Virt-Manager

Mathieu Lamouroux - Sébastien Michaux

5 Mars 2012

Résumé

Rapport sur le test de déploiement de virt-manager sur Grid5000.
Pour cela nous avons réservé 10 noeuds sur Grid5000 : un sera dévoué à
virt-manager, les autres contiendront des machines virtuelles

1 Contexte

Machines déployées : Debian Squeeze griffon-50.nancy.grid5000.fr -¿ MASTER

griffon-51.nancy.grid5000.fr griffon-53.nancy.grid5000.fr griffon-65.nancy.grid5000.fr
griffon-68.nancy.grid5000.fr griffon-70.nancy.grid5000.fr griffon-77.nancy.grid5000.fr
griffon-79.nancy.grid5000.fr griffon-87.nancy.grid5000.fr griffon-90.nancy.grid5000.fr
Nous allons déployer 7 machines virtuelles sur chacun des noeuds.

2 Déploiement

Paquets mis à jour sur les noeuds

```
1   root@griffon-50:~# apt-get upgrade
2   Reading package lists... Done
3   Building dependency tree
4   Reading state information... Done
5   The following packages will be upgraded:
6     base-files bzip2 curl dpkg dpkg-dev file firmware-linux-free ia32-libs
7     lib32bz2-1.0 libbz2-1.0 libc-bin libc-dev-bin libc6 libc6-dev libc6-
          i386
8     libcurl3 libdpkg-perl libgnutls26 libgssapi-krb5-2 libk5crypto3 libkrb5
          -3
9     libkrb5support0 libmagic1 libpng12-0 librpm1 librpmbuild1 librpmio1
10    libssl0.9.8 libxenstore3.0 libxml2 linux-base linux-headers-2.6.32-5-
          amd64
11    linux-headers-2.6.32-5-common linux-image-2.6.32-5-xen-amd64 linux-libc
          -dev
12    locales module-init-tools openssl perl perl-base perl-modules rpm rpm-
          common
13    rpm2cpio tzdata xen-hypervisor-4.0-amd64 xen-utils-4.0 xenstore-utils
```

```
14  48 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
15  Need to get 110 MB of archives.
16  After this operation, 434 kB disk space will be freed.
17  Do you want to continue [Y/n]?
```

Installation de libvirt

```
1   root@griffon-50:~# apt-get install libvirt-bin
2   Reading package lists... Done
3   Building dependency tree
4   Reading state information... Done
5   The following extra packages will be installed:
6     dnsmasq-base ebtables libaio1 libasyncns0 libbluetooth3 libbrlapi0.5
7     libcap-ng0 libcurl3-gnutls libdirectfb-1.2-9 libflac8 libnl1 libogg0
8     libparted0debian1 libpciaccess0 libpulse0 libsdl1.2debian
9     libsdl1.2debian-alsa libsndfile1 libsvga1 libts-0.0-0 libvdeplug2
           libvirt0
10    libvorbis0a libvorbisenc2 libx86-1 libxml2-utils libxtst6 netcat-
           openbsd
11    qemu-kvm tsconf
12  Suggested packages:
13    parted nparted libparted0-dev libparted0-i18n pulseaudio policykit-1
           vde2
14    samba
15  The following NEW packages will be installed:
16    dnsmasq-base ebtables libaio1 libasyncns0 libbluetooth3 libbrlapi0.5
17    libcap-ng0 libcurl3-gnutls libdirectfb-1.2-9 libflac8 libnl1 libogg0
18    libparted0debian1 libpciaccess0 libpulse0 libsdl1.2debian
19    libsdl1.2debian-alsa libsndfile1 libsvga1 libts-0.0-0 libvdeplug2
20    libvirt-bin libvirt0 libvorbis0a libvorbisenc2 libx86-1 libxml2-utils
21    libxtst6 netcat-openbsd qemu-kvm tsconf
22  0 upgraded, 31 newly installed, 0 to remove and 0 not upgraded.
23  Need to get 8,044 kB of archives.
24  After this operation, 21.7 MB of additional disk space will be used.
25  Do you want to continue [Y/n]?
```

Il faut ensuite activer l'utilisation des sockets Unix pour permettre à libvirt de communiquer avec xen. Ceci se fait dans le fichier */etc/xen/xend-config.sxp* en ajoutant ou activant la ligne *(xend-unix-server yes)* puis en redémarant le service xen.
On s'assure que le service est bien actif

```
1   root@griffon-50:~# virsh version
2   Compiled against library: libvir 0.8.3
3   Using library: libvir 0.8.3
4   Using API: Xen 3.0.1
5   Running hypervisor: Xen 4.0.0
```

Ensuite on installe le client virsh (uniquement sur griffon-50 dans notre cas)

```
1   root@griffon-50:~# apt-get install virt-manager
```

