Linux Hints, Top Tips, and FAQs

Here are some of the Linux hints and documentation that seems to be woefully lacking or just misleading on the greater wider Internet.

Setting iDRAC8 Server info

This applies to Dell servers of course. First off, install ipmitools:

apt-get update; apt-get install ipmitools

To find out the options available in ipmitools, run:

ipmitools help

and there is a manpage available too.

To set the iDRAC8 System Host Name, you want:

ipmitools mc setsysinfo system_name HOSTNAME

To set the iDRAC8 Operating System, you want:

ipmitools mc setsysinfo os_name OSNAME

To set the iDRAC8 Operating System Version, you want:

ipmitools mc setsysinfo delloem_os_version OSVERSION

And that's it - after that, if you refresh the iDRAC8 Server Overview screen you will see the changes you made.

Ubuntu LACP with Cisco Catalyst Switches

This will of course depend on the switch model you are using and the IOS version, but I've documented here what works in the installations I've been assisting with.

Ubuntu LACP Configuration

This example shows the /etc/network/interfaces configuration using two ethernet interfaces on a server to be combined to form a LAG, and using LACP. Here I'm using VLAN 3, 5 and 7 on the server, and they are being passed by the LAG from the switch the server is connected to. VLAN 3 is for server management access, whereas VLAN 5 and 7 are passed on to virtual machines within the server.

```
source /etc/network/interfaces.d/*
```

The loopback network interface auto lo iface lo inet loopback auto enol iface enol inet manual bond-master bond0 auto eno2 iface eno2 inet manual bond-master bond0 auto bond0 iface bond0 inet manual bond-mode 802.3ad bond-miimon 100 bond-lacp-rate 1 bond-slaves enol eno2 auto bond0.3 iface bond0.3 inet manual vlan-raw-device bond0 auto bond0.5 iface bond0.5 inet manual vlan-raw-device bond0 auto bond0.7 iface bond0.7 inet manual vlan-raw-device bond0 auto br0 iface br0 inet static address 192.168.1.2 netmask 255.255.255.0 gateway 192.168.1.254 bridge ports bond0.3 bridge_stp off bridge_fd 0 auto brl iface brl inet manual bridge_ports bond0.5 bridge stp off bridge_fd 0 auto br2 iface br2 inet manual bridge_ports bond0.7 bridge stp off bridge_fd 0

Cisco Catalyst 2950G-48 Configuration

3/3

Configuration snipped for a Catalyst 2950G-48 running '12.1(22)EA13'. Note that the 2950G-48 needs the flowcontrol send off command - other switches don't seem to need this.

For security reasons, I've made the native VLAN on the trunk to be 999, rather than the default VLAN of 1. I strongly recommend never to use VLAN1 for anything.

```
interface Port-channel2
description Trunk
switchport trunk native vlan 999
switchport mode trunk
load-interval 30
flowcontrol send off
I
interface FastEthernet0/1
description LAG-PORT1
switchport trunk native vlan 999
switchport mode trunk
load-interval 30
channel-group 2 mode active
I
interface FastEthernet0/2
description LAG-PORT2
switchport trunk native vlan 999
switchport mode trunk
load-interval 30
channel-group 2 mode active
!
```

With this configuration, VLAN 999 is the native VLAN (frames sent untagged), and all other VLANs (including 1) are sent tagged.

Back to Home page

From: https://www.bgp4all.com/pfs/ - Philip Smith's Internet Development Site

Permanent link: https://www.bgp4all.com/pfs/hints/linux?rev=1594713847



Last update: 2020/07/14 08:04

2025/08/02 20:23