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简介

本文描述如何排除故障以太网端口、风扇和磁盘故障视频通信服务器的(VC)。

硬件故障

以太网端口失败

有VC硬件的四个以太网端口。登陆作为根并且输入**ifconfig -a**命令。应该显示全部四个端口。

```
~ # ifconfig -a
eth0      Link encap:Ethernet  HWaddr 00:10:F3:18:2F:AE
          inet addr:10.104.214.202  Bcast:10.104.214.255  Mask:255.255.255.192
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:7726332 errors:0 dropped:0 overruns:0 frame:0
          TX packets:7436734 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:1329156143 (1267.5 Mb)  TX bytes:3590189626 (3423.8 Mb)
          Interrupt:18 Memory:fd8e0000-fdb00000

eth1      Link encap:Ethernet  HWaddr 00:10:F3:18:2F:AF
          inet addr:192.168.0.100  Bcast:192.168.0.255  Mask:255.255.255.0
          UP BROADCAST MULTICAST  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
          Interrupt:19 Memory:fd8e0000-fd900000

eth2      Link encap:Ethernet  HWaddr 00:10:F3:18:2F:B0
          BROADCAST MULTICAST  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
          Interrupt:16 Memory:fd6e0000-fd700000

eth3      Link encap:Ethernet  HWaddr 00:10:F3:18:2F:B1
          BROADCAST MULTICAST  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
```

```
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
Interrupt:17 Memory:fd4e0000-fd500000
```

```
ip6tnl0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
NOARP MTU:1452 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
```

```
lo Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MTU:16436 Metric:1
RX packets:30151925 errors:0 dropped:0 overruns:0 frame:0
TX packets:30151925 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:30219125820 (28819.2 Mb) TX bytes:30219125820 (28819.2 Mb)
```

```
sit0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
NOARP MTU:1480 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
```

```
~ #
```

如果全部四个端口没有显示，则有与VC的一问题，并且需要替换作为网络接口控制器(NIC)失败。

VC虚拟机有三个NIC端口而不是四。因此，当您排除故障VC VM的时NIC失败， **ifconfig - a**命令应该显示三个以太网端口。登陆作为根并且输入**ifconfig - a**命令。

```
~ # ifconfig -a
```

```
eth0 Link encap:Ethernet HWaddr 00:10:F3:18:2F:AE
inet addr:10.104.214.202 Bcast:10.104.214.255 Mask:255.255.255.192
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:7726332 errors:0 dropped:0 overruns:0 frame:0
TX packets:7436734 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:1329156143 (1267.5 Mb) TX bytes:3590189626 (3423.8 Mb)
Interrupt:18 Memory:fdae0000-fdb00000
```

```
eth1 Link encap:Ethernet HWaddr 00:10:F3:18:2F:AF
inet addr:192.168.0.100 Bcast:192.168.0.255 Mask:255.255.255.0
UP BROADCAST MULTICAST MTU:1500 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
Interrupt:19 Memory:fd8e0000-fd900000
```

```
eth2 Link encap:Ethernet HWaddr 00:10:F3:18:2F:B0
BROADCAST MULTICAST MTU:1500 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)
Interrupt:16 Memory:fd6e0000-fd700000
```

```
ip6tnl0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
NOARP MTU:1452 Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
```

```

TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:16436  Metric:1
        RX packets:30151925 errors:0 dropped:0 overruns:0 frame:0
        TX packets:30151925 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:30219125820 (28819.2 Mb)  TX bytes:30219125820 (28819.2 Mb)

sit0    Link encap:UNSPEC  HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
        NOARP  MTU:1480  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

~ #

