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Netkiller Linux Basics 手札

Debian Family(Ubuntu) Handbook

Mr. Neo Chan, 陈景峰

中国广东省深圳市宝安区龙华镇

518109

- +86 755 29812080
- +86 755 29812080
- <openunix@163.com>

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内容摘要

对初学Linux的爱好者忠告

玩Linux最忌reboot (重新启动) 这是windows玩家坏习惯

Linux只要接上电源你就不要再想用reboot,shutdown,halt,poweroff命令,Linux系统和应用软件一般备有reload,reconfigure,restart/start/stop...不需要安装软件或配置服务器后使用reboot重新引导计算机

在Linux系统里SIGHUP信号被定义为刷新配置文件,有些程序没有提供reload 参数,你可以给进程发送HUP信号,让它刷新配置文件,而不用restart.通过 pkill,killall,kill 都可以发送HUP信号例如: pkill -HUP httpd

下面是我多年积累下来的经验总结,整理成文档供大家参考:

<u>Netkiller Architect</u> 于 <u>Netkiller Linux 手札</u> <u>Netkiller Database 手札</u> Netkiller Debian 手札 Netkiller CentOS 手札 Netkiller FreeBSD 手札 Netkiller Shell 手札 <u>Netkiller Monitoring</u>手 <u>Netkiller Web 手札</u> Netkiller Storage 手札 Netkiller Mail System 手札 札 Netkiller MySQL 手札 Netkiller LDAP 手札 Netkiller Security 手札 Netkiller Version 手札 <u>Netkiller Studio Linux</u> 手 Netkiller Intranet 手札 Netkiller Cisco IOS 手札 Netkiller Writer 手札 札



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3. 支持这个项目(Support this project)

1. 内容简介

当前文档档容比较杂, 涉及内容广泛。

慢慢我会将其中章节拆成新文档.

文档内容简介:

- 1. Network
- 2. Security
- 3. Web Application
- 4. Database
- 5. Storage And Backup/Restore
- 6. Cluster
- 7. Developer

1.1. Audience(读者对象)

This book is intended primarily for Linux system administrators who are familiar with the following activities:

Audience

- 1. Linux system administration procedures, including kernel configuration
- 2. Installation and configuration of cluster, such as load balancing, High Availability,
- 3. Installation and configuration of shared storage networks, such as Fibre Channel SANs
- 4. Installation and configuration of web server, such as apache, nginx, lighttpd, tomcat/resin ...

本文档的读者对象:

文档面向有所有读者。您可以选读您所需要的章节,无需全篇阅读,因为有些章节不一定对你有用,用得着就翻来看看,暂时用不到的可以不看.

大体分来读者可以分为几类:

- 1. 架构工程师
- 2. 系统管理员
- 3. 系统支持,部署工程师

不管是谁,做什么的,我希望通过阅读这篇文档都能对你有所帮助。

1.2. 写给读者

欢迎提出宝贵的建议,如有问题请到邮件列表讨论

为什么写这篇文章

有很多想法,工作中也用不到所以未能实现,所以想写出来,和大家分享.有一点写一点,写得也不好,只要能看懂就行,就当学习笔记了.

开始零零碎碎写过一些文档,也向维基百科供过稿,但维基经常被ZF封锁,后来发现sf.net可以提供主机存放文档,便做了迁移。并开始了我的写作生涯。

这篇文档是作者8年来对工作的总结,是作者一点一滴的积累起来的,有些笔记已经丢失, 所以并不完整。

因为工作太忙整理比较缓慢。目前的工作涉及面比较窄所以新文档比较少。

我现在花在技术上的时间越来越少,兴趣转向摄影,无线电。也想写写摄影方面的心得体会。

写作动力:

曾经在网上看到外国开源界对中国的评价,中国人对开源索取无度,但贡献却微乎其微.这句话一直记在我心中,发誓要为中国开源事业做我仅有的一点微薄贡献

另外写文档也是知识积累,还可以增加在圈内的影响力.

人跟动物的不同,就是人类可以把自己学习的经验教给下一代人.下一代在上一代的基础上再创新,不断积累才有今天.

所以我把自己的经验写出来,可以让经验传承

没有内容的章节:

目前我自己一人维护所有文档,写作时间有限,当我发现一个好主题就会加入到文档中,待我有时间再完善章节,所以你会发现很多章节是空无内容的.

文档目前几乎是流水帐试的写作,维护量很大,先将就着看吧.

我想到哪写到哪,你会发现文章没一个中心,今天这里写点,明天跳过本章写其它的.

文中例子绝对多,对喜欢复制然后粘贴朋友很有用,不用动手写,也省时间.

理论的东西,网上大把,我这里就不写了,需要可以去网上查.

我爱写错别字,还有一些是打错的,如果发现请指正.

文中大部分试验是在Debian/Ubuntu/Redhat AS上完成.

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http://netkiller.sourceforge.net/technology.html

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2. 作者简介

主页地址: http://netkiller.sourceforge.net, http://netkiller.github.com/

陈景峰(彳与 41ム にム)

Nickname: netkiller | English name: Neo chen | Nippon name: ちんけいほう (音訳) | Korean Thailand name:

IT民工, UNIX like Evangelist, 业余无线电爱好者 (呼号: BG7NYT), 户外运动以及摄影爱 好者。

《PostgreSQL实用实例参考》, 《Postfix 完整解决方案》, 《Netkiller Linux 手札》的作者 2001年来深圳进城打工,成为一名外来务工者.

2002年我发现不能埋头苦干,埋头搞技术是不对的,还要学会"做人".

2003年这年最惨,公司拖欠工资16000元,打过两次官司2005才付清.

2004年开始加入分布式计算团队,目前成绩

2004-10月开始玩户外和摄影

2005-6月成为中国无线电运动协会会员

2006年单身生活了这么多年,终于找到归宿.

