

如何从VM启动收集日志

目录

[简介](#)

[VM启动](#)

简介

本文档介绍当思科超服务平台(Ultra M)中的虚拟化数据包核心(VPC)虚拟机(VM)启动并指向多个启动时如何收集日志。

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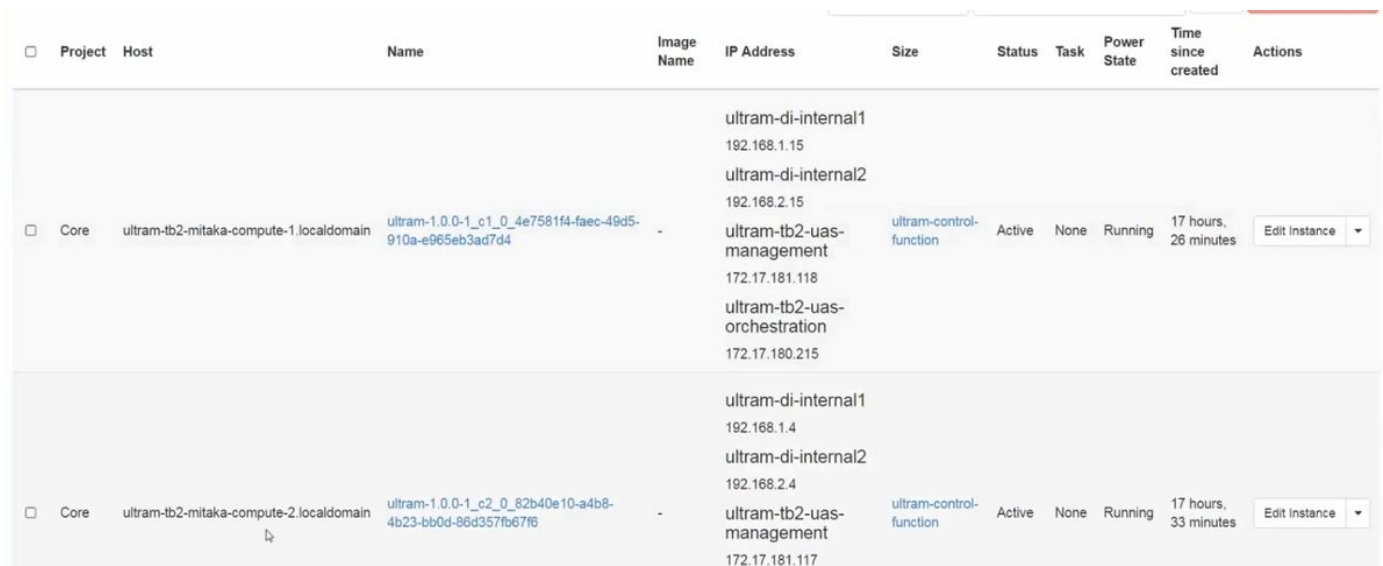
VM启动

要启动具有控制功能(CF)或服务功能(SF)的虚拟机，可以包含多个步骤和检查，此处介绍这些步骤和检查。当您监控虚拟机时，它必须通过Serial1，因为其中包括所有调试日志。

确定要监控的VM实例。

第 1 项.通过GUI登录控制面板。

导航到**Admin > Instances**，查找例如_c1的实例并查找计算主机，在此处的示例中，C1位于计算1上，C2位于计算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

导航到控制台端并检查QEMU实例，如此图所示。

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 CtrlAltDel

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-vcHitlur.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.

```

第 2 项.从“病毒列表”中搜索每个实例以查找实例名称。

source from undercloud: source stackrc

identify compute node's control IP: nova list

使用heat-admin控制计算节点平面的SSH:ssh heat-admin@<IP地址>。

更改为根 : **sudo su**

列出所有实例 : **病毒列表**

通过控制台连接到实例的串行1:**virsh console instance-<number> serial1**

此处的日志在插槽1中启动CF时包含多个主要项目。SF具有非常相似的启动过程。

已手动重新启动此卡 :

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

```
[ 811.235950] machine restart
```

识别卡类型 :

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

读取磁盘和系统参数 :

```
"QEMU HARDDISK"
```

正在读取引导优先级。注意~7秒。如果您看到超过30秒，则表示获取映像时出现问题。可能的问题：
：映像问题等

指示：计算机不计算对映像所在位置的访问。塞普斯，还是辛德。

Booting priority 1

image : /flash/qvpc-vchitlur.bin

config: /flash/day-N.cfg

flags : 0x0

Entry at 0x00000000c8f66f0

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

获取所有信息并开始启动过程：

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

启动StarOS:

Invoking StarOS Image...

设置环境：

[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进程实例化：

Boxer /etc/rc beginning.

确定此托管环境QEMU并添加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

搜索配置驱动器上的参数文件：

```
...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
```

映射staros_param.cfg文件中的文件参数，如果与/boot1/param.cfg中存储的值存在任何冲突，则优先使用该参数：

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

安装：

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

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

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

添加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
```

设置网络接口(NI):

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

DI在VM上更改MTU大小，应启用SR-IOV:

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

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

开始任务：

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

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

启动masterd以决定主CF角色：

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

用于判断主/备用模式的广播卡：

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

检查巨型数据包：第一个小型ping、中型和巨型ping:

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

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

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

```
Virtual network connectivity OK!
```

关于此翻译

思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言，希望全球的用户都能通过各自的语言得到支持性的内容。

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