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# Arch: VLANs in rc.conf

- the package vconfig is needed in order to use VLANs



Deprecated

```
pacman -Sy vconfig
```

- There were several approaches in the Forum to configure VLANs in rc.conf. The Problem is: therefor its necessary to do extensive changes in “/etc/rc.d/network”.
- After a update its possible that all changes are gone.
- I wasn't interested in doing multiple changes in “/etc/rc.d/network” after updates.
- That's why I write my own variant. It's only needed to change two lines.
- With my Script it's only Possible to add VLAN and not to remove.
- “vconfig” is designed that after a reboot VLAN interface are not configured.
- If you want to achieve more, further changes have to include into “/etc/rc.d/network” and I wanted to avoid this.

## Setup:

- First the Script, put it into “/etc/conf.d”.

[create\\_vlans](#)

```
#!/bin/bash
#FILES
#      /proc/net/vlan/config
#      /proc/net/vlan/[vlan-device]
# rc.conf:
# VLANs
#
#VLAN_DEVS=(eth0.6)
#####
# /etc/rc.d/network
# vlan settings
#[ -f /etc/conf.d/create_vlans ] && . /etc/conf.d/create_vlans
#
### Variables ###
LSMOD_PATH="/usr/bin/lsmmod"
VLAN_PATH="/proc/net/vlan/"
VCONFIG_PATH="/usr/sbin/vconfig"
#
### Functions ###
vlan_add()
{
```

```

if [ -e $VCONFIG_PATH ];then
  /usr/bin/lsmmod | grep 8021q > /dev/null 2> /dev/null
  if [ $? == 0 ];then
    if [ ! -e $VLAN_PATH$1 ];then
      VLANS_DEV=$1
      VLAN_IFACE=`echo $VLANS_DEV | cut -d "." -f1`
      VLAN_ID=`echo $VLANS_DEV | cut -d "." -f2`
      $VCONFIG_PATH add $VLAN_IFACE $VLAN_ID > /dev/null 2>
/dev/null
    fi
  else
    echo "8021q Module not loaded"
  fi
else
  echo "please install vconfig: pacman -S vconfig"
fi
}
vlan_rem()
{
  vconfig rem $1
}
#
### Main ###
if [ ! -e $LSMOD_PATH ];then
  echo "/usr/bin/lsmmod not available, unable to check vlan module"
else
  for vlans in ${VLAN_DEVS[@]}; do
    vlan_add $vlans
  done
fi

```

- Adapt "/etc/rc.d/network" **Attention: the changed are gone after update initscripts.**
- Add these lines before the other includes.

```

# vlan settings
[ -f /etc/conf.d/create_vlans ] && . /etc/conf.d/create_vlans

```

## configure VLANs

- VLAN interfaces now can be entered in the rc.conf.
- With "VLAN\_DEVS=()" the interfaces were created [Interface.VLAN\_ID].
- Then you can assign an IP-Adresse to the interface. The interface name is "vlan6" for example. This name must not contain "." or " ".

### Example:

```

#VLANs
VLAN_DEVS=(eth0.6)

```

```
interface=eth0
address=
netmask=
broadcast=
gateway=

interface=eth0.6
address=172.16.10.1
netmask=255.255.0.0
broadcast=172.16.255.255
gateway=
```

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