

# Install, Configure and Troubleshoot Cisco UCSM Plugin for vSphere Web Client

## Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Configure](#)

[Verify](#)

[Troubleshoot](#)

## Introduction

This document describes how to install, configure and troubleshoot Cisco UCS Manager Plugin for vSphere Web Client. Cisco UCSM plugin is an extension for the vSphere Web Client v5.5 and onwards. It enables virtualization administrators to view, manage and monitor various aspects of Cisco UCS physical infrastructure. The result is a single pane for Virtual Center users to get both physical and virtual infrastructure information for a given hypervisor.

## Prerequisites

### Requirements

Cisco Recommends you to have a knowledge of ,

- Cisco UCS and UCS Manager (UCSM 2.x & 3.x)
- VMWare vCenter
- HTTP/HTTPS server to host vCenter plugin

### Components Used

The information in this document is based on these software and hardware versions





- vCenter 5.5 or above
- Cisco UCS Manager plugin 1.x (1.1.1 and 1.2.1)
- UCS Manager 2.2
- VMware vSphere web client 5.5
- Plugin package hosted on HTTP or HTTPS server.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any changes or configurations.

# Configure

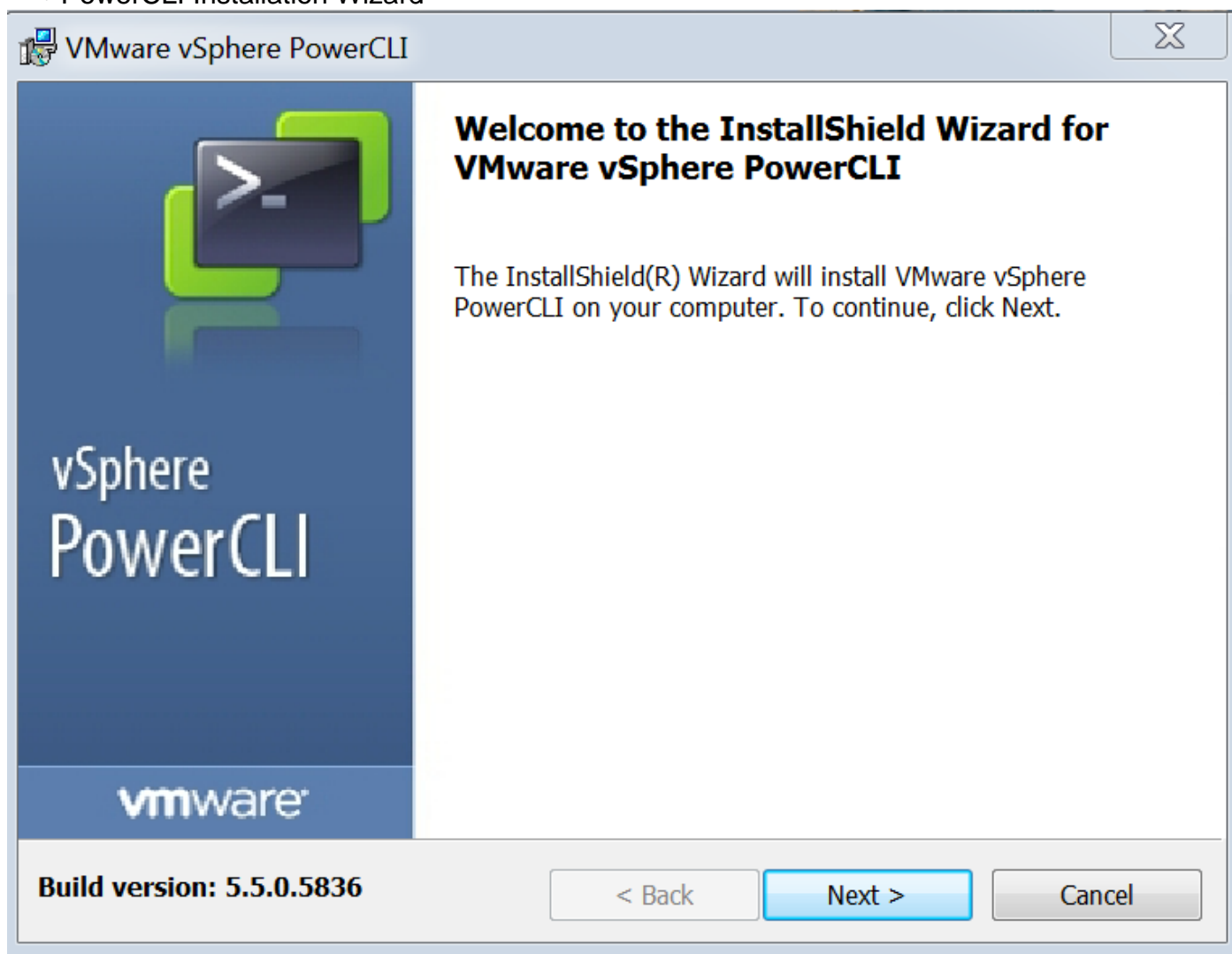
## Step 1.

