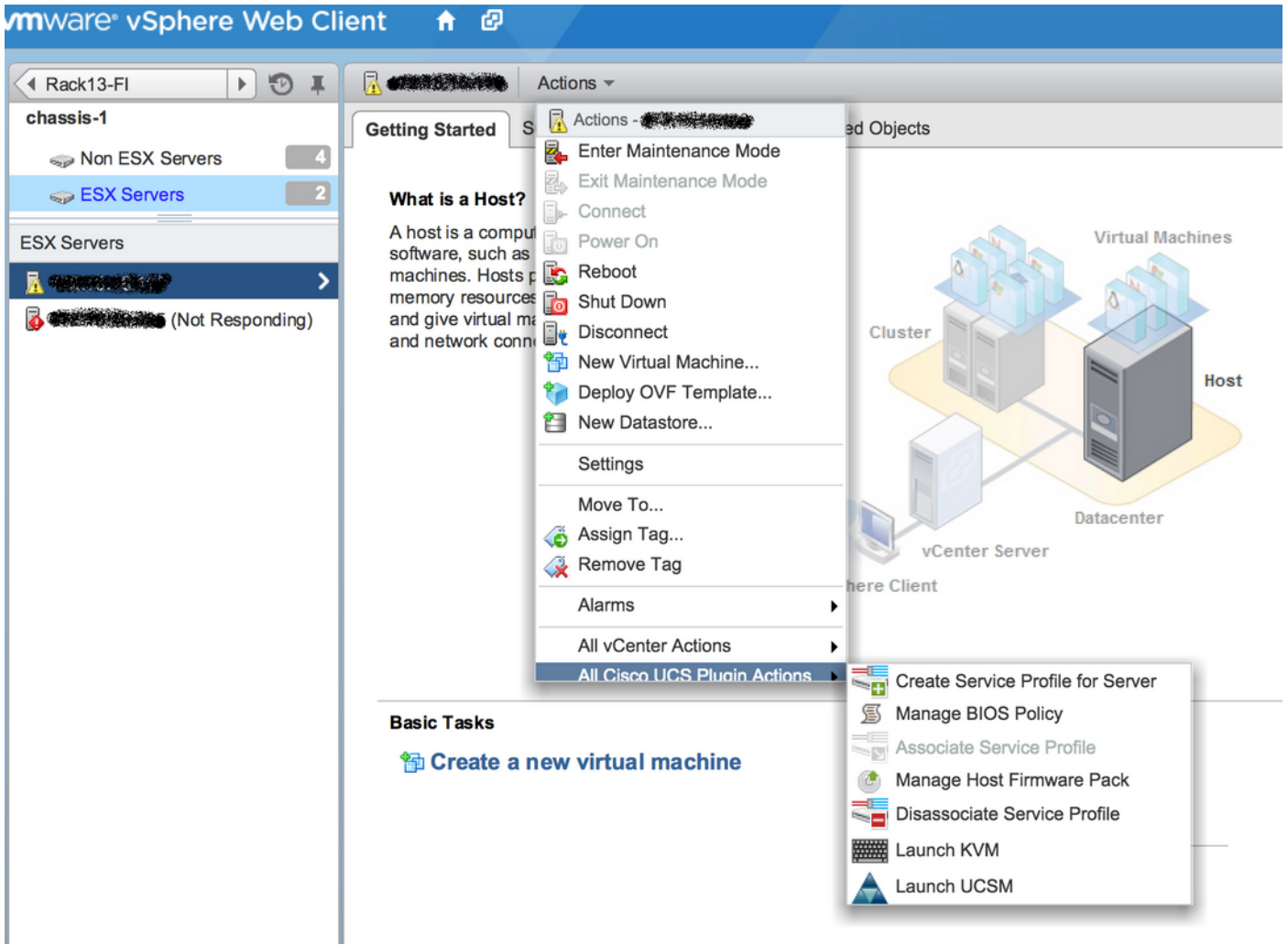
**Rack13-FI**

- Version: 2.2(5a) UCSM Version
- Virtual IPv4 Address: **[REDACTED]**
- HA Configuration: cluster
- Chassis: 1
- ESX Servers: 2 0
- Non-ESX Servers: 4 0
- VMs: 2

