Tasks

WikiSuite | Make app-kimchi Check and Fix Missing KVM Settings

Make app-kimchi Check and Fix Missing KVM Settings

Status
⊗ Closed

Description
Make app-kimchi Check and Fix Missing KVM Settings

Reported by
techana

Priority
2

Area
ClearOS (deprecated)
Kimchi (including KVM)

Details
For some reason, RPM installation of KVM/Libvirtd missies the "default" net and pool settings. This results in errors and hence hides the "Virtualization" tab in the Wok/Kimchi Admin Console.

In order to overcome this problem, I suggest adding a feature to the app to check for default settings. If they don't exist, then the app should ask for user's permission to generate them, as in the attached mockup.

The app may use libvirt-php or may directly execute virsh commands in order to do the settings' checking and generation.

1. Check for net default setting:
If shell_exec("virsh -c qemu:///system net-info default") is null, then it's missing.

If it exits, then the app should also check its activeness, as inactive default setting may also hinders prober functionality of Kimchi (see #3 below).

2. Check for pool default setting:
If shell_exec("virsh -c qemu:///system pool-info default") is null, then it's missing.

3. Add net default settings:
virsh -c qemu:///system net-define /usr/share/libvirt/networks/default.xml
virsh -c qemu:///system net-start default
virsh -c qemu:///system net-autostart default

The app may incorporate the default.xml file instead of relaying on the one that comes with the libvirt installation.

The default net setting may result in conflict between ClearOS' dnsmasq and Libvirtd's dnsmasq as explained here: https://wiki.libvirt.org/page/Libvirtd_and_dnsmasq . The app can adopt the solution in the given link, but I'm not

sure how this solution will affect ClearOS. So, this needs farther testing.

4. Add pool default settings:
No default.xml pool settings file comes with KVM installation, so:

virsh -c qemu:///system pool-define /dev/stdin <<EOF

<pool type='dir'>
<name>default</name>
<target>

<path>/var/lib/libvirt/images</path>
</target>

</pool>
EOF
virsh -c qemu:///system pool-start default
virsh -c qemu:///system pool-autostart default

PS: this feature request originated from here:
https://github.com/WikiSuite/app-kimchi/issues/3#issuecomment-349730319

Attachment
1. 🖼 Screen Shot 2017 12 08 At 5.12.21 AM Copy 🔍

Related

- ⊗ ClearOS in Gateway Mode Refuses to Route KVMs

Created
Thursday December 7, 2017 21:53:16 EST
by techana

LastModif
Saturday July 24, 2021 12:27:14 EDT

Comments

Marc Laporte 2017-12-07 22:19

Thank you for this very detailed report. And I love the mock-up you made!

On https://github.com/WikiSuite/app-kimchi/issues/3#issue-279643954, you indicate "I've already installed KVM as per:
https://www.clearos.com/resources/documentation/clearos/content:en_us:kb_7_install_virtualization_using_kvm"

WikiSuite: The most comprehensive and integrated Open Source enterprise solution.

app-kimchi installs KVM as a dependency. Can you confirm that you tried just yum install app-kimchi on a fresh install and have this issue?

Thanks!

techana 2017-12-08 08:07

Yes, I tried yum install app-kimchi on a fresh clearos 7.4 installation and the Virtualisation tab went missing. I had to activate the default settings as described above in order to get that tab.

techana 2017-12-08 11:47

Let me add that my clearos runs in Gateway mode.

Marc Laporte 2017-12-08 13:25

ah that could be something. My gateway is a distinct ClearOS.

Marc Laporte 2018-01-23 22:53

Do you think solving item266-ClearOS-in-Gateway-Mode-Refuses-to-Route-KVMs will also solve this?

techana 2018-01-24 00:19

This (item259) is about some missing files/settings (default net and pool). The other one (item266) is about routing VMs traffic through clearOS running as a

gateway.

Item266 has higher priority for sure and fixing it by enabling a "default" bridge network for example would most properly solve part of item259 as well.

Marc Laporte 2021-07-24 12:27

https://wikisuite.org/blogpost16-WikiSuite-will-now-support-all-major-Linux-distros