

如何從VM啟動收集日誌

目錄

[簡介](#)

[VM啟動](#)

簡介

本文描述如何在Cisco Ultra服務平台(Ultra M)中的虛擬化封包核心(VPC)虛擬機器(VM)啟動並指向多個啟動時收集日誌。

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VM啟動

若要使用控制功能(CF)或服務功能(SF)來啟動VM，您可以包括此處介紹的多個步驟和檢查。監視虛擬機器時，必須通過Serial1，因為它包含所有調試日誌。

確定要監視的VM例項。

選項1.通過GUI登入到控制面板。

導覽至Admin > Instances，找到例如_c1的例項並找到計算主機，在此處的示例中，C1在計算1上，C2在計算2上。

Project	Host	Name	Image Name	IP Address	Size	Status	Task	Power State	Time since created	Actions
Core	ultram-tb2-mitaka-compute-1.localdomain	ultram-1.0.0-1_c1_0_4e7581f4-faec-49d5-910a-e965eb3ad7d4	-	ultram-di-internal1 192.168.1.15 ultram-di-internal2 192.168.2.15 ultram-tb2-uas-management 172.17.181.118 ultram-tb2-uas-orchestration 172.17.180.215	ultram-control-function	Active	None	Running	17 hours, 26 minutes	Edit Instance
Core	ultram-tb2-mitaka-compute-2.localdomain	ultram-1.0.0-1_c2_0_82b40e10-a4b8-4b23-bb0d-86d357fb67f6	-	ultram-di-internal1 192.168.1.4 ultram-di-internal2 192.168.2.4 ultram-tb2-uas-management 172.17.181.117	ultram-control-function	Active	None	Running	17 hours, 33 minutes	Edit Instance

定位至主控台端，然後檢查QEMU執行個體，如下圖所示。

If console is not responding to keyboard input, click the grey status bar below. [Click here to show only console](#)
To exit the fullscreen mode, click the browser's back button.

```

Connected (unencrypted) to: QEMU (instance-0000546)
Send Ctrl+Alt+Del

Image Version:                21.1.U0.private
Image Build Number:           private
Image Description:            Developer_Build
Image Date:                   Thu Mar 2 16:04:31 EST 2017
Boot Image:                   /flash/qvpe-uchitlur.bin
Source Commit ID:             eda89f88c2b3350cf0eb5585b56c86959e5c693f
[local]UltraM-TB2# 2017-Mar-02+19:25:05.869 [resmgr 14907 debug] [2/0/7448 <rmng
r:20> _resource_log.c:909] [software internal system critical-info syslog] RM-20
: rmmgr_collect_memstats_coproc_done: ahm memstats logged for cdfctrl instance 0
in memory warn state file <memstats-58b8e211-02-00-cdfctrl-0-7715>

2017-Mar-03+09:54:31.372 [tacacs+ 37200 error] [2/0/7663 <vpmngr:1> tac_utils.c:
22] [software internal system critical-info syslog] protocol error - Invalid AUT
HEN/REPLY packet, check keys.
2017-Mar-03+11:01:57.735 [tacacs+ 37200 error] [2/0/7663 <vpmngr:1> tac_utils.c:
22] [software internal system critical-info syslog] protocol error - Invalid AUT
HEN/REPLY packet, check keys.

[local]UltraM-TB2# 2017-Mar-03+11:02:06.754 [tacacs+ 37200 error] [2/0/7663 <vpm
ngr:1> tac_utils.c:22] [software internal system critical-info syslog] protocol
error - Invalid AUTHEN/REPLY packet, check keys.
2017-Mar-03+11:02:07.055 [tacacs+ 37200 error] [2/0/7663 <vpmngr:1> tac_utils.c:
22] [software internal system critical-info syslog] protocol error - Invalid AUT
HEN/REPLY packet, check keys.

```

選項2.從「病毒清單」中搜尋每個例項以查詢例項名稱。

source from undercloud: source stackrc

identify compute node's control IP: nova list

使用SSH控制具有heat-admin的計算節點的平面：ssh heat-admin@<IP地址>。

更改為根：sudo su

列出所有例項：病毒清單

通過控制檯連線到例項的serial 1:virsh console instance-<number> serial1

在插槽1中啟動CF時，此處的日誌包含多個主要專案。SF具有非常相似的啟動過程。

已手動重新啟動此卡：

```
[ 811.235666] Restarting system.
```

```
[ 811.235950] machine restart
```

標識卡型別：

```
platform_get_card_info CARDTYPE Read in 0x40010100 --> 0x40010100
```

讀取磁碟和系統引數：

```
"QEMU HARDDISK"
```

正在讀取啟動優先順序。注意~7秒。如果您看到超過30秒，則表示擷取映像時遇到問題。可能的問題：映像問題等

指示：電腦不計算對影象所在位置的訪問。塞普斯，或者煤渣。

Booting priority 1

image : /flash/qvpc-vchitlur.bin

config: /flash/day-N.cfg

flags : 0x0

Entry at 0x000000000c8f66f0

Total bytes read: 145289216 in 7.972 Sec (17797 KBytes/Sec)

獲取所有資訊並開始啟動過程：

Scale BootStrap RAM Image (32bit,SP,LE,X86)

啟動StarOS:

Invoking StarOS Image...