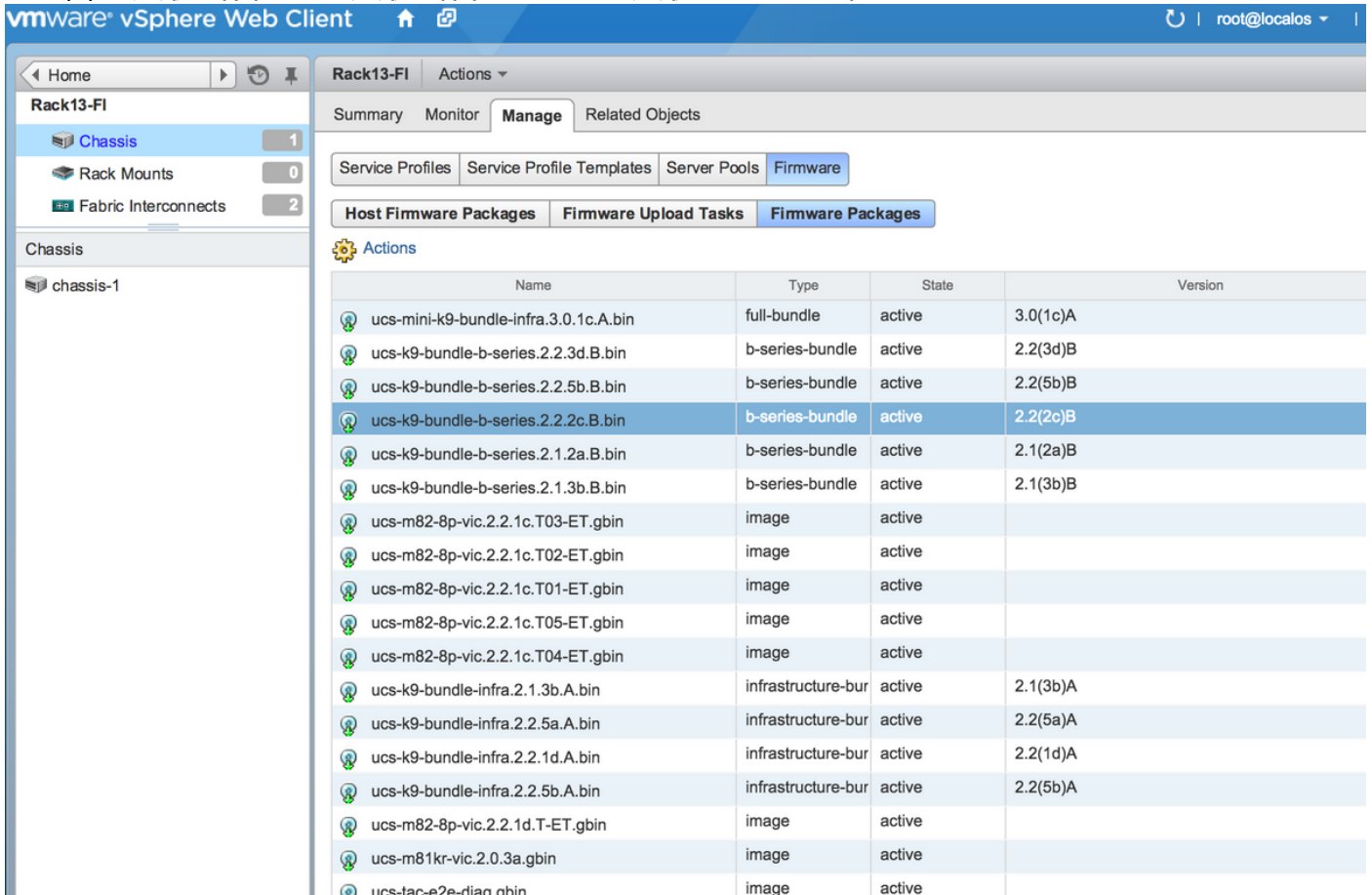
Chassis ID, Type of server, VM Details

**Fault Summary** Fault Summary 0 10 3 6

- UCSM插件选项



- 固件、服务配置文件、服务配置文件模板、服务器池等其他选项



# 故障排除

## 排除vCenter设备上UCSM插件安装故障 —

### 步骤1:

- 看看黑帮。

https://<vCenter

IP>/mob/?moid=ExtensionManager&doPath=extensionList%5b%22com%2ecisco%2eucs%2evcplugin%22%5d%2eserver