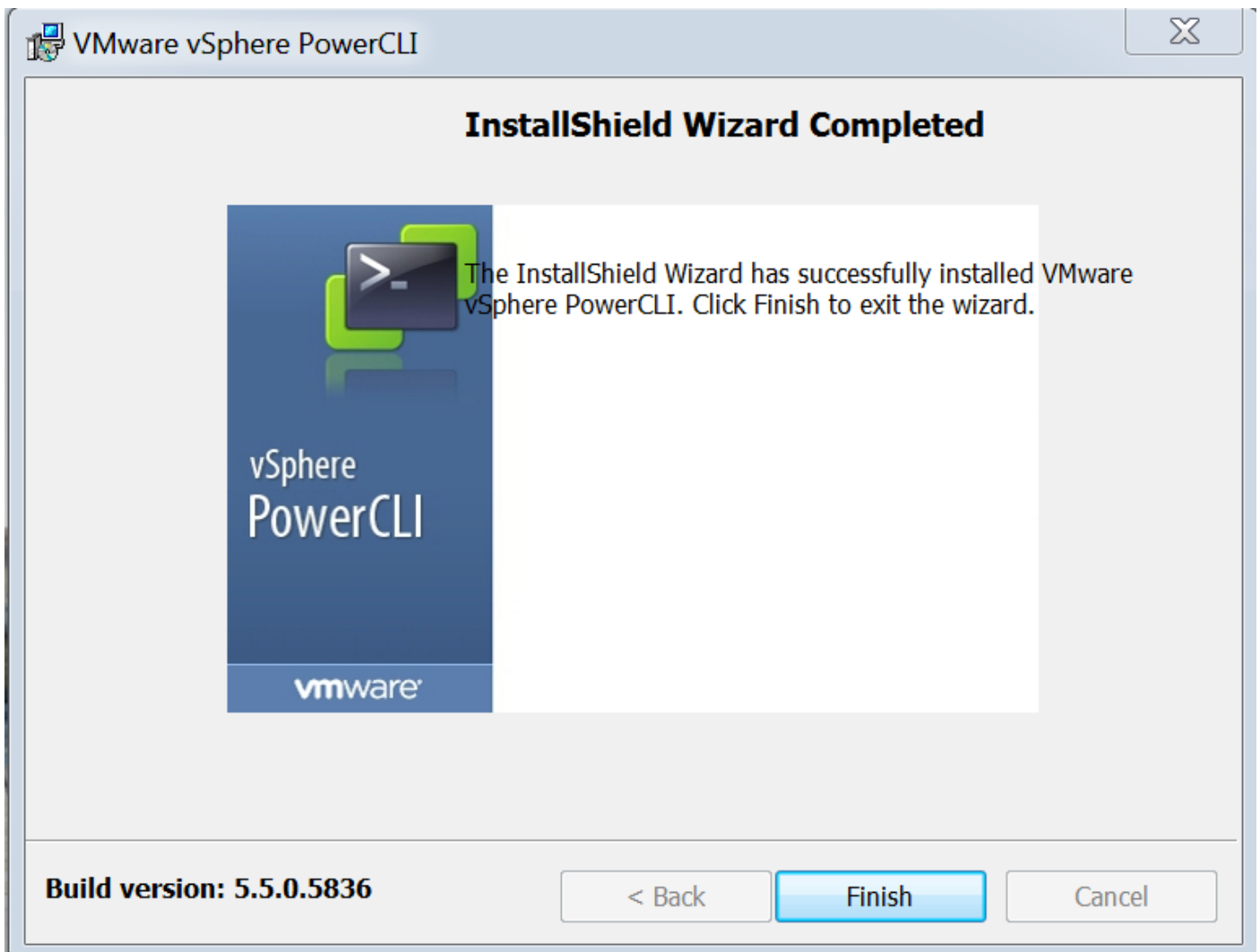
- Download the plugin and registration tool zip files available at: [http://www.cisco.com/Cisco UCS Manager Plugin for VMware vSphere Web Client](http://www.cisco.com/Cisco_UCS_Manager_Plugin_for_VMware_vSphere_Web_Client)  
[Cisco UCS Manager Plugin Registration Tool](http://www.cisco.com/Cisco_UCS_Manager_Plugin_Registration_Tool)

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

## Step 2.

- Install VMware PowerCLI 5.1 or higher to run the registration tool.
- Install VMware vCenter 5.1 or higher.
- PowerCLI Installation Wizard -















### Step 3.

- Install VMware vSphere web client 5.5 and its pre-requisites.
- For information on VMware vSphere web client pre-requisites refer - [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)
- Install a vCenter. The example in this document uses vCenter 5.5 appliance.