2007物价上涨,金融危机,休息了4个月(其实是找不到工作)

2008终于找到英文学习方法,,《Netkiller Developer 手札》,《Netkiller Document 手札》

2008-8-8 08:08:08 结婚,后全家迁居湖南省常德市

2009《Netkiller Database 手札》,年底拿到C1驾照

2010对电子打击乐产生兴趣, 计划学习爵士鼓

2011 职业生涯路上继续打怪升级

2.1. 联系作者

Mobile: +86 13113668890

Tel: +86 755 2981-2080

Callsign: BG7NYT QTH: Shenzhen, China

注: 请不要问我安装问题!

E-Mail: openunix@163.com

IRC irc.freenode.net #ubuntu / #ubuntu-cn

Yahoo: bg7nyt ICQ: 101888222 AIM: bg7nyt

TM/QQ: 13721218 MSN: netkiller@msn.com

G Talk: 很少开 网易泡泡: 很少开

写给火腿:

欢迎无线电爱好者和我QSO,我的QTH在深圳宝安区龙华镇溪山美地12B7CD,设备YAESUFT-50R,FT-60R,FT-7800 144-430双段机,拉杆天线/GP天线 Nagoya MAG-79EL-3W/Yagi

如果这篇文章对你有所帮助,请寄给我一张QSL卡片,qrz.cn or qrz.com or hamcall.net

Personal Amateur Radiostations of P.R.China

ZONE CQ24 ITU44 ShenZhen, China

Best Regards, VY 73! OP. BG7NYT

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1. Distribution Version

Debian/Ubuntu

http://www.ubuntu.com

Gentoo

http://www.gentoo.org/

Scientific Linux (SL)

http://www.scientificlinux.org/

CentOS

http://www.centos.org/

Debian/Ubuntu适合做实验,快速安装定制,Gentoo适合DIY

如果是企业服务器还是建议使用CentOS, Scientific Linux

上—而

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2. Distribution information

To find your Ubuntu version: lsb_release -a

[root@localhost ~]# lsb_release -a

LSB Version: :core-3.1-ia32:core-3.1-noarch:graphics-3.1-ia32:graphics-3.1-

noarch

Distributor ID: CentOS

Description: CentOS release 5.2 (Final) Release: 5.2

Release: 5.2 Codename: Final

neo@netkiller:~\$ lsb_release -a

No LSB modules are available.

Distributor ID: Ubuntu

Description: Ubuntu 8.04.1 Release: 8.04

Release: 8.04 Codename: hardy

\$ head -n1 /etc/issue
Ubuntu 10.04 LTS \n \l

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3. Linux Installation

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partition

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/	50G
/opt	remainder
swap	memory * 2

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            1.5. /etc/resolv.conf
      2. Network adapter
      3. Ethernet Interfaces
            3.1. ifquery
            3.2. DHCP
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      4. Mask
      5. Gateway
      6. Configuring Name Server Lookups
      7. sysctl
      8. bonding
            8.1. Ubuntu
      9. Finding optimal MTU
13. syslog, klogctl - read and/or clear kernel message ring buffer; set console_loglevel
```

7.1. ext3

```
3. logger
      4. To Log Messages Over UDP Network
14. logrotate - rotates, compresses, and mails system logs
      1. /etc/logrotate.conf
      2. /etc/logrotate.d/
             2.1. apache2
             <u>2.2. mysql</u>
             2.3. cacti
15. remote syslog
      1. syslog-ng
      2. rsyslog
16. Service
      1. update-rc.d - install and remove System-V style init script links
      2. invoke-rc.d - executes System-V style init script actions
      3. runlevel
      4. sysv-rc-conf
      5. xinetd - replacement for inetd with many enhancements
             <u>5.1. tftpd</u>
      6. Scheduled Tasks
             6.1. crontab - maintain crontab files for individual users
             6.2. at, batch, atq, atrm - queue, examine or delete jobs for later execution
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1. /etc/sysconfig/syslog 2. /etc/syslog.conf

3. Linux Installation

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第2章 Kernel

wget -q -c http://www.kernel.org/pub/linux/kernel/v3.0/linux-3.0.1.tar.bz2
tar jxvf linux-3.0.1.tar.bz2

cd linux-3.0.1
make clean
make mrproper
make menuconfig
make
make modules_install
make install

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第3章 System Infomation

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1. Cpu Bit

1. Cpu Bit

neo@netkiller:~\$ uname -a Linux netkiller 2.6.28-15-server #52-Ubuntu SMP Wed Sep 9 11:34:09 UTC 2009 x86_64 GNU/Linux neo@netkiller:~\$ getconf LONG_BIT

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1. shell

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第4章 shutdown

\$ chsh /bin/bash

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第6章 Device information

for SMART Disks

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第6章 Device information

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1. dmesg - print or control the kernel ring buffer

neo@shenzhen:~/doc/Linux/xhtml\$ dmesg

- 2. smartctl Control and Monitor Utility for SMART Disks
- 3. lspci list all PCI devices
- 4. dmidecode DMI table decoder
- <u>5. 鉴别eth(x)</u>
- 6. usb device
- 7. SCSI
- 8. HBA
- 9. kudzu detects and configures new and/or changed hardware on a system
- 1. dmesg print or control the kernel ring buffer

dmesg

2. smartctl - Control and Monitor Utility for SMART Disks 第 6 章 Device information

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2. smartctl - Control and Monitor Utility for SMART Disks

smartctl -i /dev/sda smartctl version 5.38 [x86_64-redhat-linux-gnu] Copyright (C) 2002-8 Bruce Allen Home page is http://smartmontools.sourceforge.net/ === START OF INFORMATION SECTION === Western Digital Caviar Second Generation Serial ATA family Model Family: Device Model: WDC WD1600AAJS-75M0A0 Serial Number: WD-WCAV35616755 Firmware Version: 02.03E02 User Capacity: 160,000,000,000 bytes Device is: In smartctl database [for details use: -P show] ATA Version is: ATA Standard is: Exact ATA specification draft version not indicated Local Time is: Wed May 5 13:05:18 2010 CST SMART support is: Available - device has SMART capability. SMART support is: Enabled

