

General: The node-installer fails to detect the bridge interfaces after upgrading to RHEL/CentOS 7.3

In recent (december 2016) versions of RHEL/CentOS 7.3, the bridge kernel module has been split into two components: the `bridge` and `br_netfilter` kernel modules. By default, Bright adds the `bridge` kernel module to the list of kernel modules in any software image. After upgrading a software image to RHEL/CentOS 7.3, the kernel gets updated to version 3.10.0-514.2.2.el7.x86_64 in which the bridge kernel module has been split, any compute node with a bridge interface will fail to boot with the following error message:

```
Dec 15 13:29:37 148.187.81.15 node-installer: Can't open directory '/proc/sys/net/bridge/,'.
```

```
Dec 15 13:29:37 148.187.81.15 node-installer: There was a fatal problem. This node can not be installed until the problem is corrected.
```

```
Dec 15 13:29:37 148.187.81.15 node-installer: The error was: The 'bridge' kernel modules is not loaded. Please add 'bridge' kernel module to softwareimage kernelmodules.
```

```
Dec 15 13:29:37 148.187.81.15 node-installer: Updating device status: The 'bridge' kernel modules is not loaded. Please add 'bridge' kernel module to softwareimage kernelmodules.
```

To fix this issue, the `br_netfilter` kernel module needs to be added:

```
# crmsh
```

```
% softwareimage use default-image
```

```
% kernelmodules
```

```
% add br_netfilter
```

```
% commit
```

```
(wait until the initrd is generated)
```

The "`default-image`" can be set to a new software image name. This new name can then be used for the image used by the compute nodes with the bridge interfaces.

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