### Step 4.

- Plugin package hosted on HTTP or HTTPS server

# 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	

## Step 5.

- Unzip the registration tool and double-click to launch it. Cisco UCS Plugin Registration Tool screen appears.
- To register a new plugin, configure the fields: IP/Hostname - IP or hostname of the vCenter server. Username - vCenter user name. Password - vCenter password. Plugin location: - HTTPS/HTTP URL of the plugin zip file. For example, <https://10.1x.1x.1/plugins/ucs/ucs-vcplugin-1.1.1.zip>. Click **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

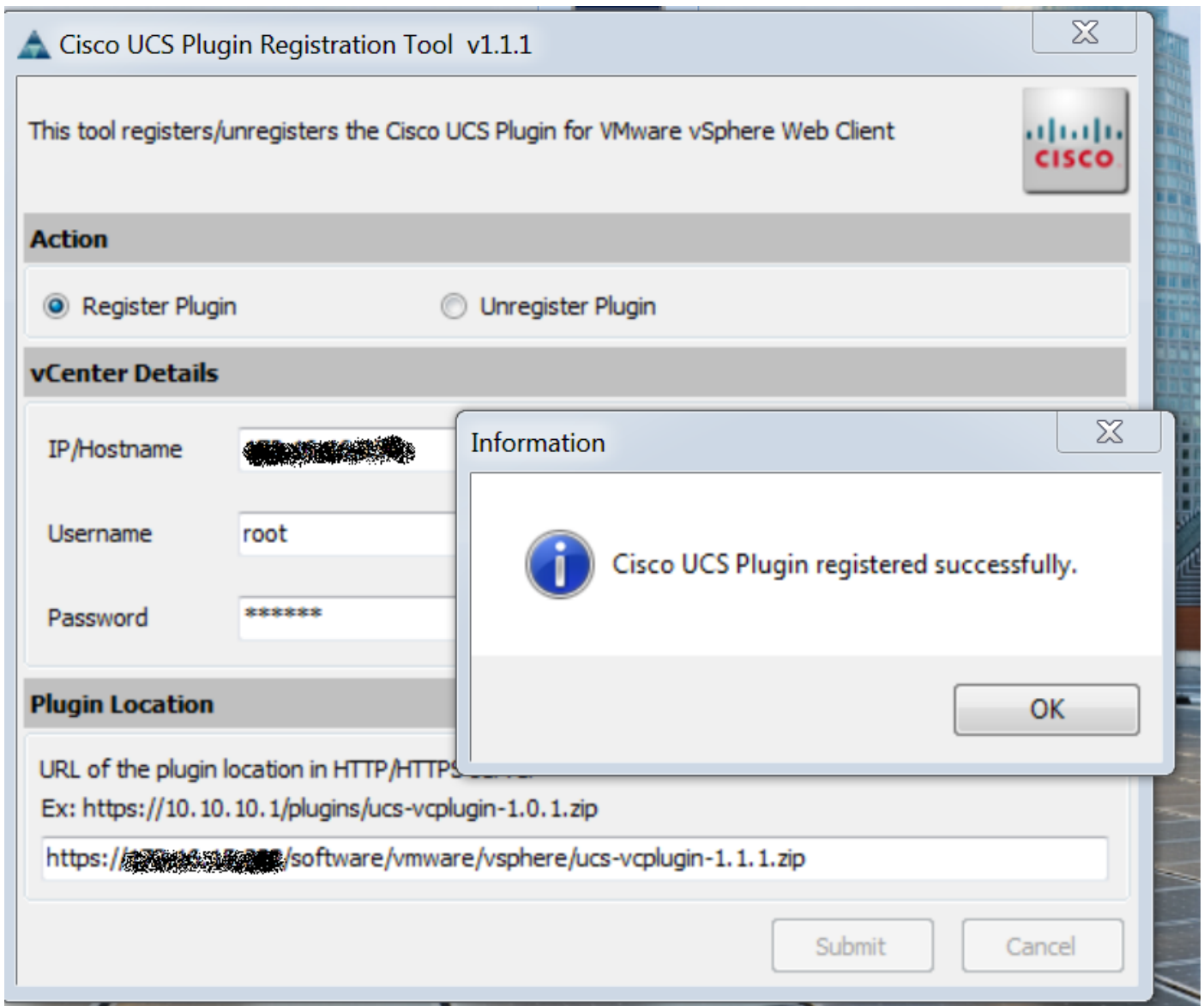
URL of the plugin location in HTTP/HTTPS server