如果 SMART support is: Disabled 使用下面命令启用

smartctl --smart=on --offlineauto=on --saveauto=on /dev/hdb

健康情况

smartctl -H /dev/sda
smartctl version 5.38 [x86_64-redhat-linux-gnu] Copyright (C) 2002-8 Bruce Allen
Home page is http://smartmontools.sourceforge.net/
=== START OF READ SMART DATA SECTION ===
SMART overall-health self-assessment test result: PASSED

PASSED, 这表示硬盘健康状态良好,Failure 最好立刻给服务器更换硬盘

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3. lspci - list all PCI devices

```
$ lspci
00:00.0 Host bridge: Intel Corporation 82945G/GZ/P/PL Memory Controller Hub (rev
02)
00:02.0 VGA compatible controller: Intel Corporation 82945G/GZ Integrated Graphics
Controller (rev 02)
00:1b.0 Audio device: Intel Corporation 82801G (ICH7 Family) High Definition
Audio Controller (rev 01)
00:1c.0 PCI bridge: Intel Corporation 82801G (ICH7 Family) PCI Express Port 1
(rev 01)
00:1c.2 PCI bridge: Intel Corporation 82801G (ICH7 Family) PCI Express Port 3
(rev 01)
00:1c.3 PCI bridge: Intel Corporation 82801G (ICH7 Family) PCI Express Port 4
(rev 01)
00:1d.0 USB Controller: Intel Corporation 82801G (ICH7 Family) USB UHCI
Controller #1 (rev 01)
00:1d.1 USB Controller: Intel Corporation 82801G (ICH7 Family) USB UHCI
Controller #2 (rev 01)
00:1d.2 USB Controller: Intel Corporation 82801G (ICH7 Family) USB UHCI
Controller #3 (rev 01)
00:1d.3 USB Controller: Intel Corporation 82801G (ICH7 Family) USB UHCI
Controller #4 (rev 01)
00:1d.7 USB Controller: Intel Corporation 82801G (ICH7 Family) USB2 EHCI
Controller (rev 01)
00:1e.0 PCI bridge: Intel Corporation 82801 PCI Bridge (rev e1) 00:1f.0 ISA bridge: Intel Corporation 82801GB/GR (ICH7 Family) LPC Interface
Bridge (rev 01)
00:1f.1 IDE interface: Intel Corporation 82801G (ICH7 Family) IDE Controller (rev
01)
00:1f.2 IDE interface: Intel Corporation 82801GB/GR/GH (ICH7 Family) SATA IDE
Controller (rev 01)
00:1f.3 SMBus: Intel Corporation 82801G (ICH7 Family) SMBus Controller (rev 01)
01:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL8111/8168B PCI
Express Gigabit Ethernet controller (rev 02)
04:00.0 Ethernet controller: Realtek Semiconductor Co., Ltd. RTL-8139/8139C/8139C+
(rev 10)
```

```
$ lspci -tv
-[0000:00]-+-00.0 Intel Corporation 82945G/GZ/P/PL Memory Controller Hub
                  Intel Corporation 82945G/GZ Integrated Graphics Controller
           +-02.0
                  Intel Corporation N10/ICH 7 Family High Definition Audio
           +-1b.0
Controller
           +-1c.0-[0000:01]----00.0 Realtek Semiconductor Co., Ltd.
RTL8111/8168B PCI Express Gigabit Ethernet controller
           +-1c.2-[0000:02]--
           +-1c.3-[0000:03]--
                  Intel Corporation N10/ICH7 Family USB UHCI Controller #1
           +-1d.0
           +-1d.1 Intel Corporation N10/ICH 7 Family USB UHCI Controller #2
           +-1d.2 Intel Corporation N10/ICH 7 Family USB UHCI Controller #3
                  Intel Corporation N10/ICH 7 Family USB UHCI Controller #4
                  Intel Corporation N10/ICH 7 Family USB2 EHCI Controller
           +-1d.7
           +-1e.0-[0000:04]----00.0 Realtek Semiconductor Co., Ltd. RTL-
8139/8139C/8139C+
           +-1f.0 Intel Corporation 82801GB/GR (ICH7 Family) LPC Interface
Bridge
           +-1f.1
                   Intel Corporation 82801G (ICH7 Family) IDE Controller
                  Intel Corporation N10/ICH7 Family SATA IDE Controller
           +-1f.2
           \-1f.3 Intel Corporation N10/ICH 7 Family SMBus Controller
```

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2. smartctl - Control and Monitor Utility for SMART Disks

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4. dmidecode - DMI table decoder

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4. dmidecode - DMI table decoder

dmidecode

```
# dmidecode | more
# dmidecode 2.2
SMBIOS 2.4 present.
62 structures occupying 3161 bytes.
Table at 0xCFFBC000.
Handle 0xDA00
        DMI type 218, 11 bytes.
        OEM-specific Type
                Header And Data:
                         DA 0B 00 DA B2 00 17 00 0E 20 00
Handle 0x0000
        DMI type 0, 24 bytes.
        BIOS Information
                 Vendor: Dell Inc.
                 Version: 1.2.0
                 Release Date: 10/18/2006
                 Address: 0xF0000
                 Runtime Size: 64 kB
                 ROM Size: 1024 kB
                 Characteristics:
                          ISA is supported
                         PCI is supported
                         PNP is supported
                         BIOS is upgradeable
                          BIOS shadowing is allowed
                         ESCD support is available
                          Boot from CD is supported
                          Selectable boot is supported
                         EDD is supported
                          Japanese floppy for Toshiba 1.2 MB is supported (int 13h)
                         5.25"/360 KB floppy services are supported (int 13h) 5.25"/1.2 MB floppy services are supported (int 13h)
                          3.5"/720 KB floppy services are supported (int 13h)
                          Print screen service is supported (int 5h)
                          8042 keyboard services are supported (int 9h)
                          Serial services are supported (int 14h)
                          Printer services are supported (int 17h)
                          CGA/mono video services are supported (int 10h)
                          ACPI is supported
                          USB legacy is supported
                          BIOS boot specification is supported
                          Function key-initiated network boot is supported
```

