

Foreman - Bug #11440

Network bonding is not working properly when provisioning CentOS/RHEL servers because the default gateway is not set.

08/20/2015 04:34 AM - Petr Ruzicka

Status:	Closed	
Priority:	Normal	
Assignee:	Petr Ruzicka	
Category:	Network	
Target version:	1.10.0	
Difficulty:	easy	Fixed in Releases:
Triaged:		Found in Releases: 1.9.0
Bugzilla link:		Red Hat JIRA:
Pull request:	https://github.com/theforeman/community-templates/pull/201	

Description

Hello.

I provisioned the physical server with bonded two interfaces and the final provisioned server didn't have default gateway configured properly.

I successfully create the host and created bond properly for CentOS6 server:

```
hammer host create --model "ProLiant BL685c G1" --medium "My_CentOS_mirror" --name "server01.example.com" --operatingsystem-id $OPERATINGSYSTEM_ID --partition-table-id $PARTITION_TABLE_ID --root-pass "12345678" \  
  --puppet-proxy-id 1 --architecture-id $ARCHITECTURE_ID --environment-id $ENVIRONMENT_ID --domain-id $DOMAIN_ID --hostgroup "hosts" \  
  --interface="type=bond,mac=00:1E:0B:20:FE:3A,ip=10.2.4.5,name=server01-oam,subnet_id=$SUBNET_OAM_ID,domain_id=$DOMAIN_ID,mode=balance-rr,attached_devices=[eth0,eth1],identifier=bond0,primary=true,provision=true" \  
  --interface="type=bond,mac=00:1c:c4:a6:f4:90,ip=10.2.4.131,name=server01-traffic,subnet_id=$SUBNET_TRAFFIC_ID,domain_id=$DOMAIN_ID,mode=balance-rr,attached_devices=[eth4,eth5],identifier=bond1" \  
  --interface="type=bond,mac=00:1c:c4:a6:f4:92,ip=192.168.0.5,name=server01-internal,subnet_id=$SUBNET_INTERN_ID,domain_id=$DOMAIN_ID,mode=balance-rr,attached_devices=[eth6,eth7],identifier=bond2" \  
 \  
  --interface="type=interface,mac=00:1E:0B:20:FE:3A,identifier=eth0" \  
  --interface="type=interface,mac=00:1E:0B:20:FE:3E,identifier=eth1" \  
  --interface="type=interface,mac=00:1C:C4:AB:E9:45,identifier=eth2" \  
  --interface="type=interface,mac=00:1C:C4:AB:E9:46,identifier=eth3" \  
  --interface="type=interface,mac=00:1c:c4:a6:f4:90,identifier=eth4" \  
  --interface="type=interface,mac=00:1c:c4:a6:f4:91,identifier=eth5" \  
  --interface="type=interface,mac=00:1c:c4:a6:f4:92,identifier=eth6" \  
  --interface="type=interface,mac=00:1c:c4:a6:f4:93,identifier=eth7"
```

I can see these lines especially the "DEFROUTE=no" in the Kickatr template generated for the server:

```
# bond0 interface  
real="bond0"  
cat << EOF > /etc/sysconfig/network-scripts/ifcfg-$real  
BOOTPROTO="dhcp"  
DEVICE="$real"  
ONBOOT=yes  
PEERDNS=no  
PEERROUTES=no  
DEFROUTE=no  
TYPE=Bond  
BONDING_OPTS=" mode=balance-rr "  
BONDING_MASTER=yes  
NM_CONTROLLED=no
```

EOF

Parameter "DEFROUTE=no" disables of using the default gateway specified by DHCP or specified in /etc/sysconfig/network in case of static configuration.

This is most probably the bug. I suggest to remove this line when generating the bond configuration (like it's in case of standard "eth" interfaces)

Maybe it's enough to remove this line from "/usr/share/foreman/app/views/unattended/snippets/_kickstart_networking_setup.erb" (I'm not sure)

Here are the details form the provisioned server:

```
# cat /etc/sysconfig/network-scripts/ifcfg-bond0
BOOTPROTO="dhcp"
DEVICE="bond0"
ONBOOT=yes
PEERDNS=no
PEERROUTES=no
DEFROUTE=no
TYPE=Bond
BONDING_OPTS=" mode=balance-rr"
BONDING_MASTER=yes
NM_CONTROLLED=no

# ip r s
10.2.4.0/25 dev bond0 proto kernel scope link src 10.2.4.5
10.2.4.128/25 dev bond1 proto kernel scope link src 10.2.4.131
192.168.0.0/24 dev bond2 proto kernel scope link src 192.168.0.5
169.254.0.0/16 dev bond0 scope link metric 1010
169.254.0.0/16 dev bond1 scope link metric 1011
169.254.0.0/16 dev bond2 scope link metric 1012
```

No default GW configured above!

I removed manually the "DEFROUTE=no" from "/etc/sysconfig/network-scripts/ifcfg-bond0" + restart the networking and everything starts working like it should be:

```
# ip r s | grep default
default via 10.2.4.1 dev bond0
```

Thank you for looking at it.

PetrR

Associated revisions

Revision 29257b42 - 09/11/2015 03:29 AM - Petr Ruzicka

Fixes #11440 - set default gateway on primary bond interface

Network bonding is not working properly when provisioning CentOS/RHEL servers because the default gateway is not set.

Closes GH-201

Revision 8ab69da8 - 09/16/2015 03:05 AM - Petr Ruzicka

Fixes #11440 - Network bonding is not working properly when provisioning CentOS/RHEL servers because the default gateway is not set

History

#1 - 08/20/2015 04:47 AM - Dominic Cleal

- Description updated

- translation missing: en.field_release deleted (72)

#2 - 08/21/2015 02:55 AM - The Foreman Bot

- Status changed from New to Ready For Testing

- Pull request <https://github.com/foreman/foreman/pull/2628> added

- Pull request deleted ()

#3 - 08/21/2015 03:40 AM - Petr Ruzicka

I added the fix to the "community-templates":

<https://github.com/foreman/community-templates/pull/201>

Regards

PetrR

#4 - 08/28/2015 08:01 AM - Marek Hulán

- Assignee set to Petr Ruzicka

- Priority changed from High to Normal

- Pull request <https://github.com/foreman/community-templates/pull/201> added

- Pull request deleted (<https://github.com/foreman/foreman/pull/2628>)

Lowering the priority since it's easy to modify the configuration snippet.

#5 - 09/11/2015 03:30 AM - Dominic Cleal

- Status changed from Ready For Testing to Closed

- % Done changed from 0 to 100

- translation missing: en.field_release set to 63

#6 - 09/16/2015 03:02 AM - Petr Ruzicka

Hello.

I was testing it on the real hardware and actually the line should look like this:

```
DEFROUTE="<%= bond.primary ? 'yes' : 'no' -%>"
```

What is committed before will break the whole template :-(

I'll create another pull request via github for this issue and we can discuss it to see it there.

Regards

PetrR

#7 - 09/16/2015 03:08 AM - Dominic Cleal

Sure, please just open up a new PR and we'll get it in. Thanks.

#8 - 09/16/2015 03:14 AM - Petr Ruzicka

Hello.

Here is the pull request: <https://github.com/foreman/community-templates/pull/204>

Please let me know if you want to create new "bug" or if we can manage it as a part of this "closed" one.

Thank you

PetrR

#9 - 09/16/2015 03:16 AM - Dominic Cleal

Using this is fine, thanks. We don't usually require tickets for community-templates.