# 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.

### **Installing latest PHP on Ubuntu**

Ubuntu 18.04 ships with php7.2. But software like LibreNMS now specifies a minimum of php7.3 so what do you do?

Easy, install the latest php which, at time of writing, is 7.4.

## 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.

BTW, this is a simplified version of what is written up on Dell's website

### **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 br1
iface br1 inet manual
```

3/4

```
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**

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
ŗ
interface FastEthernet0/1
description LAG-PORT1
switchport trunk native vlan 999
switchport mode trunk
load-interval 30
channel-group 2 mode active
ŗ
interface FastEthernet0/2
description LAG-PORT2
switchport trunk native vlan 999
switchport mode trunk
load-interval 30
channel-group 2 mode active
i.
```

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

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