

CentOS 7 Image Gets Stuck on "starting" State on a Vmware vCenter Cloud Type

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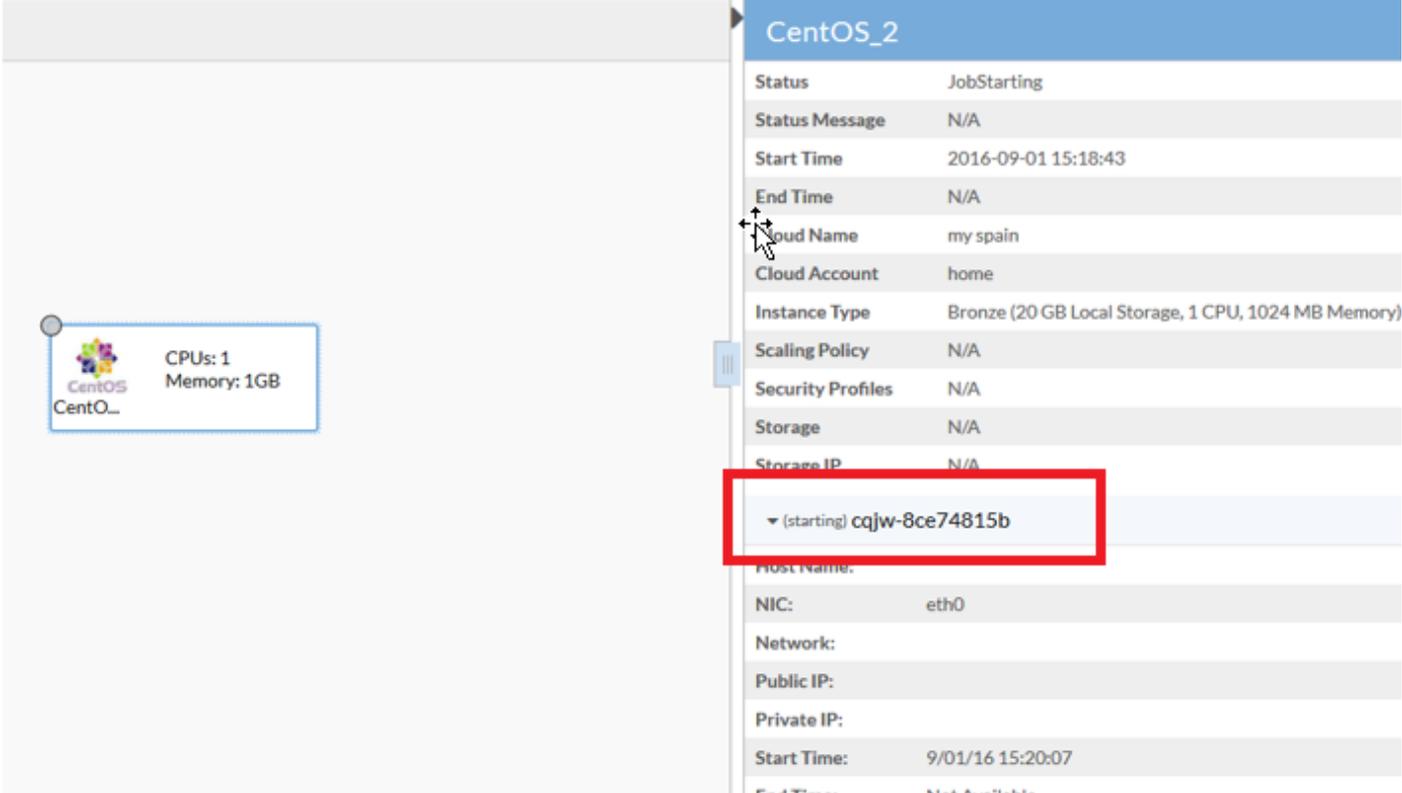
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Introduction

This document describes the solution to the problem that occurs when CentOS 7 custom image is created and on deployment, it gets stuck on the "starting" state when the standard documented procedure is used.

Background Information

For your reference:



The screenshot displays a cloud management interface. On the left, a small icon represents the CentOS instance with the text 'CentOS CentOS' and 'CPU: 1 Memory: 1GB'. On the right, a detailed view for 'CentOS_2' is shown. The instance's status is 'JobStarting', and it has been running since '2016-09-01 15:18:43'. A red box highlights the '(starting) cqjw-8ce74815b' entry in the instance list, indicating the state of the instance.

| CentOS_2 | |
|-----------------------------|---|
| Status | JobStarting |
| Status Message | N/A |
| Start Time | 2016-09-01 15:18:43 |
| End Time | N/A |
| Cloud Name | my spain |
| Cloud Account | home |
| Instance Type | Bronze (20 GB Local Storage, 1 CPU, 1024 MB Memory) |
| Scaling Policy | N/A |
| Security Profiles | N/A |
| Storage | N/A |
| Storage IP | N/A |
| ▼ (starting) cqjw-8ce74815b | |
| Host Name: | |
| NIC: | eth0 |
| Network: | |
| Public IP: | |
| Private IP: | |
| Start Time: | 9/01/16 15:20:07 |
| End Time: | Not Available |

Problem

CentOS 7 has multiple issues with the networking on Vmware that affects the Image deployment procedure in Cloud Center.

