

## OpenNebula - Feature #589

### [patch] Add support for LibVirt network-filter

04/26/2011 09:36 AM - jordan pittier

<b>Status:</b>	Closed	<b>Start date:</b>	04/26/2011
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Ruben S. Montero	<b>% Done:</b>	0%
<b>Category:</b>	Core & System	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Release 3.0	<b>Pull request:</b>	
<b>Resolution:</b>	fixed		
<b>Description</b>			
<p>Hi,</p> <p>I like Opennebula hooks to add some ebttables entries. But I prefer to use Libvirt network filters, they are more powerful. Here is a patch to add this feature :</p> <p>Edit src/vmm/LibVirtDriverKVM.cc around line 60 add:</p> <pre>string ip</pre> <p>Edit src/vmm/LibVirtDriverKVM.cc around line 435 add:</p> <pre>ip      = nic-&gt;vector_value("IP");</pre> <p>Edit the same file, around line 450 (after the if( !mac.empty() ) code block) add</p> <pre>if( !ip.empty() ) { file &lt;&lt; "\t\t\t&lt;filterref filter='clean-traffic'&gt;" &lt;&lt; endl; file &lt;&lt; "\t\t\t\t&lt;parameter name='IP' value='" &lt;&lt; ip &lt;&lt; "'/&gt;" &lt;&lt; endl; file &lt;&lt; "\t\t\t&lt;/filterref&gt;" &lt;&lt; endl; }</pre> <p>This enables the most used network-filter, aka "clean-traffic". But there are others network-filters (see libvirt website) and it should be configurable using a preference in one/etc/vmm_ssh/vmm_ssh_kvm.conf</p>			

#### Associated revisions

##### Revision e050429a - 05/06/2011 11:55 PM - Ruben S. Montero

feature #589: Add support for filter option in KVM driver

##### Revision 0cdbde48 - 05/12/2011 12:12 PM - Ruben S. Montero

feature #589: Fixes a bug for filter generation and sets no filter by default

## History

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### #1 - 04/28/2011 04:01 PM - Ruben S. Montero

- Category set to Core & System
- Assignee set to Ruben S. Montero
- Target version set to Release 3.0

Hi, this makes sense, thanks for the patch!. This will only support predefined filter rules as described in <http://libvirt.org/formatnwfilter.html#nwfelemsRules>

### #2 - 05/07/2011 12:05 AM - Ruben S. Montero

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

This is now ready in master. I've extended the functionality with:

- You can now set any filter to the interface as:

```
NIC = [ NETWORK_ID = 0, FILTER = "clean-traffic" ]
```

- Default filters can be defined for NICs in vmm\_kvm.conf

Also this is now documented in the KVM driver guide <http://www.opennebula.org/documentation:rel2.4:kvmg?&#38;#nic>

### #3 - 06/23/2011 06:50 PM - Shi Jin

Hi,

Is it possible to integrate the filter into the VNET definition so that any NIC using the VNET will automatically inheritate its filters?

This way, there is no change needed on the VM templates.

Thanks.

### #4 - 06/23/2011 09:33 PM - jordan pittier

I dont see why it should be configurable on a per vnet basis instead of per VM. You would loose "granularity".

| *This way, there is no change needed on the VM templates.*

What's the matter with editing the templates ? It's just one line.

### #5 - 06/23/2011 10:13 PM - Shi Jin

I agree but I just have a lot of templates to modify.

However, I found that if I put in \$ONE\_LOCATION/etc/vmm\_exec/vmm\_exec\_kvm.conf

```
NIC = [ filter = "clean-traffic" ]
```

Then it will automatically be appended to all VMs without the need to modify the existing templates.

**#6 - 06/29/2011 04:52 AM - Shi Jin**

*Also this is now documented in the KVM driver guide <http://www.opennebula.org/documentation:rel2.4:kvmg?&#38;#nic>*

Hi, this page is not available. Has it been moved to a new URL? Please update. Thanks.

Also, I already tested it under the master branch, meaning it will be available in the 3.x release. But is it possible to port it back to the 2.x release? I understand that there are some significant changes in database and API so it might take us a while port our systems to OpenNebula-3.x but this feature is definitely needed right away and it would be very nice to have it in the already working 2.x version.

Thanks a lot.

Shi

**#7 - 06/29/2011 04:55 AM - Shi Jin**

Sorry this line was shown as quotes. So I am pasting again as text.

*Also this is now documented in the KVM driver guide <http://www.opennebula.org/documentation:rel2.4:kvmg?&#38;#nic>*

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**#8 - 06/29/2011 11:19 AM - Ruben S. Montero**

The new link,

<http://www.opennebula.org/documentation:rel3.0:kvmg?&#38;#nic>

Currently, there are no plans to backport this feature to the 2.x branch

Cheers

Ruben

Shi Jin wrote:

*Sorry this line was shown as quotes. So I am pasting again as text.*

*Also this is now documented in the KVM driver guide <http://www.opennebula.org/documentation:rel2.4:kvmg?&#38;#nic>*

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