

## GNU/Linux Administration - Support #659

### Install Qemu and Virt-Manager on Arch

09/18/2015 04:24 PM - Daniel Curtis

<b>Status:</b>	Closed	<b>Start date:</b>	09/20/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Daniel Curtis	<b>% Done:</b>	100%
<b>Category:</b>	Virtualization	<b>Estimated time:</b>	2.00 hours
<b>Target version:</b>	Arch Linux	<b>Spent time:</b>	3.00 hours

#### Description

This is a simple guide for getting started with virt-manager on Arch Linux.

### Prepare the Environment

- Make sure the system is up to date:

```
sudo pacman -Syu
```

- Install libvirt and a few dependencies:

```
sudo pacman -S libvirt qemu ebttables dnsmasq bridge-utils openbsd-netcat
```

- **NOTE:** Extra architectures can be installed by installing the qemu-arch-extra package

```
sudo pacman -S qemu-arch-extra
```

- Create the **qemu** user and added it to **kvm** group:

```
sudo groupadd kvm  
sudo useradd -MrG kvm qemu
```

- Edit the qemu config:

```
sudo nano /etc/libvirt/qemu.conf
```

- And set the user and groups that qemu will use:

```
user = "qemu"  
group = "kvm"
```

- Start and enable libvirtd.service at boot:

```
sudo systemctl enable libvirtd  
sudo systemctl start libvirtd
```

- Change the group authorized to access the RW daemon socket, create the following file:

```
sudo nano /etc/polkit-1/rules.d/49-org.libvirt.unix.manager.rules
```

- And add the following:

```
/* Allow users in kvm group to manage the libvirt
daemon without authentication */
polkit.addRule(function(action, subject) {
    if (action.id == "org.libvirt.unix.manage" &&
        subject.isInGroup("kvm")) {
        return polkit.Result.YES;
    }
});
```

- Then add the **bob** user to the **kvm** group:

```
usermod -aG kvm bob
```

- Log out and then log back in for the permissions to take effect.

## Install virt-manager

- Install virt-manager hypervisor:

```
pacman -S virt-manager
```

- Create a new **QEMU/KVM Session** connection

## Resources

- <https://wiki.archlinux.org/index.php/Libvirt>
- <https://wiki.archlinux.org/index.php/QEMU>
- <https://wiki.archlinux.org/index.php/KVM>
- <https://wiki.archlinux.org/index.php/LXC>
- <https://bbs.archlinux.org/viewtopic.php?id=157162>

## History

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#1 - 09/18/2015 04:35 PM - Daniel Curtis

- Description updated

#2 - 09/21/2015 03:55 PM - Daniel Curtis

- Description updated

- Status changed from New to In Progress

- % Done changed from 0 to 20

#3 - 09/21/2015 04:50 PM - Daniel Curtis

- Description updated

- Status changed from In Progress to Resolved

- % Done changed from 20 to 100

#4 - 11/10/2015 11:18 AM - Daniel Curtis

- Description updated

#5 - 11/27/2015 04:46 PM - Daniel Curtis

- Status changed from Resolved to Closed

#6 - 01/17/2016 11:41 AM - Daniel Curtis

- Description updated

- Subject changed from *Install virt-manager on Arch* to *Install Qemu and Virt-Manager on Arch*