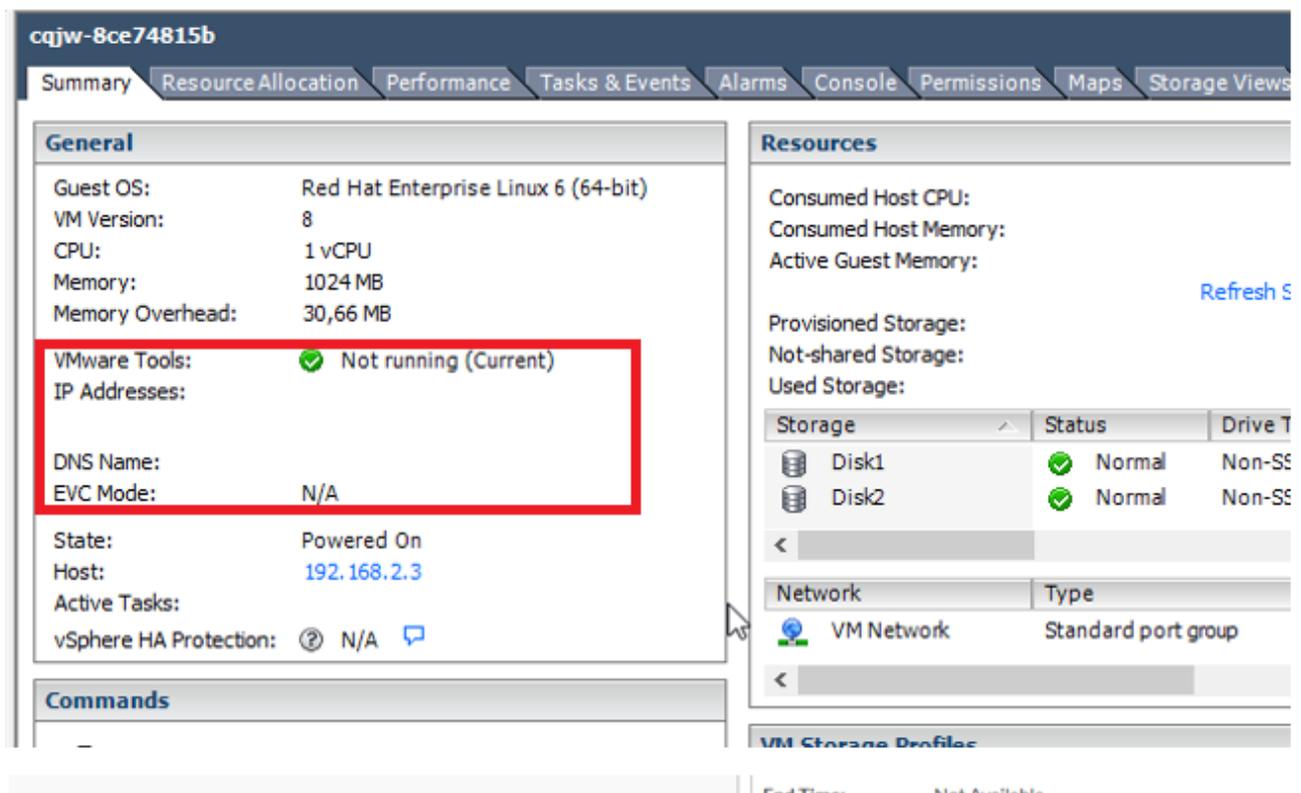
The detected issues were:

- Firewall services seem to interfere with the correct communication
- IPv6 IP is reported to vCenter instead of IPv4
- Machine does not get the IPv4 from DHCP on start up

Solution

Multiple solutions are needed to make it work:

1. Run this command; **systemctl disable firewalld** and disable the **firewall** from the template.
2. Disable **IPv6** from the image and edit the **/etc/sysctl.conf** file and add this line:
net.ipv6.conf.all.disable_ipv6 = 1.
3. If you see that even after these steps the VM does not get an IP, then follow these steps:



Try to add a script to force the dhcp retrieval:

Navigate to **/etc/init.d**. Create a file with this, the name as **"net-autostart"**,

```
#!/bin/bash
# Solution for "No Internet Connection from VMware"
#
### BEGIN INIT INFO
# Default-Start: 2 3 4 5
# Default-Stop: 0 1 6
### END INIT INFO
```

`dhclient -v` Save the file. Change the file permission as executable:

`chmod 755 net-autostart` Add this script for auto-start and use **chkconfig** command,

```
chkconfig --add net-autostart
```