設定環境：

[0.000000] Linux version 2.6.38-staros-v3-scale-64 (yuel@bxb-mitg6-dev10) (gcc version 4.7.2 (GCC)) #1 SMP PREEMPT Thu Feb 23 16:10:46 EST 2017

Boxer進程被例項化：

Boxer /etc/rc beginning.

確定此託管環境QEMU並新增DVD-ROM:

[8.308582] scsi 0:0:0:0: Direct-Access ATA QEMU HARDDISK 2.3. PQ: 0 ANSI: 5

[8.309031] ata2.01: ATAPI: QEMU DVD-ROM, 2.3.0, max UDMA/100

[8.309521] ata2.01: configured for MWDMA2

[8.311612] sd 0:0:0:0: [sda] 8388608 512-byte logical blocks: (4.29 GB/4.00 GiB)

[8.312090] scsi 0:0:1:0: Direct-Access ATA QEMU HARDDISK 2.3. PQ: 0 ANSI: 5

[8.312878] sd 0:0:0:0: [sda] Write Protect is off

[8.312978] sd 0:0:1:0: [sdb] 33554432 512-byte logical blocks: (17.1 GB/16.0 GiB)

[8.313011] sd 0:0:1:0: [sdb] Write Protect is off

[8.313021] sd 0:0:1:0: [sdb] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA

[8.314286] scsi 1:0:1:0: CD-ROM QEMU QEMU DVD-ROM 2.3. PQ: 0 ANSI: 5

搜尋配置驅動器上的引數檔案：

```
...Looking for staros_param.cfg on config driveInitial card type is 64 ...Looking for param.cfg on boot1.
```

```
[ 8.414031] usb 1-1: new full speed USB device using uhci_hcd and address 2
```

對映staros_param.cfg檔案中的檔案引數，如果與/boot1/param.cfg中儲存的值有任何衝突，則優先使用：

```
Found param.cfg in local disk
Set 0x40010100 into sn_cardtype
: Found staros_param.cfg in config drive
```

裝載：

```
...mounting /var/crash from tmpfs
```

```
...Detected KVM Guest
```

```
...UUID DD2C2139-9E98-4C1B-B87F-83BBD9E8270B
```

新增NIC:

```
...loading networking kernel modules
```

```
...virtio net
```

```
[ 9.661076] Selected 1 Queues, Max-Queue = 1, Online CPUs=8
```

```
[ 9.663552] Selected 1 Queues, Max-Queue = 1, Online CPUs=8
```

```
...vmxnet3
```

```
[ 9.669130] VMware vmxnet3 virtual NIC driver - version 1.0.25.0-k-NAPI
```

```
...e1000
```

```
[ 9.677388] e1000: Intel(R) PRO/1000 Network Driver - version 7.3.21-k8-NAPI
```

```
[ 9.677909] e1000: Copyright (c) 1999-2006 Intel Corporation.
```

```
...e1000e
```

```
[ 9.687631] e1000e: Intel(R) PRO/1000 Network Driver - 1.2.20-k2
```

```
[ 9.688079] e1000e: Copyright(c) 1999 - 2011 Intel Corporation.
```

```
...mdio
```

```
...ixgbe
```

設定網路介面(NI):

```
...setting up network interfaces
```

DI內部更改VM上的MTU大小，應該啟用SR-IOV:

```
[ 10.399271] ixgbevfv: cpeth1: ixgbevfv_change_mtu: changing MTU from 1500 to 7020
```

```
...create vlan interface cpeth1.2111
```

啟動iftask:

```
waiting for iftask to start.....
```

```
waiting for iftask to start.....
```

啟動masterd以決定主CF角色：

```
start masterd 1 to decide master CF role
```

通過廣播來確定主/備用模式：

```
...Broadcasting presence to master CF
```

檢查巨型資料包：第一個小型ping、中型和巨型資料包：

```
Pinging(size=56) master slot : card2
```

```
Pinging(size=1472) master slot : card2
```

```
Pinging(size=6992) master slot : card2
```

```
Virtual network connectivity OK!
```

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。