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5. 鉴别eth(x)

5. 鉴别eth(x) 第 6 章 Device information

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5. 鉴别eth(x)

简单的方法:

一个插网线,一个不插,运行 mii-tool 或 ethtool eth0,看状态是否连接

另一种方法是:

tail -f /var/log/messages, 当你向其中一个网口做插拔网线的动作时, 屏幕上会看到提示信息

最好的方法是将mac地址写在启动脚本内.

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6. usb device

lsusb

```
neo@netkiller:~$ lsusb
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 005 Device 002: ID 0dda:0301 Integrated Circuit Solution, Inc. MP3 Player
Bus 005 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 004 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 003 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 002 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
```

```
$ lsusb -tv
/: Bus 05.Port 1: Dev 1, Class=root_hub, Driver=uhci_hcd/2p, 12M
/: Bus 04.Port 1: Dev 1, Class=root_hub, Driver=uhci_hcd/2p, 12M
/: Bus 03.Port 1: Dev 1, Class=root_hub, Driver=uhci_hcd/2p, 12M
/: Bus 02.Port 1: Dev 1, Class=root_hub, Driver=uhci_hcd/2p, 12M
/: Bus 01.Port 1: Dev 1, Class=root_hub, Driver=uhci_hcd/8p, 480M
```

```
$ sudo lsusb -v
Bus 005 Device 001: ID 0000:0000
Device Descriptor:
 bLength
                         18
  bDescriptorType
                         1
                       2.00
 bcdUSB
                        9 Hub
 bDeviceClass
  bDeviceSubClass
                         0 Unused
                         1 Single TT
 bDeviceProtocol
 bMaxPacketSize0
                        64
  idVendor
                    0x0000
                   0x0000
 idProduct
 bcdDevice
                      2.06
  iManufacturer
                        3 Linux 2.6.24-22-generic ehci_hcd
                         2 EHCI Host Controller
  iProduct
                         1 0000:00:1d.7
  iSerial
  bNumConfigurations
                         1
  Configuration Descriptor:
    bLength
                            9
    bDescriptorType
    wTotalLength
                           25
    bNumInterfaces
    bConfigurationValue
                           1
    iConfiguration
                            Λ
    bmAttributes
                        0xe0
      Self Powered
      Remote Wakeup
    MaxPower
    Interface Descriptor:
      bLength
                              9
      bDescriptorType
      bInterfaceNumber
                             0
      bAlternateSetting
                             0
      bNumEndpoints
      bInterfaceClass
                             9 Hub
      bInterfaceSubClass
                             0 Unused
      bInterfaceProtocol
                             0 Full speed (or root) hub
      iInterface
      Endpoint Descriptor:
                               7
       bLength
        bDescriptorType
                               5
        bEndpointAddress
                             0x81
                                  EP 1 IN
        bmAttributes
                             3
          Transfer Type
                                   Interrupt
          Synch Type
                                  None
```

```
Usage Type
        wMaxPacketSize 0x0004 1x 4 bytes
        bInterval
                               12
Hub Descriptor:
                       11
 bLength
 bDescriptorType
                       41
 nNbrPorts
  wHubCharacteristic 0x000a
    No power switching (usb 1.0)
    Per-port overcurrent protection
    TT think time 8 FS bits
                   10 * 2 milli seconds
0 milli Ampere
 bPwrOn2PwrGood
  bHubContrCurrent
                    0x00 0x00
 DeviceRemovable
 PortPwrCtrlMask 0xff 0xff
 Hub Port Status:
  Port 1: 0000.0100 power
   Port 2: 0000.0100 power
   Port 3: 0000.0100 power
   Port 4: 0000.0100 power
   Port 5: 0000.0100 power
   Port 6: 0000.0100 power
Port 7: 0000.0100 power
   Port 8: 0000.0100 power
Device Status:
                  0x0003
  Self Powered
  Remote Wakeup Enabled
Bus 004 Device 001: ID 0000:0000
Device Descriptor:
 bLength
                         18
 bDescriptorType
                          1
                       1.10
 bcdUSB
                         9 Hub
0 Unused
 bDeviceClass
 bDeviceSubClass
                         0 Full speed (or root) hub
 bDeviceProtocol
 bMaxPacketSize0
                        64
                    0x0000
  idVendor
 idProduct
                    0x0000
 bcdDevice
                      2.06
  iManufacturer
                          3 Linux 2.6.24-22-generic uhci_hcd
                         2 UHCI Host Controller
 iProduct
                       1 0000:00:1d.3
  iSerial
  bNumConfigurations
  Configuration Descriptor:
                            9
    bLength
    bDescriptorType
    wTotalLength
    bNumInterfaces
                            1
    bConfigurationValue
                            1
    iConfiguration
                            0
    bmAttributes
                        0xe0
      Self Powered
      Remote Wakeup
    MaxPower
                            0mA
    Interface Descriptor:
      bLength
      bDescriptorType
                              4
      bInterfaceNumber
                              0
      bAlternateSetting
                              0
      bNumEndpoints
                              1
      bInterfaceClass
                              9 Hub
                             0 Unused
      bInterfaceSubClass
      bInterfaceProtocol
                             0 Full speed (or root) hub
      iInterface
      Endpoint Descriptor:
        bLength
                                7
        bDescriptorType
                                5
        bEndpointAddress
                             0x81
                                   EP 1 IN
        bmAttributes
                              3
          Transfer Type
                                    Interrupt
          Synch Type
                                    None
          Usage Type
                                   Data
        wMaxPacketSize
                          0x0002 1x 2 bytes
        bInterval
                              255
Hub Descriptor:
                        9
 bLength
 bDescriptorType
                       41
 nNbrPorts
  wHubCharacteristic 0x000a
    No power switching (usb 1.0)
    Per-port overcurrent protection
 bPwrOn2PwrGood 1 * 2 milli seconds
bHubContrCurrent 0 milli Ampere
```

```
DeviceRemovable 0x00
 PortPwrCtrlMask 0xff
 Hub Port Status:
   Port 1: 0000.0100 power
   Port 2: 0000.0100 power
                   0 \times 0003
Device Status:
  Self Powered
  Remote Wakeup Enabled
Bus 003 Device 001: ID 0000:0000
Device Descriptor:
                          18
 bLength
  bDescriptorType
                           1
 bcdUSB
                      1.10
 ocqusB