| NAME             | TYPE                | VALUE   |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
|------------------|---------------------|---|------|------|-------|-----------------|-------------------|--------------------------|-------------|--------|----------------------|-------------|-------------|--|---------|--------|--------------------|-----------------|-------------------|-------|-------------|--------|-------|-------|--------|--------------------|---------|--------|--------------------|-----------------|-------------------|-------|-------------|--------|-------|------------------|--------|-------|------|--------|---------------------------|-----|--------|---|
| [0]              | ExtensionServerInfo | <table border="1"><thead><tr><th>NAME</th><th>TYPE</th><th>VALUE</th></tr></thead><tbody><tr><td>adminEmail</td><td>string[]</td><td>"ucs-vcplugin@cisco.com"</td></tr><tr><td>company</td><td>string</td><td>"Cisco Systems Inc."</td></tr><tr><td>description</td><td>Description</td><td><table border="1"><thead><tr><th>NAME</th><th>TYPE</th><th>VALUE</th></tr></thead><tbody><tr><td>dynamicProperty</td><td>DynamicProperty[]</td><td>Unset</td></tr><tr><td>dynamicType</td><td>string</td><td>Unset</td></tr><tr><td>label</td><td>string</td><td>"Cisco UCS Plugin"</td></tr><tr><td>summary</td><td>string</td><td>"Cisco UCS Plugin"</td></tr></tbody></table></td></tr><tr><td>dynamicProperty</td><td>DynamicProperty[]</td><td>Unset</td></tr><tr><td>dynamicType</td><td>string</td><td>Unset</td></tr><tr><td>serverThumbprint</td><td>string</td><td>Unset</td></tr><tr><td>type</td><td>string</td><td>"vsphere-client-serenity"</td></tr><tr><td>url</td><td>string</td><td>"http://&lt;vCenter IP&gt;/ucsvcplugin-1.2.1.zip"</td></tr></tbody></table> | NAME | TYPE | VALUE | adminEmail      | string[]          | "ucs-vcplugin@cisco.com" | company     | string | "Cisco Systems Inc." | description | Description | <table border="1"><thead><tr><th>NAME</th><th>TYPE</th><th>VALUE</th></tr></thead><tbody><tr><td>dynamicProperty</td><td>DynamicProperty[]</td><td>Unset</td></tr><tr><td>dynamicType</td><td>string</td><td>Unset</td></tr><tr><td>label</td><td>string</td><td>"Cisco UCS Plugin"</td></tr><tr><td>summary</td><td>string</td><td>"Cisco UCS Plugin"</td></tr></tbody></table> | NAME    | TYPE   | VALUE              | dynamicProperty | DynamicProperty[] | Unset | dynamicType | string | Unset | label | string | "Cisco UCS Plugin" | summary | string | "Cisco UCS Plugin" | dynamicProperty | DynamicProperty[] | Unset | dynamicType | string | Unset | serverThumbprint | string | Unset | type | string | "vsphere-client-serenity" | url | string | "http://<vCenter IP>/ucsvcplugin-1.2.1.zip" |
| NAME             | TYPE                | VALUE   |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
| adminEmail       | string[]            | "ucs-vcplugin@cisco.com"  |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
| company          | string              | "Cisco Systems Inc."  |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
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| NAME             | TYPE                | VALUE   |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
| dynamicProperty  | DynamicProperty[]   | Unset   |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
| dynamicType      | string              | Unset   |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
| label            | string              | "Cisco UCS Plugin"  |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
| summary          | string              | "Cisco UCS Plugin"  |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
| dynamicProperty  | DynamicProperty[]   | Unset   |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
| dynamicType      | string              | Unset   |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
| serverThumbprint | string              | Unset   |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
| type             | string              | "vsphere-client-serenity"   |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |
| url              | string              | "http://<vCenter IP>/ucsvcplugin-1.2.1.zip"   |      |      |       |                 |                   |                          |             |        |                      |             |             |  |         |        |                    |                 |                   |       |             |        |       |       |        |                    |         |        |                    |                 |                   |       |             |        |       |                  |        |       |      |        |                           |     |        |   |

- 确保看到ucs-vcplugin zip文件。

### 第 2 步

- 检查vCenter能否访问承载插件文件的HTTP服务器。
- 检查vCenter上安装的vClient能否到达https/http插件位置。
- 执行检查可达性。
- 检查HTTPS访问。这是一个\*不工作\*安装，其中vCenter无法通过HTTPS服务器进行身份验证。

```
localhost:/tmp # wget https://<HTTP/HTTPS server IP>/<Plugin location>/ucsvcplugin-1.2.1.zip
--2016-02-25 07:02:15-- https://<HTTP/HTTPS server IP>/<Plugin location>/ucsvcplugin-1.2.1.zip
Connecting to <HTTP/HTTPS server IP>:443... connected.
ERROR: cannot verify <HTTP/HTTPS server IP>'s certificate, issued by `C=--
/ST=SomeState/L=SomeCity/O=AutoGenerated/OU=SelfSignedCertificate/CN=openfiler/emailAddress=root
@openfiler':
Unable to locally verify the issuer's authority.
ERROR: certificate common name `openfiler' doesn't match requested host name `<HTTP/HTTPS server
IP>'.
To connect to 172.16.15.222 insecurely, use `--no-check-certificate'.
Unable to establish SSL connection.
```

- 检查HTTP访问。这是HTTP服务器上的wget的一个有效示例 —

```
localhost:/tmp # wget http://<HTTP/HTTPS server IP>/ucs-vcplugin-1.2.1.zip
-2016-03-03 20:35:31-- http://<HTTP/HTTPS server IP>/ucs-vcplugin-1.2.1.zip
Connecting to <HTTP/HTTPS server IP>:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 19486526 (19M) [application/zip]
Saving to: `ucs-vcplugin-1.2.1.zip.1'
```

```
100%[=====] 19,486,526 110M/s in
0.2s
```

```
2016-03-03 20:35:31 (110 MB/s) - `ucs-vcplugin-1.2.1.zip.1' saved [19486526/19486526]
```