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

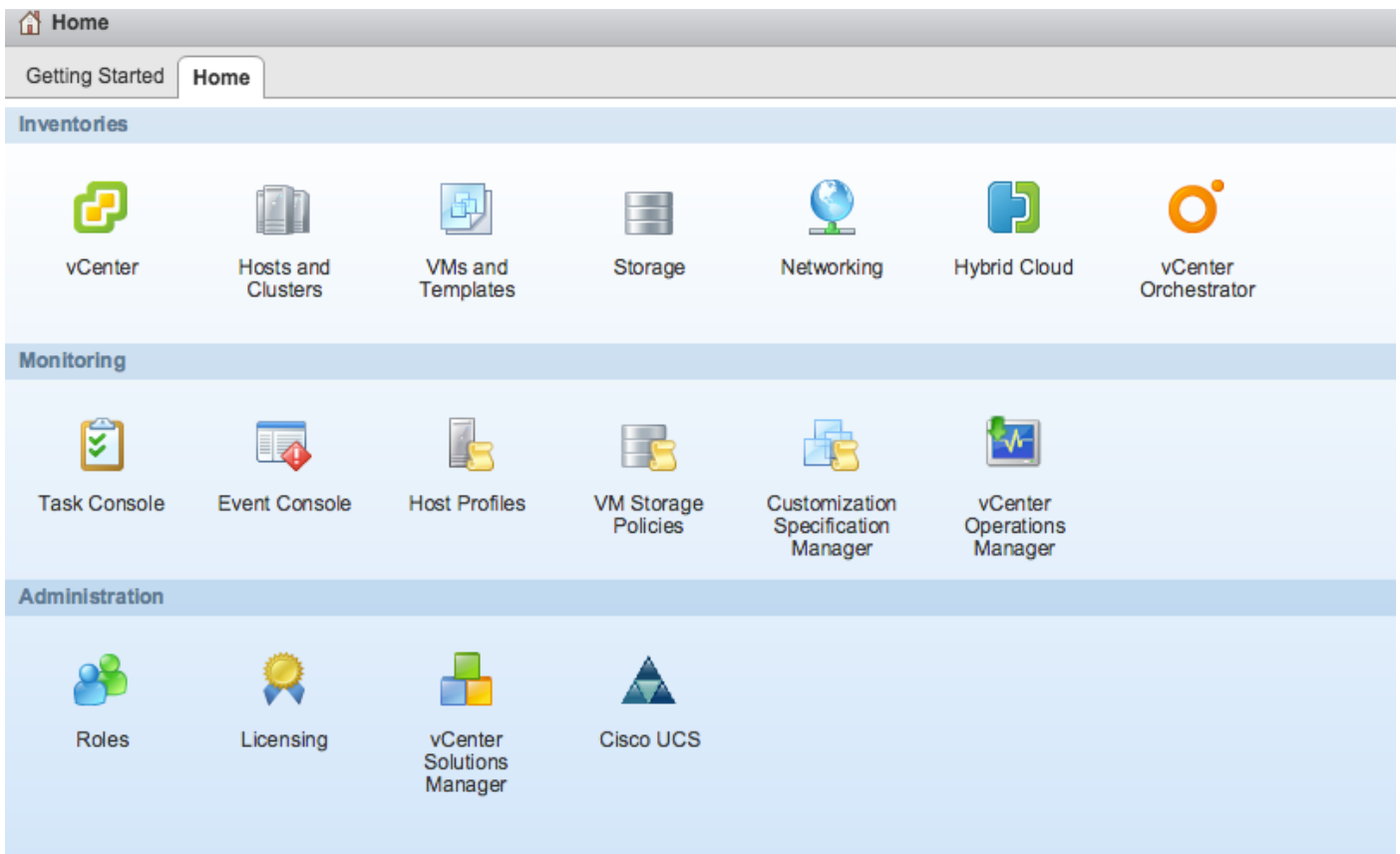
Cancel



- If you want to unregister a UCS Manager plugin, check the Unregister Plugin check box and complete the fields.
- If you are re-registering, you may see **Already Registered!** warning dialog box, with the message: "Cisco Ucs plugin 1.x is already registered. If the plugin files are already downloaded, they won't be downloaded again until they are removed manually and vSphere web client service is restarted." Review the message and click **OK** to continue.

