

## 知 因地址冲突导致的cloudos下发的虚拟机获取不到地址

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### 组网及说明

cloudos纳管CAS

### 问题描述

某日, 工程师A在cloudos上下发虚拟机, 发现下发的虚拟机内部获取不到地址, 配置文件中也没有, 但是在cas界面上虚拟机的信息中也能看到ip地址。

### 过程分析

#### 1、缩小问题范围:

- 尝试再次下发虚拟机, 使用下一个ip地址, 发现仍有该问题;
  - 怀疑镜像有问题, 尝试下发其他操作系统的虚拟机, 但是仍然使用该地址, 发现现象一样, 可以将排除镜像问题;
- 由此可以大致排查出肯定是下发后的过程中出现了问题;

#### 2、进入日志排查流程:

- 进入虚拟机查看/var/log/qemu-ga.log未发现相关日志;
- 查看/var/log/set-ip.log也未发现异常, 已经正常将ip配置下去;

```
2019-02-26 02:50:04,185 INFO:39L: ['usr/sbin/set-ip.py', '<config><mac>fa:16:3e:1e:71:4b</mac><ip>100.88.230.21</ip><mask>255.255.255.0</mask><gateway>100.88.230.254</gateway></config>']
2019-02-26 02:50:04,910 INFO:39L: ['usr/sbin/set-ip.py', '<config><hostname>d1-hbcaache1</hostname></config>']
```

- 再查看一下虚拟机的系统日志/var/log/messages, 可以看到ip地址已经被其他mac地址占用, 因此获取地址失败, 至此问题定位;

```
Feb 26 03:12:42 d1-hbcaache1 network: Bringing up interface eth0: : [/etc/sysconfig/network-scripts/ifup-eth] Error, some other host (F4:15:63:C4:3C:08) already uses address 100.88.230.21.
Feb 26 03:12:42 d1-hbcaache1 /etc/sysconfig/network-scripts/ifup-eth: Error, some other host (F4:15:63:C4:3C:08) already uses address 100.88.230.21.
Feb 26 03:12:42 d1-hbcaache1 network: FAILED!
Feb 26 03:12:42 d1-hbcaache1 systemd: network.service: control process exited, code=exited status=1
Feb 26 03:12:42 d1-hbcaache1 systemd: Failed to start LSB: Bring up/down networking.
Feb 26 03:12:42 d1-hbcaache1 systemd: Unit network.service entered failed state.
Feb 26 03:12:42 d1-hbcaache1 systemd: network.service failed.
Feb 26 03:12:42 d1-hbcaache1 systemd: Reached target Network.
Feb 26 03:12:42 d1-hbcaache1 systemd: Starting Network.
Feb 26 03:12:42 d1-hbcaache1 systemd: Reached target Network is Online.
Feb 26 03:12:42 d1-hbcaache1 systemd: Starting Network is Online.
Feb 26 03:12:42 d1-hbcaache1 systemd: Starting Notify NFS peers of a restart...
Feb 26 03:12:42 d1-hbcaache1 systemd: Starting Postfix Mail Transport Agent...
Feb 26 03:12:42 d1-hbcaache1 systemd: Starting Crash recovery kernel arming...
Feb 26 03:12:42 d1-hbcaache1 systemd: Starting Dynamic System Tuning Daemon...
Feb 26 03:12:42 d1-hbcaache1 systemd: Starting OpenSSH server daemon...
Feb 26 03:12:42 d1-hbcaache1 sm-notify[903]: Version 1.3.0 starting
Feb 26 03:12:42 d1-hbcaache1 systemd: Started Notify NFS peers of a restart.
Feb 26 03:12:43 d1-hbcaache1 systemd: Started OpenSSH server daemon.
Feb 26 03:12:43 d1-hbcaache1 systemd: Started Postfix Mail Transport Agent.
Feb 26 03:12:43 d1-hbcaache1 systemd: Started Dynamic System Tuning Daemon.
Feb 26 03:12:44 d1-hbcaache1 kdumpctl: kexec: loaded kdump kernel
Feb 26 03:12:44 d1-hbcaache1 kdumpctl: Starting kdump: [OK]
```

- 3、工程师A后续排查到后面的几个地址都被占用, 因此之前尝试再次下发虚拟机时仍有问题。

### 解决方法

排查到ip冲突后, 可以跳过这些ip进行下发, cloudos下发虚拟机可以指定地址。