bDeviceClass
                        9 Hub
0 Unused
0 Full speed (or root) hub
  bDeviceSubClass
 bDeviceProtocol
                     64
 bMaxPacketSize0
                    0x0000
  idVendor
                    0x0000
 idProduct
                      2.06
 bcdDevice
                        3 Linux 2.6.24-22-generic uhci_hcd
  iManufacturer
 iProduct
                          2 UHCI Host Controller
  iSerial 1 0000:00:1d.2 bNumConfigurations 1
  Configuration Descriptor:
                           9
    bLength
    bDescriptorType
    wTotalLength
                             1
    bNumInterfaces
    bConfigurationValue
    iConfiguration
                             0
    bmAttributes
                        0xe0
      Self Powered
      Remote Wakeup
    MaxPower
                             0mA
    Interface Descriptor:
      bLength
      bDescriptorType
                              4
      bInterfaceNumber
                              0
      bAlternateSetting
                              0
      bNumEndpoints
                              1
      bInterfaceClass 9 Hub
bInterfaceSubClass 0 Unused
bInterfaceProtocol 0 Full speed (or root) hub
      bInterfaceClass
                              9 Hub
      iInterface
      Endpoint Descriptor:
                          7
5
0x81 EP 1 IN
                                7
        bLength
        bDescriptorType
        bEndpointAddress
        bmAttributes
Transfer Type
                             3
                                    Interrupt
          Synch Type
                                    None
          Usage Type
                                    Data
        wMaxPacketSize 0x0002 1x 2 bytes
        bInterval
                              255
Hub Descriptor:
                        9
 bLength
  bDescriptorType
                        41
 nNbrPorts
  wHubCharacteristic 0x000a
    No power switching (usb 1.0)
    Per-port overcurrent protection
                    1 * 2 milli seconds
0 milli Ampere
 bPwr0n2PwrGood
  bHubContrCurrent
                    0x00
 DeviceRemovable
 PortPwrCtrlMask
                    0xff
 Hub Port Status:
   Port 1: 0000.0100 power
   Port 2: 0000.0100 power
Device Status:
                   0 \times 0003
 Self Powered
  Remote Wakeup Enabled
Bus 002 Device 001: ID 0000:0000
Device Descriptor:
 bLength
                          18
 bDescriptorType
                          1
 bcdUSB
                      1.10
                      9 Hub
0 Unused
 bDeviceClass
 bDeviceSubClass
  bDeviceFroces:
bMaxPacketSize0 64
0x0000
                         0 Full speed (or root) hub
```

```
idProduct 0x0000 bcdDevice 2.06
  bcdDevice
iManufacturer
                             3 Linux 2.6.24-22-generic uhci_hcd
                              2 UHCI Host Controller
  i Product
  bNumConfigurations 1
Configuration
  Configuration Descriptor:
                              9
    bLength
    bDescriptorType
    wTotalLength
    bNumInterfaces
    bConfigurationValue
    bConfiguration U
iConfiguration 0xe0
      Self Powered
       Remote Wakeup
    MaxPower
    Interface Descriptor:
       bLength
                                 9
       bDescriptorType
       bInterfaceNumber
                                 0
       bAlternateSetting
                                 0
      bNumEndpoints 1
bInterfaceClass 9 Hub
bInterfaceSubClass 0 Unused
bInterfaceProtocol 0 Full speed (or root) hub
        pendpointAddress 0x81 EP 1 IN bmAttributes 3
Transfer Type Interrus Synch Type Usage Type wMaxPackets:
blr+
       iInterface
                                 0
       Endpoint Descriptor:
        bLength
                                        Interrupt
         wMaxPacketSize 0x0002 1x 2 bytes bInterval 255
Hub Descriptor:
                           9
  bLength
                          41
  bDescriptorType
                           2.
  nNbrPorts
  wHubCharacteristic 0x000a
    No power switching (usb 1.0)
    Per-port overcurrent protection
  bPwrOn2PwrGood 1 * 2 milli seconds
                          0 milli Ampere
  bHubContrCurrent
                     0x00
  DeviceRemovable
  PortPwrCtrlMask
                      0xff
 Hub Port Status:
   Port 1: 0000.0100 power
   Port 2: 0000.0100 power
Device Status:
                    0 \times 0003
  Self Powered
  Remote Wakeup Enabled
Bus 001 Device 001: ID 0000:0000
Device Descriptor:
  bLength
                            18
  bDescriptorType
                             1
                        1.10
  bcdUSB
                        9 Hub
0 Unused
0 Full speed (or root) hub
  bDeviceClass
 bDeviceSubClass
bDeviceProtocol 0
bMaxPacketSize0 64
                            64
  idProduct
bcdDevice     2.06
iManufacturer     3
2
                      0x0000
  idProduct
  bcdDevice
                         3 Linux 2.6.24-22-generic uhci_hcd
2 UHCI Host Controller
  iProduct
  bNumConfigurations 1
  Configuration Descriptor:
                               9
    bLength
    bDescriptorType
                               2
    wTotalLength
    bNumInterfaces
                               1
    bConfigurationValue
    iConfiguration 0xe0
                               1
       Self Powered
       Remote Wakeup
    MaxPower
                               0mA
    Interface Descriptor:
      bLength
```

```
bDescriptorType
                         0
      bInterfaceNumber
      bAlternateSetting
                              0
      bNumEndpoints
                              1
      bInterfaceClass
                             9 Hub
                            0 Unused
0 Full speed (or root) hub
      bInterfaceSubClass
      bInterfaceProtocol
      iInterface
      Endpoint Descriptor:
                               7
       bLength
                             5
        bendpointAddress 0x81
                                  EP 1 IN
                            3
        bmAttributes
         Transfer Type
                                   Interrupt
         Synch Type
Usage Type
                                   None
                                   Data
        wMaxPacketSize 0x0002 1x 2 bytes
        bInterval
                             255
Hub Descriptor:
 bLength
                       9
 bDescriptorType
                       41
  nNbrPorts
 wHubCharacteristic 0x000a
   No power switching (usb 1.0)
    Per-port overcurrent protection
 bPwrOn2PwrGood 1 * 2 milli seconds
bHubContrCurrent 0 milli Ampere
                    0x00
 DeviceRemovable
 PortPwrCtrlMask
                    0xff
 Hub Port Status:
   Port 1: 0000.0100 power
  Port 2: 0000.0100 power
Device Status:
                  0x0003
 Self Powered
  Remote Wakeup Enabled
```

