*11.5. LABS* 



## **Exercise 11.1: Create a VLAN-trunked interface**

NOTE: if you have a problem with this exercise, you may need to reboot and choose a different kernel. Create a new tagged VLAN interface with the id 7 and these settings:

- The physical interface should be the main interface (eth0).
- The IP address should be 192.168.X.100, where X is a number unique to your classroom/lab.
- The Netmask should be 255.255.25.0.

## Solution 11.1

- 1. Enable VLANs:
  - On CentOS: edit the file /etc/sysconfig/network and add the following content:

```
VLAN=yes
VLAN_NAME_TYPE="DEV_PLUS_VID"
```

- 2. Create a VLAN interface configuration file:
  - On CentOS, edit or create the file

```
/etc/sysconfig/network-scripts/ifcfg-<INTERFACE>.7
```

## with the following content:

```
DEVICE=<INTERFACE>.7
BOOTPROTO=static
TYPE=vlan
ONBOOT=yes
IPADDR=192.168.X.100
NETMASK=255.255.255.0
PHYSDEV="<INTERFACE>"
```

On OpenSUSE, edit or create the file

```
/etc/sysconfig/network/ifcfg-<INTERFACE>.7
```

## with the following content:

```
NAME='<INTERFACE> vlan'
STARTMODE='auto'
VLAN_ID='7'
IPADDR='192.168.X.100/24'
ETHERDEVICE=<INTERFACE>
```

• On **Ubuntu**, edit the file:

/etc/network/interfaces

and add the following stanza:



The package vlan may need to be installed and the kernel-module 8021q loaded.

3. Start the newly defined interface:

```
# ifup <INTERFACE>.7
```

LFS211: V\_2017-12-01

