

# 如何从VM启动收集日志

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## Introduction

本文在超Cisco服务平台描述如何收集日志，当虚拟机Virtualized信息包核心(VPC)时(超M)启动，并且对多个的点引导向上。

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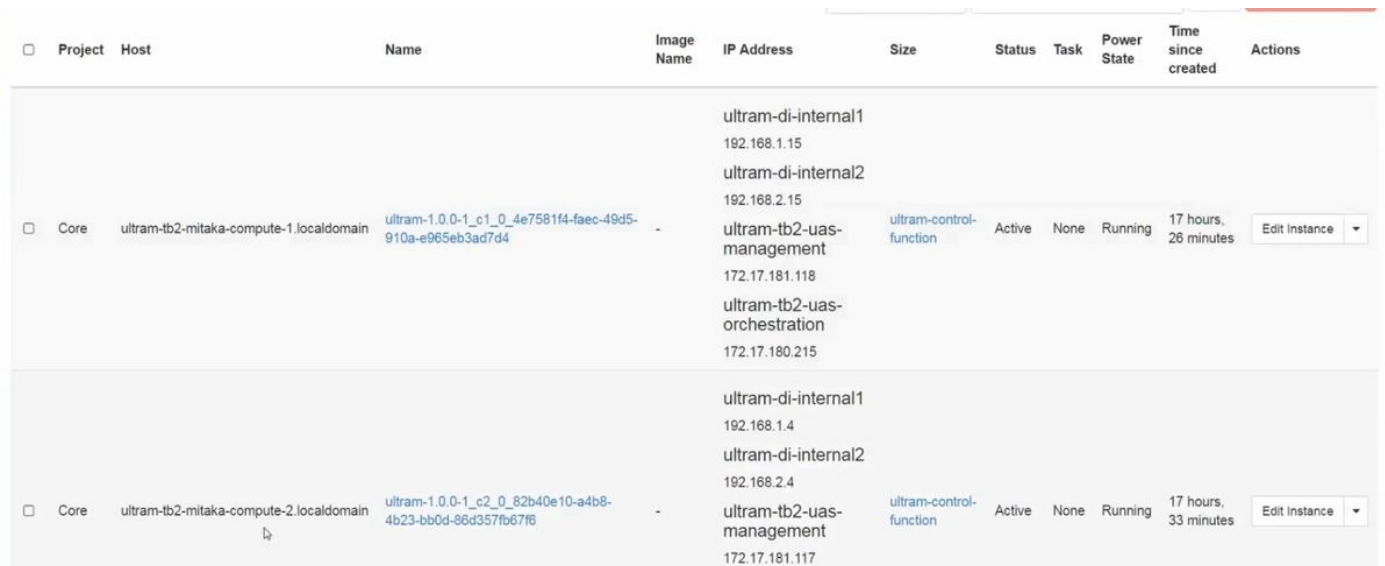
## VM启动

为了引导与控制功能(CF)或服务功能(SF)的VM，您能包括报道这里的多步骤和检查。当您监控VM时，必须是通过Serial1，因为那包括所有调试日志。

识别VM实例监控。

选项1.通过对显示板的GUI登录。

连接对Admin >实例，例如，\_c1和查找计算主机，在示例这里，C1在估计1，并且C2在估计2.的查找实例。



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

如此镜像所显示，连接对控制台边并且检查QEMU实例。

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/qvpc-vcHitlur.bin
Source Commit ID:             eda89f88c2b3350cf0eb5585b56c86959e5c693f
[local]UltraM-TB2# 2017-Mar-02+19:25:05.869 [resmgr 14907 debug] [2/0/7448 <rmmgr
r:20> _resource_log.c:909] [software internal system critical-info syslog] RM-20
: rmmgr_collect_memstats_coproc_done: ahm memstats logged for cdctrl 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 <opnmgr: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 <opnmgr: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 <opn
mgr: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 <opnmgr:1> tac_utils.c:
22] [software internal system critical-info syslog] protocol error - Invalid AUT
HEN/REPLY packet, check keys.

```

选项2.搜索从'每个实例发现实例名字的'virsh列表的。

source from undercloud: source stackrc

identify compute node's control IP: nova list

对估计节点的控制层面的SSH与热量Admin的：SSH heat-admin@< IP地址>。

变成根：sudo su

列出所有实例：virsh列表

对实例的序列1的控制台：virsh控制台instance-<number> serial1

这里日志包含多个大项目在时引导CF在Slot 1. SF有非常类似启动进程。

此卡手工被重新启动了：

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

```
[ 811.235950] machine restart
```

识别卡类型：

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

读磁盘和系统参数：

```
"QEMU HARDDISK"
```

读引导程序优先级。公告~7秒。如果看到超过30秒，则它有问题为了拿来镜像。可能的问题：镜像问题等。

征兆：该估计不计算对镜像位于的位置的访问。Septh或炭渣。

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)

拿来所有信息并且开始启动流程：

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

开始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

拳击手进程获得例示的：

Boxer /etc/rc beginning.

识别此主机的环境QEMU并且添加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

搜索在配置驱动的参数文件：

```
...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
```

如果有与在/boot1/param.cfg，存储的值的任何冲突请映射在staros\_param.cfg文件的文件参数并且获得优先权：

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

登上：

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

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

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

添加NIC卡：

```
...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更改在VM的Internal MTU大小，SR-IOV应该被启用：

```
[ 10.399271] ixgbevf: cpeth1: ixgbevf_change_mtu: changing MTU from 1500 to 7020
```

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

启动iftask :

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

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

开始masterd决定重要的CF角色 :

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

推测重要/备用方式的Broadcards :

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

检查超大信息包 : 第一小型ping , 中等大小和超大 :

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

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

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

```
Virtual network connectivity OK!
```