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5. 鉴别eth(x)

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7. SCSI

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7. SCSI

cat /proc/scsi/scsi

Attached devices:

Host: scsi0 Channel: 02 Id: 00 Lun: 00

Vendor:DELLModel:PERC H700Rev:2.10Type:Direct-AccessANSI SCSI revision:05

Host: scsi0 Channel: 02 Id: 01 Lun: 00

Vendor: DELL Model: PERC H700 Rev: 2.10

Type: Direct-Access ANSI SCSI revision: 05

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 8. HBA

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8. HBA

```
# dmesg | grep QLogic
QLogic Fibre Channel HBA Driver: 8.03.01.05.06.0-k8
 QLogic Fibre Channel HBA Driver: 8.03.01.05.06.0-k8
  QLogic QLE2562 - PCI-Express Dual Channel 8Gb Fibre Channel HBA
 QLogic Fibre Channel HBA Driver: 8.03.01.05.06.0-k8
  QLogic QLE2562 - PCI-Express Dual Channel 8Gb Fibre Channel HBA
# dmesg | grep qla
qla2xxx 0000:04:00.0: PCI INT A -> GSI 38 (level, low) -> IRQ 38
qla2xxx 0000:04:00.0: Found an ISP2532, irq 38, iobase 0xffffc90016e76000
qla2xxx 0000:04:00.0: irq 61 for MSI/MSI-X
qla2xxx 0000:04:00.0: irq 62 for MSI/MSI-X
qla2xxx 0000:04:00.0: Configuring PCI space...
qla2xxx 0000:04:00.0: setting latency timer to 64
qla2xxx 0000:04:00.0: Configure NVRAM parameters...
qla2xxx 0000:04:00.0: Verifying loaded RISC code...
qla2xxx 0000:04:00.0: firmware: requesting ql2500_fw.bin
qla2xxx 0000:04:00.0: FW: Loading via request-firmware...
qla2xxx 0000:04:00.0: Allocated (64 KB) for FCE...
qla2xxx 0000:04:00.0: Allocated (64 KB) for EFT... qla2xxx 0000:04:00.0: Allocated (1350 KB) for firmware dump...
qla2xxx 0000:04:00.0: Unable to read FCP priority data.
scsi0 : qla2xxx
qla2xxx 0000:04:00.0:
qla2xxx 0000:04:00.1: PCI INT B -> GSI 45 (level, low) -> IRQ 45
qla2xxx 0000:04:00.1: Found an ISP2532, irq 45, iobase 0xffffc90016e06000 qla2xxx 0000:04:00.1: irq 63 for MSI/MSI-X
qla2xxx 0000:04:00.1: irq 64 for MSI/MSI-X
qla2xxx 0000:04:00.1: Configuring PCI space... qla2xxx 0000:04:00.1: setting latency timer to 64
qla2xxx 0000:04:00.1: Configure NVRAM parameters...
qla2xxx 0000:04:00.1: Verifying loaded RISC code... qla2xxx 0000:04:00.1: FW: Loading via request-firmware...
qla2xxx 0000:04:00.1: Allocated (64 KB) for FCE...
qla2xxx 0000:04:00.1: Allocated (64 KB) for EFT... qla2xxx 0000:04:00.1: Allocated (1350 KB) for firmware dump...
qla2xxx 0000:04:00.1: Unable to read FCP priority data.
scsil : qla2xxx
qla2xxx 0000:04:00.1:
qla2xxx 0000:04:00.0: LIP reset occurred (f700).
qla2xxx 0000:04:00.1: LIP reset occurred (f700).
qla2xxx 0000:04:00.0: LOOP UP detected (8 Gbps).
qla2xxx 0000:04:00.1: LOOP UP detected (8 Gbps).
```

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9. kudzu - detects and configures new and/or changed hardware on a system

9. kudzu - detects and configures new and/or changed hardware on a system 上一页 第6章 Device information 下一页

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9. kudzu - detects and configures new and/or changed hardware on a system



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第7章 Locale

目录

1. time zone

2. to change system date/time

2.1. NTP Server

3. Language

1. time zone

选择用户时区

\$ tzselect

Please identify a location so that time zone rules can be set correctly. Please select a continent or ocean.

