

OpenNebula - Bug #4989

Open vSwitch: VLAN_ID is not generated automatically when missing

01/20/2017 02:28 PM - EOLE Team

Status:	Closed	Start date:	01/20/2017
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Drivers - Network	Estimated time:	0.00 hour
Target version:		Pull request:	
Resolution:			
Affected Versions:	OpenNebula 4.12		

Description

Hello,

I'm following the [thread on the forum](#).

According to the [documentation](#), when the **VLAN_ID** is missing it will be automatically generated.

This does not work and here are the steps to reproduce:

1. Create a network template:

```
oneadmin@one:~# cat > vnet.tmpl <<EOF
NAME="test-vnet"
VN_MAD="ovswitch"
BRIDGE="vswitch"
EOF
```

2. Create the network:

```
oneadmin@one:~# onevnet create -c 0 vnet.tmpl
ID: 8
```

Here is the resulting vnet XML:

```
oneadmin@one:~# onevnet show -x test-vnet
<VNET>
  <ID>8</ID>
  <UID>0</UID>
  <GID>0</GID>
  <UNAME>oneadmin</UNAME>
  <GNAME>oneadmin</GNAME>
  <NAME>test-vnet</NAME>
  <PERMISSIONS>
    <OWNER_U>1</OWNER_U>
    <OWNER_M>1</OWNER_M>
    <OWNER_A>0</OWNER_A>
    <GROUP_U>0</GROUP_U>
    <GROUP_M>0</GROUP_M>
```

```

<GROUP_A>0</GROUP_A>
<OTHER_U>0</OTHER_U>
<OTHER_M>0</OTHER_M>
<OTHER_A>0</OTHER_A>
</PERMISSIONS>
<CLUSTERS>
  <ID>0</ID>
</CLUSTERS>
<BRIDGE><![CDATA[vswitch]]></BRIDGE>
<PARENT_NETWORK_ID/>
<VN_MAD><![CDATA[ovswitch]]></VN_MAD>
<PHYDEV/>
<VLAN_ID/>
<VLAN_ID_AUTOMATIC>0</VLAN_ID_AUTOMATIC>
<USED_LEASES>0</USED_LEASES>
<VROUTERS/>
<TEMPLATE>
  <BRIDGE><![CDATA[vswitch]]></BRIDGE>
  <PHYDEV><![CDATA[]]></PHYDEV>
  <SECURITY_GROUPS><![CDATA[0]]></SECURITY_GROUPS>
  <VN_MAD><![CDATA[ovswitch]]></VN_MAD>
</TEMPLATE>
<AR_POOL/>
</VNET>

```

The **VLAN_ID** is null and **VLAN_ID_AUTOMATIC** is 0.

Miguel Ángel Alvarez Cabrerizo give me the solution to use **AUTOMATIC_VLAN_ID="YES"**

1. Delete the network

```
oneadmin@one:~# onevnet delete test-vnet
```

2. Update the network template:

```
oneadmin@one:~# cat >> vnet.tmpl <<EOF
AUTOMATIC_VLAN_ID="YES"
EOF
```

3. Create the network:

```
oneadmin@one:~# onevnet create -c 0 vnet.tmpl
ID: 9
```

Here is the resulting vnet XML:

```

<VNET>
  <ID>9</ID>
  <UID>0</UID>
  <GID>0</GID>
  <UNAME>oneadmin</UNAME>
  <GNAME>oneadmin</GNAME>
  <NAME>test-vnet</NAME>
  <PERMISSIONS>
    <OWNER_U>1</OWNER_U>
    <OWNER_M>1</OWNER_M>
    <OWNER_A>0</OWNER_A>
    <GROUP_U>0</GROUP_U>
    <GROUP_M>0</GROUP_M>
    <GROUP_A>0</GROUP_A>
    <OTHER_U>0</OTHER_U>
    <OTHER_M>0</OTHER_M>
    <OTHER_A>0</OTHER_A>
  </PERMISSIONS>
  <CLUSTERS>
    <ID>0</ID>
  </CLUSTERS>
  <BRIDGE><![CDATA[vswitch]]></BRIDGE>
  <PARENT_NETWORK_ID/>
  <VN_MAD><![CDATA[ovswitch]]></VN_MAD>
  <PHYDEV/>
  <VLAN_ID><![CDATA[11]]></VLAN_ID>
  <VLAN_ID_AUTOMATIC>1</VLAN_ID_AUTOMATIC>
  <USED_LEASES>0</USED_LEASES>
  <VROUTERS/>
  <TEMPLATE>
    <BRIDGE><![CDATA[vswitch]]></BRIDGE>
    <PHYDEV><![CDATA[]]></PHYDEV>
    <SECURITY_GROUPS><![CDATA[0]]></SECURITY_GROUPS>
    <VN_MAD><![CDATA[ovswitch]]></VN_MAD>
  </TEMPLATE>
  <AR_POOL/>
</VNET>

```

So either the documentation is wrong or the code does not work as expected.

Regards.

NB: the **AUTOMATIC_VLAN_ID** attribute is not documented in [Virtual Network Definition](#)

NB2: is there a way to update the already created networks to fix them or should I write a fixture to directly update the database?

History

#1 - 01/23/2017 10:44 AM - Miguel Ángel Álvarez Cabrerizo

Hi!

I've just created a PR to include information about AUTOMATIC_VLAN_ID (master and one-5.2) for the [Virtual Networks Definition](#) and [Open vSwitch](#)

[Networks](#).

Cheers!

#2 - 08/23/2017 01:41 PM - Javi Fontan

- *Status changed from Pending to Closed*

- *Affected Versions OpenNebula 4.12 added*

You can not change a network from manual VLAN ID selection to automatic or the other direction. You can change the VLAN ID with onevnet update if it's manually selected.

Closing the issue as documentation is already updated.