Compute Cartridge Management

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Compute Cartridges

Compute cartridges consist of up to two Cisco UCS servers. Each individual server is independently manageable through its own CIMC instance, and has its own memory and CPU. The cartridge does not contain any I/O adapters or local storage within it.

Acknowledging a Cartridge Slot in a Chassis

Perform the following procedure to discover the cartridge if the cartridge slot is in the mismatch state.

- **Note**
  When a cartridge is replaced by another cartridge or relocated to a new slot in the same chassis or a different chassis, it goes into the mismatch state.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Command or Action</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Step 1</strong></td>
<td>UCS-A# <strong>acknowledge cartridge-slot chassis-id / cartridge-id</strong></td>
<td>Acknowledges the specified cartridge slot.</td>
</tr>
<tr>
<td><strong>Step 2</strong></td>
<td>UCS-A# <strong>commit-buffer</strong></td>
<td>Commits the transaction to the system configuration.</td>
</tr>
</tbody>
</table>

**Example**

The following example acknowledges cartridge 1 in chassis 1 and commits the transaction:
Removing a Cartridge from a Chassis

Before you begin
Physically remove the cartridge from its chassis before performing the following procedure.

Procedure

<table>
<thead>
<tr>
<th>Command or Action</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>UCS-A# remove cartridge (\text{chassis-num} / \text{cartridge-num})</td>
</tr>
<tr>
<td>Step 2</td>
<td>UCS-A# commit-buffer</td>
</tr>
</tbody>
</table>

Example
The following example removes cartridge 1 in chassis 1 and commits the transaction:

UCS-A# remove cartridge 1/1
UCS-A* # commit-buffer
UCS-A #

What to do next
If you physically re-install the cartridge, you must re-acknowledge the cartridge to have Cisco UCS Manager rediscover the cartridge.

Showing the Status of Cartridges

Procedure

<table>
<thead>
<tr>
<th>Command or Action</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>UCS-A# show cartridge status [detail]</td>
</tr>
</tbody>
</table>

Example
The following example shows the status of all the cartridges in the Cisco UCS domain:
UCS-A# show cartridge status

<table>
<thead>
<tr>
<th>Cartridge</th>
<th>Slot</th>
<th>Status</th>
<th>PID</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/1</td>
<td></td>
<td>Equipped</td>
<td>UCSME-1414</td>
</tr>
<tr>
<td>1/2</td>
<td></td>
<td>Equipped</td>
<td>UCSME-1414</td>
</tr>
<tr>
<td>1/3</td>
<td></td>
<td>Equipped</td>
<td>UCSME-1625</td>
</tr>
<tr>
<td>1/4</td>
<td></td>
<td>Equipped</td>
<td>UCSME-142-M4</td>
</tr>
<tr>
<td>1/5</td>
<td></td>
<td>Equipped</td>
<td>UCSME-2814</td>
</tr>
<tr>
<td>1/6</td>
<td></td>
<td>Equipped Not Primary</td>
<td>UCSME-2814</td>
</tr>
<tr>
<td>1/7</td>
<td></td>
<td>Equipped</td>
<td>UCSME-2814</td>
</tr>
<tr>
<td>1/8</td>
<td></td>
<td>Equipped Not Primary</td>
<td>UCSME-2814</td>
</tr>
</tbody>
</table>

The following example shows the detailed status of all the cartridges in the Cisco UCS domain.

UCS-A# show cartridge status detail

Cartridge 1/1:
- Product Name: Cisco UCSME-1414
- Presence: Equipped
- PID: UCSME-1414
- Vendor: Cisco Systems Inc
- Serial (SN): FCH19117PPK
- Revision: 0

Cartridge 1/2:
- Product Name: Cisco UCSME-1414
- Presence: Equipped
- PID: UCSME-1414
- Vendor: Cisco Systems Inc
- Serial (SN): FCH19117PPF
- Revision: 0

Cartridge 1/3:
- Product Name: Cisco UCSME-1625
- Presence: Equipped
- PID: UCSME-1625
- Vendor: Cisco Systems Inc
- Serial (SN): FCH1943JC3T
- Revision: 0

Cartridge 1/4:
- Product Name: Cisco UCSME-142-M4
- Presence: Equipped
- PID: UCSME-142-M4
- Vendor: Cisco Systems Inc
- Serial (SN): FCH18367M3W
- Revision: 0

Showing the Status of all Servers in a Cartridge

You can display the status of all servers in a cartridge from the cartridge mode.
### Procedure

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Command or Action</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UCS-A# scope chassis chassis-num</td>
<td>Enters chassis mode for the specified chassis.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 2</td>
<td>UCS-A /chassis# scope cartridge cartridge-id</td>
<td>Enters cartridge mode for the specified cartridge ID.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 3</td>
<td>UCS-A /chassis/cartridge# show server</td>
<td>Shows the status for all servers in the specified cartridge.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Step 4</td>
<td>(Optional) UCS-A /chassis/cartridge# show server detail</td>
<td>Shows detailed information of all servers in the specified cartridge.</td>
</tr>
</tbody>
</table>

### Example

The following example shows the status of all servers in the specified cartridge:

```
UCS-A# scope chassis 1
UCS-A /chassis # scope cartridge 4
UCS-A /chassis/cartridge # show server
Server:

<table>
<thead>
<tr>
<th>Instance ID</th>
<th>Model</th>
<th>Overall Status</th>
<th>Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UCSME-1414</td>
<td>Ok</td>
<td>Unavailable</td>
</tr>
</tbody>
</table>
```

The following example shows detailed information of all servers in the specified cartridge:

```
UCS-A /chassis/cartridge # show server detail
Server:

Instance ID: 1
Name:
User Label:
Overall Status: Ok
Oper Qualifier: N/A
Association: Associated
Availability: Unavailable
Discovery: Complete
Conn Path: A,B
Conn Status: A,B
Managing Instance: A
Admin Power: Policy
Oper Power: On
Admin State: In Service
Product Name: Cisco UCSME-1414
Equipped PID: UCSME-1414
Equipped VID: V00
Vendor: Cisco Systems Inc
Serial (SN): FCH19117PPF
Revision: 0
Mfg Date: 2015-04-17T00:00:00.000
Presence: Equipped
Part Number: 68-5701-01
Memory (MB): 32768
Effective Memory (MB): 32768
Operating Memory Speed (MHz): 1600
Operating Memory Voltage: Regular Voltage
```
Cores: 4
Num Of Cores Enabled: 4
Adapters: 0
Eth Host Interfaces: 2
FC Host Interfaces: 0
Burned-In UUID: e9a1623e-6fe9-4f41-a5c6-a8f7c4c00fd5
Dynamic UUID: e9a1623e-6fe9-4f41-a5c6-a8f7c4c00fd5
Current Task 1:
Current Task 2:
Showing the Status of all Servers in a Cartridge