- 1) Africa
- 2) Americas
- 3) Antarctica
- 4) Arctic Ocean
- 5) Asia
- 6) Atlantic Ocean
- 7) Australia
- 8) Europe
- 9) Indian Ocean
- 10) Pacific Ocean
- 11) none I want to specify the time zone using the Posix TZ format. #?

tzconfig

netkiller@shenzhen:~\$ tzconfig
Your current time zone is set to US/Eastern
Do you want to change that? [n]: y

Please enter the number of the geographic area in which you live:

1) Africa

7) Australia

2) America

8) Europe

3) US time zones

9) Indian Ocean

4) Canada time zones

10) Pacific Ocean

5) Asia

11) Use System V style time zones

6) Atlantic Ocean

12) None of the above

Then you will be shown a list of cities which represent the time zone in which they are located. You should choose a city in your time zone.

Number: 5

Aden Almaty Amman Anadyr Aqtau Aqtobe Ashgabat Ashkhabad Baghdad Bahrain Baku Bangkok Beirut Bishkek Brunei Calcutta Choibalsan Chongqing Chungking Colombo Dacca Damascus Dhaka Dili Dubai Dushanbe Gaza Harbin Hong_Kong Hovd Irkutsk Istanbul Jakarta Jayapura Jerusalem Kabul Kamchatka Karachi Kashgar Katmandu Krasnoyarsk Kuala_Lumpur Kuching Kuwait Macao Macau Magadan Makassar Manila Muscat Nicosia Novosibirsk Omsk Oral Phnom_Penh Pontianak Pyongyang Qatar Qyzylorda Rangoon Riyadh Riyadh87 Riyadh88

Riyadh89 Saigon Sakhalin Samarkand Seoul Shanghai Singapore Taipei Tashkent Tbilisi Tehran Tel_Aviv Thimbu Thimphu Tokyo Ujung_Pandang Ulaanbaatar Ulan_Bator Urumqi Vientiane Vladivostok Yakutsk Yekaterinburg Yerevan

Please enter the name of one of these cities or zones You just need to type enough letters to resolve ambiguities Press Enter to view all of them again

Name: [] Harbin

Your default time zone is set to 'Asia/Harbin'.

Local time is now: Tue Mar 11 10:46:46 CST 2008. Universal Time is now: Tue Mar 11 02:46:46 UTC 2008.

tzdata

dpkg-reconfigure tzdata

\$ sudo dpkg-reconfigure tzdata

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9. kudzu - detects and configures new and/or changed hardware on a system

起始页 2. to change system date/time

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2. to change system date/time

date

e.g. date -s month/day/year

date -s 1/18/2008

time

e.g. date -s hour:minute:second

date -s 11:12:00

writing CMOS

clock -w

2.1. NTP Server

更新网络时间

ntpdate - client for setting system time from NTP servers

```
$ sudo ntpdate asia.pool.ntp.org
21 May 10:34:18 ntpdate[6687]: adjust time server 203.185.69.60 offset 0.031079
sec
$ sudo hwclock -w
```

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3. Language

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3. Language

默认语言

export LANG=en_US export LC_ALL=en_US

永久更改

sudo vi /etc/default/locale LANG="en_US.UTF-8" LANGUAGE="en_US:en"

改为中文环境

sudo apt-get install language-support-zh LANG="zh_CN.UTF-8" LANGUAGE="zh_CN:zh"

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2. to change system date/time

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第8章 console / terminal

目录

- 1. serial console
- 2. console timeout
- 3. TUI (Text User Interface)
- 4. framebuffer

1. serial console

gurb

```
$ sudo vim /boot/grub/menu.lst
title
                Ubuntu 8.04.1, kernel 2.6.24-21-generic
root
                (hd0,5)
                /boot/vmlinuz-2.6.24-21-generic root=UUID=3d5dd6c0-bbd2-4ddf-
9b71-1c7b78e8de3b ro quiet splash
console=tty0 console=ttyS0,38400
               /boot/initrd.img-2.6.24-21-generic
initrd
quiet
```

tty6

```
$ sudo vim /etc/event.d/tty6
respawn
#exec /sbin/getty 38400 tty6
exec /sbin/getty -L /dev/ttyS0 38400 vt100
```

other terminal: VT100, VT220, VT320, VT420

securetty

```
$ cat /etc/securetty
# for people with serial port consoles
ttyS0
```

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2. console timeout

查看当前的\$TMOUT环境变量设置

echo \$TMOUT

TMOUT=3600

export TMOUT

netkiller@Linux-server:~\$ sudo dpkg-reconfigure en_US.UTF-8

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3. TUI (Text User Interface)

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3. TUI (Text User Interface)

SVGATextMode

\$ sudo apt-get install svgatextmode
\$ SVGATextMode 80x25x9

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2. console timeout

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4. framebuffer

4. framebuffer 第8章 console / terminal

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4. framebuffer

在grub.conf中的kernel行后面写上vga=0x317就行了,也可以用vga=ask,让系统启动的时候询问你用多大的分辨率

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3. TUI (Text User Interface)

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第9章 Harddisk

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1. 查看分区分区 UUID

2. Label

2.1. Ext2

2.1.1. <u>查看卷标</u> 2.1.2. 更改卷标

- 3. 临时增加 swap 分区
- 4. Show partition
- 5. Create partition
- 6. Clone partition
- 7. Format partition

7.1. ext3

7.2. ReiserFS

8. estimate disk / directory / file space usage

9. Convert from ext3 to ext4 File system

10. GPT

10.1. 查看分区

10.2. 创建分区

10.3. 退出

10.4. mount

11. loop devices

11.1. losetup - set up and control loop devices

主分区最多4个

逻辑分区:

