

## OpenNebula - Bug #2047

### Attaching arbitrary IP addresses using one.vm.attachnic

05/15/2013 12:41 AM - Simon Boulet

<b>Status:</b>	Closed	<b>Start date:</b>	05/15/2013
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>	Core & System	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Release 4.4	<b>Pull request:</b>	
<b>Resolution:</b>	fixed		
<b>Affected Versions:</b>	OpenNebula 4.0		
<b>Description</b>			
<p>Its seems a user can attach any arbitrary IP address to a VM by calling one.vm.attachnic without specifying a NETWORK_ID (or NETWORK).</p> <pre>one.vm.attachnic(key, vm_id, "NIC=[IP=1.2.3.4]")</pre> <p>Would attach the arbitrary address 1.2.3.4 to the VM.</p> <p>I'm not sure if that's the expected behaviour.</p> <p>I can see this being a major issue for hypervisors not enforcing VLAN or bridge isolation (ie. configuring all VM in the same VLAN). It can typically be used by a user to grab an existing IP address from the network (such as gateway address or IP addresses assigned to other VMs).</p>			

#### Associated revisions

##### Revision 964def4b - 11/14/2013 02:28 PM - Carlos Martin

Bug #2047: Add NIC/BRIDGE as a default restricted attribute

##### Revision 5abd4300 - 11/14/2013 02:32 PM - Carlos Martin

Bug #2047: Add NIC/BRIDGE as a default restricted attribute  
(cherry picked from commit 964def4bc3a72aa1f7be7b4e892dc902dd6db254)

#### History

##### #1 - 05/15/2013 12:45 AM - Simon Boulet

- File *opennebula-attachnic-enforce-network.patch* added

##### #2 - 05/15/2013 12:58 AM - Simon Boulet

- File *opennebula-attachnic-enforce-network.patch* added

##### #3 - 05/17/2013 03:26 PM - Ruben S. Montero

But this is not only for attach NIC you could also do the same with a one.template.create or one.vm.create. Maybe we can check for restricted attributes when attaching a NIC...

##### #4 - 05/21/2013 05:19 PM - Simon Boulet

I'm not sure why VMs are allowed to use IP addresses that aren't part of a VNET?

**#5 - 05/21/2013 08:10 PM - Ruben S. Montero**

Well, I was thinking exactly the same when I wrote my last comment.

- first, we need a way to have "network-less" NICs. This can be done with MAC (as in NIC=[MAC="00:01.."]). This can be limited with the RESTRICTED attributes.

- So, the same can be applied to IP, I can restricted IP so only oneadmin can do NIC=[IP="192.168..."] (note that this is equivalent to the MAC-form). I can restricted that (putting IP as a RESTRICTED attribute in oned.conf), but then I'd also restrict NIC=[NETWORK="blue",IP="192.."] which probably is a valid entry.

So I'm inclined to agree with you, IP does not make sense without a NETWORK attribute in a NIC. (Because if it makes sense you can always use MAC)

**#6 - 06/04/2013 08:26 AM - Ruben S. Montero**

- *Category set to Core & System*
- *Status changed from Pending to New*
- *Target version set to Release 4.2*

So here the real problem is to use BRIDGE, setting up a NIC not attached to any particular interface would not be a problem. In fact I think it fails so we do not pass the SOURCE option for the attach nic command.

This issue will be solved by:

- 1.- First check for restricted attributes in NIC template
- 2.- Check that all needed attributes are available (MAC/IP and BRIDGE)

**#7 - 07/15/2013 11:03 AM - Ruben S. Montero**

- *Target version changed from Release 4.2 to Release 4.4*

**#8 - 11/14/2013 02:39 PM - Carlos Martín**

- *Status changed from New to Closed*
- *Resolution set to fixed*

Hi Simon,

We've been talking about this, and it looks to us that the only real problem is if you let a user choose a mac/ip **and** attach the nic to a bridge. So for now we have added NIC/BRIDGE as a default restricted attribute in oned.conf.

Let us know if you still see any other problems we may have missed.

Cheers

**Files**

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opennebula-attachnic-enforce-network.patch  
opennebula-attachnic-enforce-network.patch

880 Bytes  
880 Bytes

05/15/2013  
05/15/2013

Simon Boulet  
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