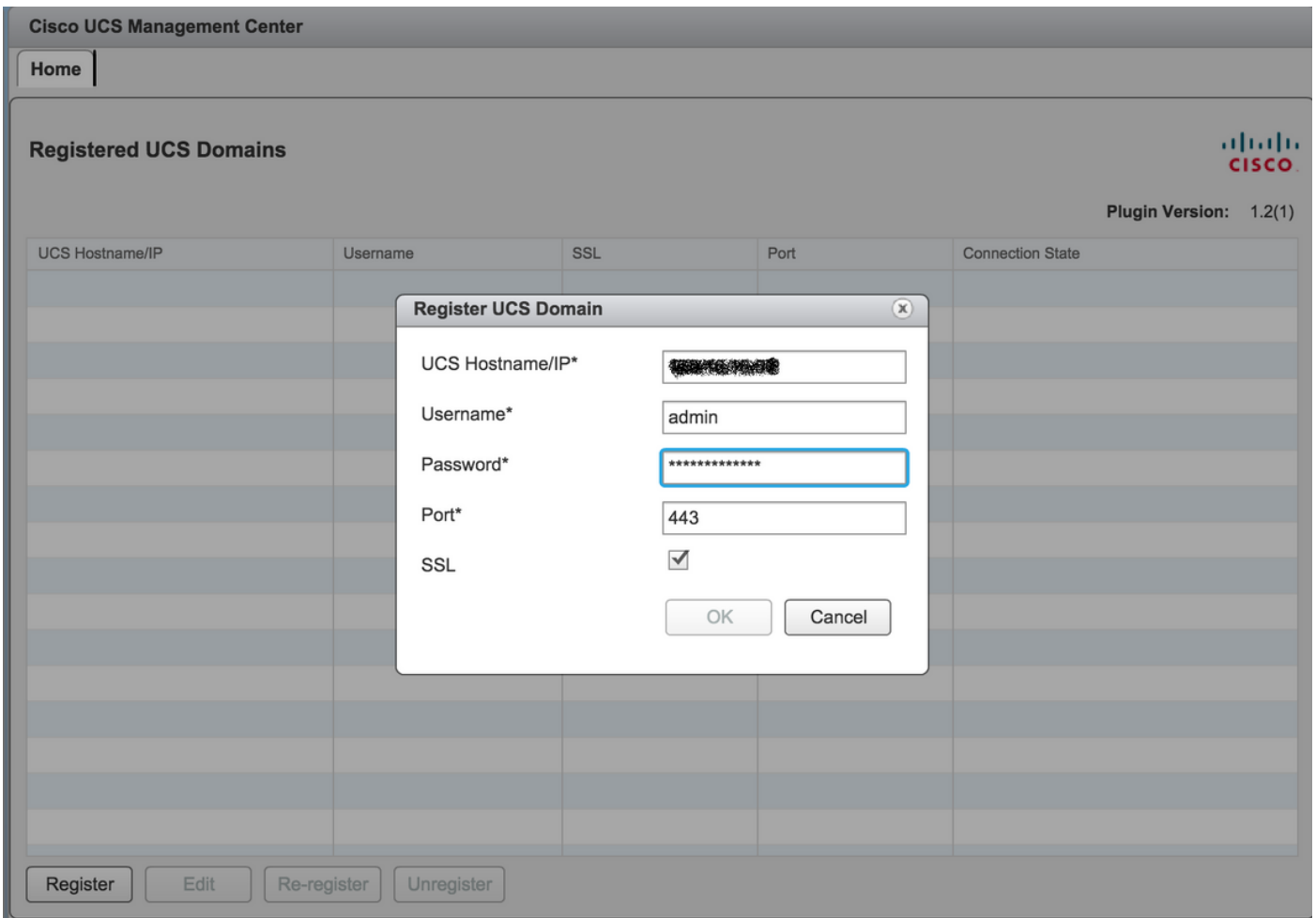
#### Step 6.

- Login to vCenter to check if the UCSM Plugin is installed.