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  consolekit dbus-x11 dosfstools esound-common etherboot-qemu gconf2
  gconf2-common gnome-icon-theme gnome-mime-data gvfs hdparm libart-2.0-2
  libatasmart4 libaudiofile0 libavahi-glib1 libblas3gf libbonobo2-0
  libbonobo2-common libbonoboui2-0 libbonoboui2-common libck-connector0
  libcroco3 libdbus-glib-1-2 libeggdbus-1-0 libesd0 libfam0 libffi5
      libgail18
  libgconf2-4 libgdu0 libgfortran3 libglade2-0 libgnome-keyring0
      libgnome2-0
  libgnome2-common libgnomecanvas2-0 libgnomecanvas2-common libgnomeui-0
  libgnomeui-common libgnomevfs2-0 libgnomevfs2-common libgnomevfs2-extra
  libgsf-1-114 libgsf-1-common libgtk-vnc-1.0-0 libgudev-1.0-0 libhal-
      storage1
  libhal1 libidl0 liblapack3gf libntfs-3g75 libntfs10 liborbit2
  libpam-ck-connector libpcap0.8 libpolkit-agent-1-0 libpolkit-backend
      -1-0
  libpolkit-gobject-1-0 librsvg2-2 librsvg2-common libsgutils2-2
      libsmbclient
  libtalloc2 libvde0 libvte-common libvte9 libwbclient0 libxaw7 libxcb-
      atom1
  libxmu6 libxpm4 libxt6 libxv1 libxxf86dga1 mtools ntfs-3g ntfsprogs
  openbios-ppc openbios-sparc openhackware policykit-1 policykit-1-gnome
  python-cairo python-dbus python-gconf python-glade2 python-gnome2
  python-gobject python-gtk-vnc python-gtk2 python-libvirt python-libxml2
  python-numpy python-pycurl python-pyorbit python-urlgrabber python-vte
      qemu
  qemu-keymaps qemu-system qemu-user qemu-utils seabios udisks vde2
      vgabios
  virt-viewer virtinst x11-utils
Suggested packages:
  esound-clients gconf-defaults-service gvfs-backends apmd libbonobo2-bin
  esound fam gnome-keyring desktop-base libgnomevfs2-bin librsvg2-bin
  sg3-utils floppyd python-dbus-doc python-dbus-dbg python-gnome2-doc
  python-gtk2-doc python-gobject-dbg python-numpy-doc python-numpy-dbg
  python-nose python-dev gfortran libcurl4-gnutls-dev python-pycurl-dbg
  qemu-user-static samba xfsprogs reiserfsprogs mdadm cryptsetup vde2-
      cryptcab
  ssh-askpass mesa-utils
The following NEW packages will be installed:
  consolekit dbus-x11 dosfstools esound-common etherboot-qemu gconf2
  gconf2-common gnome-icon-theme gnome-mime-data gvfs hdparm libart-2.0-2
  libatasmart4 libaudiofile0 libavahi-glib1 libblas3gf libbonobo2-0
  libbonobo2-common libbonoboui2-0 libbonoboui2-common libck-connector0
  libcroco3 libdbus-glib-1-2 libeggdbus-1-0 libesd0 libfam0 libffi5
      libgail18
  libgconf2-4 libgdu0 libgfortran3 libglade2-0 libgnome-keyring0
      libgnome2-0
```

```
41   libgnome2-common libgnomecanvas2-0 libgnomecanvas2-common libgnomeui-0
42   libgnomeui-common libgnomevfs2-0 libgnomevfs2-common libgnomevfs2-extra
43   libgsf-1-114 libgsf-1-common libgtk-vnc-1.0-0 libgudev-1.0-0 libhal-
        storage1
44   libhal1 libidl0 liblapack3gf libntfs-3g75 libntfs10 liborbit2
45   libpam-ck-connector libpcap0.8 libpolkit-agent-1-0 libpolkit-backend
        -1-0
46   libpolkit-gobject-1-0 librsvg2-2 librsvg2-common libsgutils2-2
        libsmbclient
47   libtalloc2 libvde0 libvte-common libvte9 libwbclient0 libxaw7 libxcb-
        atom1
48   libxmu6 libxpm4 libxt6 libxv1 libxxf86dga1 mtools ntfs-3g ntfsprogs
49   openbios-ppc openbios-sparc openhackware policykit-1 policykit-1-gnome
50   python-cairo python-dbus python-gconf python-glade2 python-gnome2
51   python-gobject python-gtk-vnc python-gtk2 python-libvirt python-libxml2
52   python-numpy python-pycurl python-pyorbit python-urlgrabber python-vte
        qemu
53   qemu-keymaps qemu-system qemu-user qemu-utils seabios udisks vde2
        vgabios
54   virt-manager virt-viewer virtinst x11-utils
55 0 upgraded, 110 newly installed, 0 to remove and 0 not upgraded.
56 Need to get 63.5 MB of archives.
57 After this operation, 186 MB of additional disk space will be used.
58 Do you want to continue [Y/n]?
59 root@griffon-50:~# apt-get install virt-manager
60 Reading package lists... Done
61 Building dependency tree
62 Reading state information... Done
63 The following extra packages will be installed:
64   consolekit dbus-x11 dosfstools esound-common etherboot-qemu gconf2
65   gconf2-common gnome-icon-theme gnome-mime-data gvfs hdparm libart-2.0-2
66   libatasmart4 libaudiofile0 libavahi-glib1 libblas3gf libbonobo2-0
67   libbonobo2-common libbonoboui2-0 libbonoboui2-common libck-connector0
68   libcroco3 libdbus-glib-1-2 libeggdbus-1-0 libesd0 libfam0 libffi5
        libgail18
69   libgconf2-4 libgdu0 libgfortran3 libglade2-0 libgnome-keyring0
        libgnome2-0
70   libgnome2-common libgnomecanvas2-0 libgnomecanvas2-common libgnomeui-0
71   libgnomeui-common libgnomevfs2-0 libgnomevfs2-common libgnomevfs2-extra
72   libgsf-1-114 libgsf-1-common libgtk-vnc-1.0-0 libgudev-1.0-0 libhal-
        storage1
73   libhal1 libidl0 liblapack3gf libntfs-3g75 libntfs10 liborbit2
74   libpam-ck-connector libpcap0.8 libpolkit-agent-1-0 libpolkit-backend
        -1-0
75   libpolkit-gobject-1-0 librsvg2-2 librsvg2-common libsgutils2-2
        libsmbclient
76   libtalloc2 libvde0 libvte-common libvte9 libwbclient0 libxaw7 libxcb-
        atom1
77   libxmu6 libxpm4 libxt6 libxv1 libxxf86dga1 mtools ntfs-3g ntfsprogs
78   openbios-ppc openbios-sparc openhackware policykit-1 policykit-1-gnome
```