```

风扇故障

如果两个或多个风扇失败，VC版本7报告风扇故障。然而，VC也许良好仍然工作。如果在VC的温度太高，RMA可以处理。

VC有五台仅风扇，但是报道三台风扇状态在时间。一个风扇故障可能实际上是三台失败的风扇。

登陆作为根并且输入传感器发出命令为了检查在VC的温度。

```

~ # sensors
acpitz-virtual-0
Adapter: Virtual device

it8712.7-isa-0290
Adapter: ISA adapter
VCore:      +1.17 V (min = +0.83 V, max = +1.39 V)
DDR 1.8V:   +1.78 V (min = +1.62 V, max = +1.98 V)
VCC 3.3V:   +3.31 V (min = +3.14 V, max = +3.47 V)
VCC 5V:     +5.00 V (min = +4.76 V, max = +5.24 V)
+12V:      +12.22 V (min = +9.60 V, max = +14.40 V)
VCC 1.5V:   +1.49 V (min = +1.42 V, max = +1.57 V)
VBat:      +3.28 V (min = +2.99 V)
Fan 1:      0 RPM (min = 3516 RPM, div = 8) ALARM
Fan 2:     10546 RPM (min = 3516 RPM, div = 8)
Fan 3:     10546 RPM (min = 3516 RPM, div = 8)
Sys Temp1:  +29.0 C (high = +58.0 C)          sensor = thermistor
Sys Temp2:  +31.0 C (high = +58.0 C)          sensor = thermistor
CPU Temp:   +28.0 C (high = +58.0 C)          sensor = thermal diode

coretemp-isa-0000
Adapter: ISA adapter
Core 0:     +43.0 C (high = +74.0 C, crit = +100.0 C)

coretemp-isa-0001
Adapter: ISA adapter
Core 1:     +42.0 C (high = +74.0 C, crit = +100.0 C)

~ #

```

长温度看起来好，您不需要RMA VC。

磁盘故障

有磁盘的两种类型在VC的：

- SDA -这是在VC的主要的磁盘。此磁盘的失败造成VC根本不启动。如果这发生故障，VC根本不会装载镜像。
- SDB -这是附属磁盘。此磁盘的失败也许引起在VC的问题。

登陆作为根并且输入**smartctl**命令为了确定测验是否通过(SDB优良是)。除合格之外的一种结果是坏的。

```
?~ # smartctl --all /dev/sdb
?smartctl 7.40 2013-12-03 r3189 [x86_64-pc-linux-gnu] (local build)
?Copyright (C) 2002-10 by Bruce Allen, http://smartmontools.sourceforge.net
?
?=== START OF INFORMATION SECTION ===
?Model Family:      Seagate Barracuda 7200.12 family
?Device Model:      ST3250318AS
?Serial Number:     5A347D45
?Firmware Version:  CC38
?User Capacity:     250,059,350,016 bytes
?Device is:         In smartctl database [for details use: -P show]
?ATA Version is:    8
?ATA Standard is:   ATA-8-ACS revision 4
?Local Time is:     Fri Dec 04 01:38:51 2013 GMT
?SMART support is: Available - device has SMART capability.
?SMART support is: Enabled
?
?=== START OF READ SMART DATA SECTION ===
?SMART overall-health self-assessment test result: PASSED
```

您能输入**ls -l /dev/sd ***发出命令为了也显示SDB。

```
?ls -l /dev/sd*
?brw-rw---- 1 root root 8, 0 2013-12-04 01:25 /dev/sda
?brw-rw---- 1 root root 8, 1 2013-12-04 01:25 /dev/sda1
?brw-rw---- 1 root root 8, 2 2013-12-04 01:25 /dev/sda2
?brw-rw---- 1 root root 8, 3 2013-12-04 01:25 /dev/sda3
?brw-rw---- 1 root root 8, 5 2013-12-04 01:25 /dev/sda5
?brw-rw---- 1 root root 8, 6 2013-12-04 01:25 /dev/sda6
?brw-rw---- 1 root root 8, 7 2013-12-04 01:25 /dev/sda7
?brw-rw---- 1 root root 8, 8 2013-12-04 01:25 /dev/sda8
?brw-rw---- 1 root root 8, 16 2013-12-04 01:25 /dev/sdb
?brw-rw---- 1 root root 8, 17 2013-12-04 01:25 /dev/sdb1
?brw-rw---- 1 root root 8, 18 2013-12-04 01:25 /dev/sdb2
```

SDB需要装载。输入**df**命令为了显示是否SDB装载。

```
?~ # df | grep sdb
?/dev/sdb2          320471385    3781378 324252763    1% /mnt/harddisk
?~ #
```