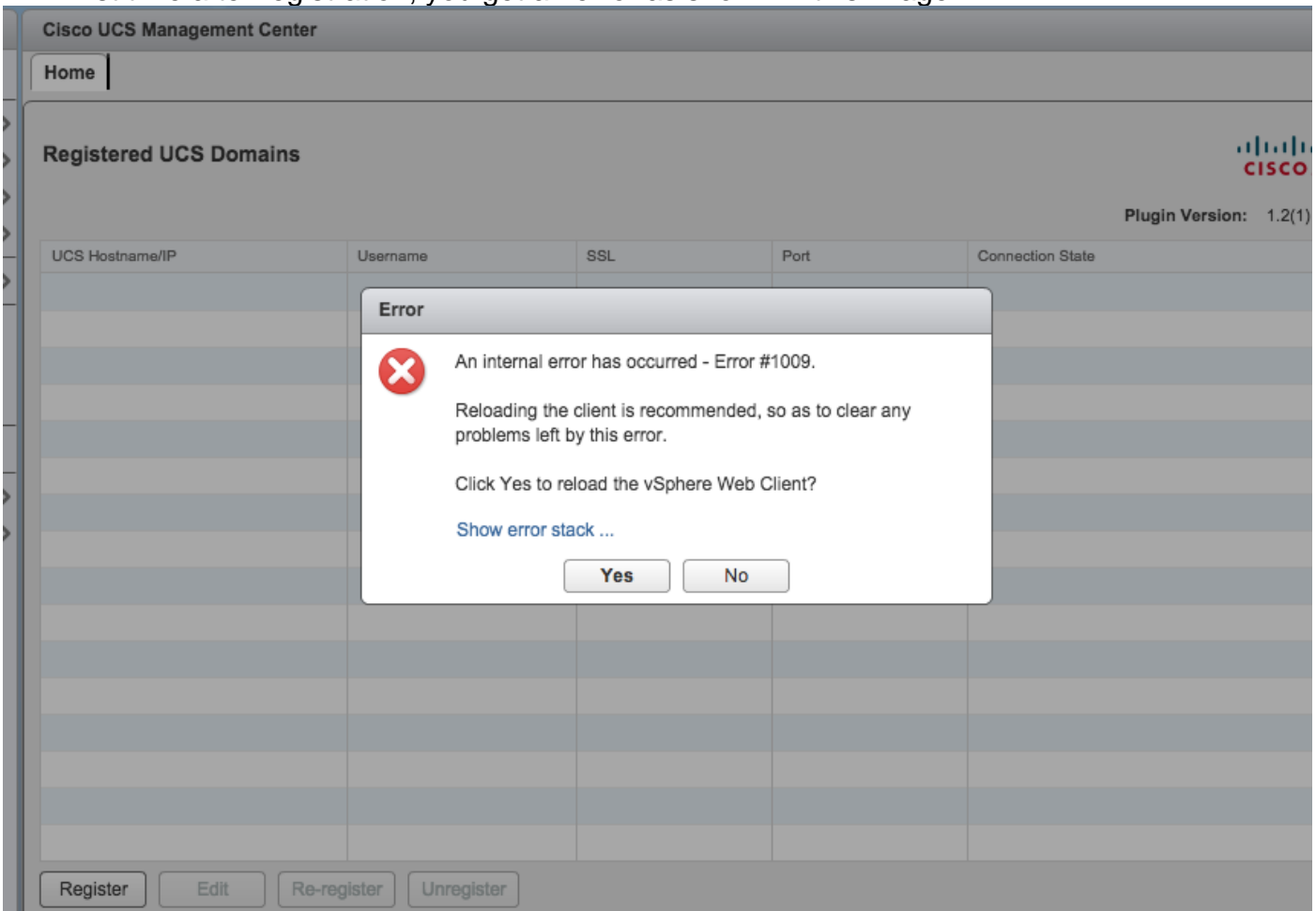


## Step 7:

- Register UCSM Domain using UCSM Plugin on vCenter.
- Double click on the Cisco UCS plugin.
- Click **Register** to register new UCS domain.



- First time after registration, you get an error as shown in this image.







- Click **Yes** to reload the vSphere Web Client. Once you login back you must see the UCSM domain Registered.

