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Linux Vlan

Configuration

Guide

# Linux Vlan Configuration Guide

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VLAN

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ports ,Create ACL*

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multicast installation.

*What is a VLAN?*

*Default VLAN and*

*Native VLAN VLAN:*

*Static vs Dynamic*

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Configuring VLANs  
and Assigning ports to  
VLANs

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### Linux Vlan Configuration Guide

#### Configuration Guide

How to configure a VLAN in Linux Simple example. One of the most common topologies that you will encounter as a sysadmin is a host connected to a...

Complex example.

Next, take a look at a more complex topology. In the

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topology below, you  
can see a host (A  
KVM... Wrapping up.  
That's really all there  
...

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VLAN in Linux |  
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Setting Up 802.1Q

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### VLAN Tagging Using

ifcfg Files Configure

the parent interface in

/etc/sysconfig/network-  
scripts/ifcfg-

device\_name, where

device\_name is the

name of... Configure

the VLAN interface

configuration in the /et

c/sysconfig/network-

scripts/ directory. The

configuration file

name... ..

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### Configuration

#### Guide

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#### 10.4. Configure 802.1Q VLAN

Tagging Using the  
Command Line ...

Setting up 802.1q  
VLAN tagging by  
loading 8021q Linux  
kernel driver. First,  
make sure that the  
Linux kernel driver  
(module) called 8021q  
is loaded: # lsmod |

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grep 8021q If the module is not loaded, load it with the following modprobe command: #

```
modprobe 8021q.
```

Method #1:

CentOS/RHLE/Fedora Linux VLAN HowTo.

I am using

RHEL/CentOS Linux with VLAN ID # 5. So

I need to copy file /etc /sysconfig/network-

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scripts/ifcfg-eth0 to /etc/sysconfig/network-scripts/ifcfg-eth0.5

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HowTo: Configure Linux Virtual Local Area Network (VLAN

...

Taking Inventory of Your Proxmox Server's Current Network

Configuration: 1. Log

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in to your server's administration page and navigate to Proxmox's network configuration. This can be found by... 2. If you haven't done so already, connect your Proxmox server's second network port to your L3 ...

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### Proxmox- An Introductory Guide

If you are using windows machine as a server, most of the time's nic card manufacturers provide, a graphical utility to configure vlan options for the nic card. However Linux machines provide an inbuilt functionality to configure your nic

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card interface send VLAN information in the traffic. Configuring vlan in Linux machine is not a touch task, it only requires the correct vlan, and ip information to be present on the interface configuration file.

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linux nic interface

add [interface-name]

[vlan-id] Creates a

vlan-device on

[interface-name]. The

resulting vlan-device

will be called

according to the

nameing convention

set. rem [vlan-device]

Removes the named

vlan-device. set\_flag

[vlan-device] 0 | 1

When 1, ethernet

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header reorders are turned on. Dumping the device will appear as a common ethernet device without vlans.

---

vconfig(8): VLAN config program - Linux man page  
Configuring a VLAN over a Bond This section will show

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Configuring a VLAN

over a bond

consisting of two

Ethernet links

between a server and

an Ethernet switch.

The switch has a

second bond to

another server. Only

the configuration for

the first server will be

shown as the other is

essentially the same

apart from the IP

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## Linux Vlan

### addresses.

## Configuration

# Guide

---

11.2.5. Configuring a  
VLAN over a Bond  
Red Hat Enterprise ...  
Switch(config)#vlan  
10: Create VLAN and  
associate number ID  
10 with it: Switch(confi  
g-vlan)#name Sales :  
Assign name to  
VLAN: Switch(config-  
vlan)#exit: Return in

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Global configuration mode from VLAN configuration mode: S  
switch(config)#interface fastethernet 0/1:  
Enter in interface configuration mode: S  
switch(config-if)#switchport mode access

---

VLAN Configuration  
Commands Step by

*Page 24/41*

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### Step Explained

#### VLAN Connections.

During the configuration of VLAN on port, we need to know what type of connection it has.

Switch supports two types of VLAN

connection. Access link; Trunk link;

Access link. Access link connection is the connection where

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### Configuration

switch port is connected with a device that has a standardized Ethernet NIC.

---

VLAN Basic Concepts  
Explained with  
Examples  
Instant Configuration  
Create the VLAN  
device. Run ip link to  
confirm that it has

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been created. This interface behaves like a normal interface. Add an IP. Turning down the device. Removing the device. You will have to have associated .network files for each .netdev to handle addressing and routing.

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Arch Linux

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it

There are some scenarios where we want to assign

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multiple IPs from different VLAN on the same Ethernet card (nic) on Linux servers (CentOS / RHEL). This can be done by enabling VLAN tagged interface. But for this to happen first we must make sure multiple VLANs are attached to port on switch or in other words we can say we

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should configure trunk port by adding multiple VLANs on switch.

---

How to Configure  
VLAN tagged NIC  
(Ethernet Card) on  
Linux ...

Change the physical  
switch port  
configuration to tag  
packets it forwards to

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OVS with the native VLAN instead of forwarding them untagged. Change the OVS configuration for the physical port to a native VLAN mode. For example, the following sets up a bridge with port eth0 in “native-tagged” mode in VLAN 9:

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VLANs — Open

vSwitch 2.14.90

documentation

Voice VLAN

Configuration

Guidelines These are

the voice VLAN

configuration

guidelines: † You

should configure

voice VLAN on switch

access ports; voice

VLAN is not

supported on trunk

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ports. Note Voice

VLAN is only

supported on access ports and not on trunk ports, even though the configuration is allowed. † The voice VLAN should be present and active on the switch for the IP phone to correctly communicate on the voice VLAN.

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### Configuration

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#### Configuring Voice VLAN - Cisco

This user guide provides in-depth documentation on the Cumulus Linux installation process, system configuration and management, network solutions, and monitoring and troubleshooting recommendations. In

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In addition, the quick start guide provides an end-to-end setup process to get you started.

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Cumulus Linux 4.2  
User Guide | Cumulus  
Linux 4.2

All but the smallest networks are typically split into Virtual Local Area Networks

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(VLANs, for short), and understanding how to properly troubleshoot them can save you hours of back-and-forth with your network team. In the previous articles, I covered VLAN basics and configuration for Red Hat Enterprise Linux (RHEL) systems. Here, I'll cover ...

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A sysadmin's guide to  
troubleshooting

VLANs

Software

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Guide—Release

15.0(2)SG

OL-23818-01 1

Configuring Layer 2

Ethernet Interfaces

This chapter

describes how to use

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the command-line interface (CLI) to configure Fast Ethernet and Gigabit Ethernet interfaces for Layer 2 switching on Catalyst 4500 series switches. It also provides guidelines, procedures, and configuration ...

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### Ethernet Interfaces

#### VLAN Overview With

multiple VLANs on a card, a server with a single card can have a logical presence on multiple IP subnets.

By default, 128 VLANs can be defined for each VLAN-aware card on your server. However, this number can be increased by

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Changing the system  
parameters.

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