

OpenNebula - Feature #4891

Handle gateway metric on OpenNebula vrouter (Alpine) - v 5.2

11/03/2016 01:42 AM - Nicolas Belan

Status:	Closed	Start date:	11/03/2016
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Context	Estimated time:	0.00 hour
Target version:	Release 5.4	Pull request:	
Resolution:	wontfix		

Description

Hi,
When using multiple network on vrouter, you may have multiple default gateway defined (1 per vnet)

To choose the right gateway, it is possible to set "metric", as in:

```
localhost:~# cat /etc/network/interfaces
```

```
auto lo
iface lo inet loopback

auto eth0
iface eth0 inet static
address 172.25.104.254
network 172.25.104.0
netmask 255.255.255.0
gateway 172.25.104.254
metric 1000
```

```
auto eth1
iface eth1 inet static
address 172.25.101.201
network 172.25.101.0
netmask 255.255.0.0
gateway 172.25.8.20
metric 101
```

Metric may be set in context variable, and retrieve from context, using something like:

```
# Gets the gateway metric
get_metric() {
    if is_gateway; then
        metric=$(get_iface_var "METRIC")

        if [ -z "$metric" ]; then
            if [ "$DEV" = "eth0" ]; then
                metric=1000
            else
                metric=$((100+$IFACE_NUM))
            fi
        fi
    fi
}
```

```

    fi

    echo $metric
fi
}

```

Using that code, by default, the second network interface is the default gateway (1=LAN, 2=WAN), and that can be change using ETH{X}_METRIC=10

Perhaps a hardcoded "eth0" is not correct; but this is a starting point.

Adding the right call "METRIC=\$(get_metric)" in the interface loop, this makes the job for me :)

History

#1 - 11/04/2016 12:25 AM - Nicolas Belan

Here comes the full diff:

```

--- /etc/one-context.d/00-network.orig
+++ /etc/one-context.d/00-network
@@ -88,7 +88,23 @@
     echo $gateway
    fi
}
+# Gets the gateway metric
+get_metric() {
+  if is_gateway; then
+    metric=$(get_iface_var "METRIC")

+  if [ -z "$metric" ]; then
+    if [ "$DEV" = "eth0" ]; then
+      metric=1000
+    else
+      metric=$((100+$IFACE_NUM))
+    fi
+  fi
+
+  echo $metric
+ fi
+}
+
# Gets the network gateway6
get_gateway6() {
  if is_gateway; then
@@ -147,6 +163,10 @@
    echo " gateway $GATEWAY6"
  fi

+  if [ -n "$METRIC" ]; then
+    echo " metric $METRIC"

```

```
+ fi
+
  echo ""
}

@@ -191,6 +211,7 @@
  MASK=$(get_mask)
  MTU=$(get_mtu)
  GATEWAY=$(get_gateway)
+  METRIC=$(get_metric)

  IPV6=$(get_iface_var "IPV6")
  [[ -z $IPV6 ]] && IPV6=$(get_iface_var "IP6")
```

#2 - 11/05/2016 08:54 PM - Ruben S. Montero

- Status changed from Pending to New
- Target version set to Release 5.4

#3 - 07/13/2017 03:19 PM - Ruben S. Montero

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

Moved this issue to `addon-alpine-context`:

<https://github.com/OpenNebula/addon-context-alpine/issues/5>

Closing as "wontfix" to address this as part of the alpine distro