Subject: Re: Using dhcpd within VE without relay agent possible? Posted by sebastian.esser on Tue, 17 Jul 2007 14:37:38 GMT

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I decided against the ethernet bridge. I need a more transparent way, which implements an easy mechanismn to work with offline migrations. Thus I choose the use of a DHCP Relay Agent.

Here's my workaround:

Every HN which shall be able to shelter a VE with a running DHCP daemon inside has to be equipped with a proper DHCP Relay Agent.

On CentOS 4 these two services (dhcpd and dhcrelay) are provided through the RPM package dhcp

This scenario allows only one VE with an DHCP daemon per HN and only one VE with DHCP daemon per group of HNs. The latter constraint could be removed. E.g. by modifying the "mount" Action Script /etc/vz/conf/101.mount in a manner that the Relay Agent's configuration will be overwritten. In that case you'll have to ensure there's no other VE with a running DHCP daemon on the HN.

First I've set up an applicable VE with the DHCP daemon dhcpd... vzctl create 101 \ --ostemplate=centos-4-i386-minimal \ --hostname=ve001.foo.bar vzctl set 101 \ --name=ve001 \ --netif add eth0 \ --nameserver=192.168.1.1 \ --searchdomain=foo.bar \ --save vzyum 101 install dhcp vzctl exec 101 chkconfig --level 3 dhcpd on vzctl exec 101 service dhcpd start Quote:To get rid of the error message "/etc/init.d/dhcpd: line 17: [: =: unary operator expected" while starting/stopping the daemon apply the following patch within the VE: --- BEGIN /etc/init.d/dhcpd.patch ---*** /etc/init.d/dhcpd.ORIGIN 2007-07-17 14:33:06.000000000 +0200 2007-07-17 14:33:36.000000000 +0200 --- /etc/init.d/dhcpd ****** *** 15.19 **** # Check that networking is up. ! [\${NETWORKING} = "no"] && exit 0 [-f/usr/sbin/dhcpd]|| exit 0

--- 15,19 ----

```
# Check that networking is up.
! [ "${NETWORKING}" = "no" ] && exit 0
 [-f/usr/sbin/dhcpd]|| exit 0
--- END /etc/init.d/dhcpd.patch ---
After reading the advices about virtual ethernet devices on http://wiki.openvz.org/Veth (especially
http://wiki.openvz.org/Veth#Making_a_veth-device_persistent and
http://wiki.openvz.org/Veth#Simple configuration with virtua I ethernet device) I've modified
the VE's main configuration file,...
--- SNIP /etc/vz/conf/101.conf ---
CONFIG CUSTOMIZED="yes"
VETH_IP_ADDRESS="192.168.1.2"
--- END /etc/vz/conf/101.conf ---
created a "start" Action Script...
--- BEGIN /etc/vz/conf/101.start ---
#!/bin/bash
#
# OpenVZ Action Script 101.start
# Setup network devices
/sbin/ifconfig eth0 0
/sbin/ip addr add 192.168.1.2 dev eth0
/sbin/ip route add default dev eth0
--- END /etc/vz/conf/101.start ---
and created an "mount" Action Script...
--- BEGIN /etc/vz/conf/101.mount ---
#!/bin/bash
# OpenVZ Action Script 101.mount
#
[ -f /etc/sysconfig/vz ] || exit 1
[-f $VE CONFFILE] || exit 1
. /etc/sysconfig/vz
. $VE CONFFILE
/bin/echo 1 > /proc/sys/net/ipv4/conf/eth0/forwarding
/bin/echo 1 > /proc/sys/net/ipv4/conf/eth0/proxy_arp
# Define / get checksums for comparing
declare DHCRELAY MD5SUM PATCHED="1d50d252d6501fede6aa2dcca3bc1138"
/etc/sysconfig/dhcrelay"
```

Now it's possible to migrate this VE in offline mode:

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