Cisco UCS Management Center

Home

Registered UCS Domains CISCO

Plugin Version: 1.2(1)

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

## Verify

### Step 1.

- Check the UCSM Domain details


vmware vSphere Web Client root@localos | Help

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

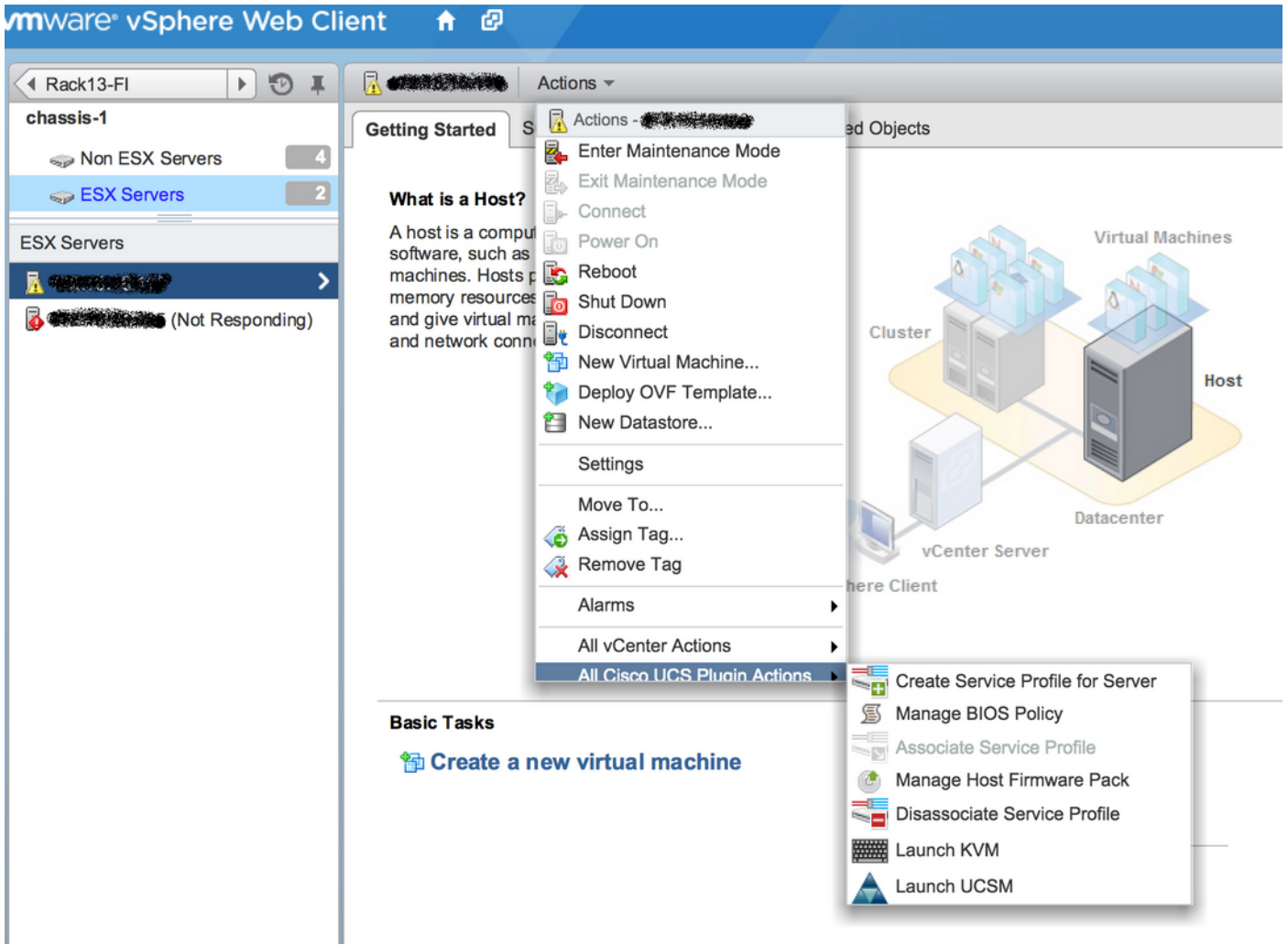
Chassis ID, Type of server, VM Details

**Fault Summary** Fault Summary

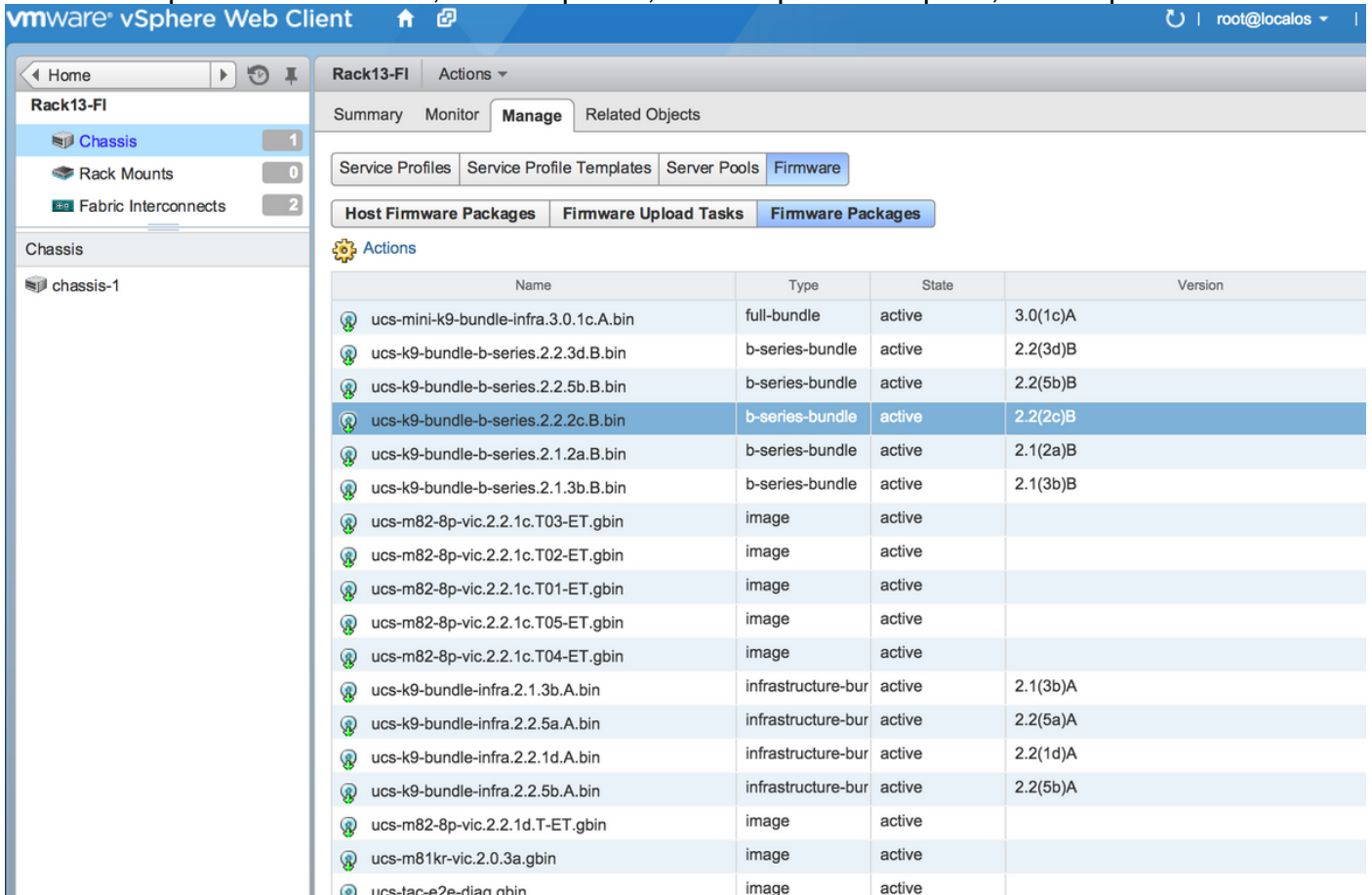
 0  10  3  6

CISCO

- UCSM Plugin options



- Other options as Firmware, Service profile, Service profile template, Server pool



# Troubleshoot

## Troubleshoot UCSM Plugin installation on vCenter appliance-

### Step 1.

- Check the MOB here-  
<https://<vCenter IP>/mob/?moid=ExtensionManager&doPath=extensionList%5b%22com%2ecisco%2eucs%2evcplugin%22%5d%2eserver>

Home Logout

Data Object Type: **ExtensionServerInfo[]**  
Parent Managed Object ID: **ExtensionManager**  
Property Path: **extensionList["com.cisco.ucs.vcplugin"].server**

Properties

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://[REDACTED]/ucs-vcplugin-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://[REDACTED]/ucs-vcplugin-1.2.1.zip"
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"																											
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://[REDACTED]/ucs-vcplugin-1.2.1.zip"																																										

- Make sure we see the ucs-vcplugin zip file.

### Step2.

- Check if the vCenter is able to access the HTTP server where the plugin file is hosted.
- Check if the vClient which is installed on the vCenter is able to reach the https/http plugin location.
- Do a wget to check the reachability.
- Check HTTPS access. This is a \*non working\* setup where vCenter could not authenticate with HTTPS server.

```
localhost:/tmp # wget https://<HTTP/HTTPS server IP>/<Plugin location>/ucs-vcplugin-1.2.1.zip
--2016-02-25 07:02:15-- https://<HTTP/HTTPS server IP>/<Plugin location>/ucs-vcplugin-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.
```

- Check HTTP access. This is a working example for a wget on HTTP server-

```
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]