

# **Package VIRT**

## **Version 4.0.0-testing-x86\_64-r60780**

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# 1 Documentation Of Package VIRT

## 1.1 VIRT – Support For Virtualization

This package supports the use of fli4l as a virtual machine. Using a 64 bit kernel for the x86\_64 architecture is required.

For virtualization of a fli4l using *Xen*, *KVM*, *VMware* or *Hyper-V* this package loads the necessary kernel modules. Furthermore you can set additional options, which may be useful for the use as virtual machine.

### 1.1.1 Xen

**OPT\_XEN** The activation of this variable ensures that the Xen-specific kernel modules are loaded on fli4l. This is necessary if the fli4l system is virtualized using Xen.

The following drivers are loaded:

- netxen\_nic
- xen-blkfront
- xen-kbdfont
- xen-netfront

Default Setting: OPT\_XEN='no'

Example: OPT\_XEN='yes'

### 1.1.2 Virtio

**OPT\_VIRTIO** The activation of this variable ensures that the KVM-specific kernel modules are loaded on fli4l. This is necessary if the fli4l system is virtualized using KVM.

The following drivers are loaded:

- virtio\_balloon
- virtio\_blk
- virtio\_net
- virtio\_pci

Default Setting: OPT\_VIRTIO='no'

Example: OPT\_VIRTIO='yes'

**VIRTIO\_QEMU\_GUEST\_AGENT** You can start the QEMU Guest Agent<sup>1</sup> on the virtualized fli4l with this option. This way the host can execute certain management functions,

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<sup>1</sup>See [https://wiki.libvirt.org/page/Qemu\\_guest\\_agent](https://wiki.libvirt.org/page/Qemu_guest_agent)

which need support from within the guest system. Retrieving statistics or triggering a clean shutdown or suspend is possible for example.

This option requires correspondent configuration of the virtual machine on the host side. See the documentation of KVM, virt-manager<sup>2</sup> or Proxmox<sup>3</sup> for that.

Default Setting: `VIRTIO_QEMU_GUEST_AGENT='no'`

Example: `VIRTIO_QEMU_GUEST_AGENT='yes'`

### 1.1.3 VMware

**OPT\_VMWARE** Activating this variable triggers loading of the specific kernel modules required for virtualizing fli4l using VMware.

The following drivers are loaded:

- `vmw_pvscsi`
- `mptsas`
- `mptspi`
- `ahci`
- `ata_piix`
- `vmxnet3`
- `e1000e`
- `e1000`
- `pcnet32`

Default setting: `OPT_VMWARE='no'`

Example: `OPT_VMWARE='yes'`

### 1.1.4 Hyper-V

**OPT\_HYPERV** Activating this variable ensures that Hyper-V specific kernel modules are loaded. This is necessary for the fli4l system running virtualized using Hyper-V.

The following drivers are loaded:

- `pci_hyperv`
- `hv_storvsc`
- `hv_utils`
- `hv_balloon`
- `hv_sock`
- `hv_netvsc`

Default setting: `OPT_HYPERV='no'`

Example: `OPT_HYPERV='yes'`

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<sup>2</sup>See <https://virt-manager.org/>

<sup>3</sup>See <https://pve.proxmox.com/wiki/Qemu-guest-agent>

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