```
 79      python-cairo python-dbus python-gconf python-glade2 python-gnome2
 80      python-gobject python-gtk-vnc python-gtk2 python-libvirt python-libxml2
 81      python-numpy python-pycurl python-pyorbit python-urlgrabber python-vte
            qemu
 82      qemu-keymaps qemu-system qemu-user qemu-utils seabios udisks vde2
            vgabios
 83      virt-viewer virtinst x11-utils
 84    Suggested packages:
 85      esound-clients gconf-defaults-service gvfs-backends apmd libbonobo2-bin
 86      esound fam gnome-keyring desktop-base libgnomevfs2-bin librsvg2-bin
 87      sg3-utils floppyd python-dbus-doc python-dbus-dbg python-gnome2-doc
 88      python-gtk2-doc python-gobject-dbg python-numpy-doc python-numpy-dbg
 89      python-nose python-dev gfortran libcurl4-gnutls-dev python-pycurl-dbg
 90      qemu-user-static samba xfsprogs reiserfsprogs mdadm cryptsetup vde2-
            cryptcab
 91      ssh-askpass mesa-utils
 92    The following NEW packages will be installed:
 93      consolekit dbus-x11 dosfstools esound-common etherboot-qemu gconf2
 94      gconf2-common gnome-icon-theme gnome-mime-data gvfs hdparm libart-2.0-2
 95      libatasmart4 libaudiofile0 libavahi-glib1 libblas3gf libbonobo2-0
 96      libbonobo2-common libbonoboui2-0 libbonoboui2-common libck-connector0
 97      libcroco3 libdbus-glib-1-2 libeggdbus-1-0 libesd0 libfam0 libffi5
            libgail18
 98      libgconf2-4 libgdu0 libgfortran3 libglade2-0 libgnome-keyring0
            libgnome2-0
 99      libgnome2-common libgnomecanvas2-0 libgnomecanvas2-common libgnomeui-0
100      libgnomeui-common libgnomevfs2-0 libgnomevfs2-common libgnomevfs2-extra
101      libgsf-1-114 libgsf-1-common libgtk-vnc-1.0-0 libgudev-1.0-0 libhal-
            storage1
102      libhal1 libidl0 liblapack3gf libntfs-3g75 libntfs10 liborbit2
103      libpam-ck-connector libpcap0.8 libpolkit-agent-1-0 libpolkit-backend
            -1-0
104      libpolkit-gobject-1-0 librsvg2-2 librsvg2-common libsgutils2-2
            libsmbclient
105      libtalloc2 libvde0 libvte-common libvte9 libwbclient0 libxaw7 libxcb-
            atom1
106      libxmu6 libxpm4 libxt6 libxv1 libxxf86dga1 mtools ntfs-3g ntfsprogs
107      openbios-ppc openbios-sparc openhackware policykit-1 policykit-1-gnome
108      python-cairo python-dbus python-gconf python-glade2 python-gnome2
109      python-gobject python-gtk-vnc python-gtk2 python-libvirt python-libxml2
110      python-numpy python-pycurl python-pyorbit python-urlgrabber python-vte
            qemu
111      qemu-keymaps qemu-system qemu-user qemu-utils seabios udisks vde2
            vgabios
112      virt-manager virt-viewer virtinst x11-utils
113    0 upgraded, 110 newly installed, 0 to remove and 0 not upgraded.
114    Need to get 63.5 MB of archives.
115    After this operation, 186 MB of additional disk space will be used.
116    Do you want to continue [Y/n]?
```

3 Installation

4