•

- SCSI 最多 16 个
- IDE 最多 63 个

1. 查看分区分区 UUID

```
$ blkid

/dev/sda1: UUID="a457213b-e72d-4c9c-953d-b438ec554d3c" SEC_TYPE="ext2" TYPE="ext3"

/dev/sda5: UUID="cc2c1be9-a6e0-4494-a5f0-76b39d3fc1f0" TYPE="swap"

/dev/sda6: UUID="3c9a1484-1295-4fb9-9c94-f9c69ae7e770" TYPE="ext3"

/dev/sda7: UUID="ade7b5e7-a311-45de-9b24-e16be73de715" TYPE="swap"

$ 1s -1 /dev/disk/by-uuid

total 0

lrwxrwxrwx 1 root root 10 2009-07-11 00:52 3c9a1484-1295-4fb9-9c94-f9c69ae7e770 -

> ../../sda6

lrwxrwxrwx 1 root root 10 2009-07-11 00:52 a457213b-e72d-4c9c-953d-b438ec554d3c -

> ../../sda1

lrwxrwxrwx 1 root root 10 2009-07-11 00:52 ade7b5e7-a311-45de-9b24-e16be73de715 -

> ../../sda7

lrwxrwxrwx 1 root root 10 2009-07-11 00:52 cc2c1be9-a6e0-4494-a5f0-76b39d3fc1f0 -
```

> ../../sda5

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<u>下一页</u> 2. Label

4. framebuffer

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2. Label

2.1. Ext2

e2label - Change the label on an ext2/ext3 filesystem

2.1.1. 查看卷标

```
# e2label /dev/sda1
/boot
```

2.1.2. 更改卷标

```
# man e2label
# e2label /dev/sda5 /www
# e2label /dev/sda5
/www
```

测试

mount /app

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3. 临时增加 swap 分区

dd if=/dev/zero of=/root/swap0 bs=1M count=2048
mkswap /root/swap0
swapon /root/swap0

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4. Show partition

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4. Show partition

show all of disk and partition

neo@master:~\$ sudo sfdisk -s

/dev/sda: 8388608 /dev/sdb: 2097152 total: 10485760 blocks

or

neo@master:~\$ sudo fdisk -1

Disk /dev/sda: 8589 MB, 8589934592 bytes 255 heads, 63 sectors/track, 1044 cylinders Units = cylinders of 16065 * 512 = 8225280 bytes

Disk identifier: 0x000301bd

Id System Device Boot End Blocks 993 7976241 83 Linux /dev/sda1 * /dev/sda2 994 1044 409657+

5 Extended 82 Linux swap / Solaris /dev/sda5 994 1044 409626

Disk /dev/sdb: 2147 MB, 2147483648 bytes 255 heads, 63 sectors/track, 261 cylinders Units = cylinders of 16065 * 512 = 8225280 bytes

Disk identifier: 0x00000000

Disk /dev/sdb doesn't contain a valid partition table

neo@master:~\$

show partition /dev/sda

neo@master:~\$ sudo fdisk -l /dev/sda

Disk /dev/sda: 8589 MB, 8589934592 bytes 255 heads, 63 sectors/track, 1044 cylinders Units = cylinders of 16065 * 512 = 8225280 bytes

Disk identifier: 0x000301bd

Device Boot End Blocks Id System Start 1 7976241 83 Linux 5 Extended /dev/sda1 * 993 /dev/sda2 994 1044 409657+ 82 Linux swap / Solaris /dev/sda5 994 1044 409626

neo@master:~\$

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5. Create partition

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5. Create partition

```
$ sudo cfdisk /dev/sdb
```

```
Command (m for help): p
Disk /dev/sda: 146.1 GB, 146163105792 bytes
255 heads, 63 sectors/track, 17769 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
                                                          Id System
83 Linux
83 Linux
                                                Blocks
   Device Boot
                       Start
                                      End
/dev/sda1 *
                                                  200781
                           1
                                       25
                                     3849
/dev/sda2
                          26
                                              30716280
/dev/sda3
                        3850
                                   17769
                                            111812400
                                                          83 Linux
Command (m for help): d
Partition number (1-4): 3
Command (m for help): n
Command action
  e extended
       primary partition (1-4)
р
Partition number (1-4): 3
First cylinder (3850-17769, default 3850):
Using default value 3850
Last cylinder or +size or +sizeM or +sizeK (3850-17769, default 17769): +32000M
Command (m for help): p
Disk /dev/sda: 146.1 GB, 146163105792 bytes
255 heads, 63 sectors/track, 17769 cylinders
Units = cylinders of 16065 * 512 = 8225280 bytes
   Device Boot
                       Start
                                       End
                                                 Blocks
                                                           Id System
                                                            83 Linux
83 Linux
/dev/sda1 *
                                                  200781
                                       25
                           1
/dev/sda2
                          26
                                      3849
                                               30716280
                                                            83
/dev/sda3
                                      7740
                                               31254457+ 83 Linux
                        3850
```

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6. Clone partition

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6. Clone partition

/dev/sda 克隆到 /dev/sdb

\$ sudo dd if=/dev/sda of=/dev/sdb

备份 mbr 主引导记录

\$ dd if=/dev/sda of=/root/disk.mbr bs=512 count=1

\$ dd if=/root/disk.mbr of=/dev/sda bs=512 count=1

软盘镜像

 $\ dd \ if=/dev/fd0 \ of=floppy.img \ bs=1440k$

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7. Format partition

format /dev/sdb1

7.1. ext3

neo@master:~\$ sudo mkfs.ext3 /dev/sdb1

7.2. ReiserFS

you also can using other file system

reiserfs

neo@master:~\$ sudo mkfs.reiserfs /dev/sdb1

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6. Clone partition

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8. estimate disk / directory / file space usage

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8. estimate disk / directory / file space usage

total for a directory



7. Format partition

9. Convert from ext3 to ext4 File system

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9. Convert from ext3 to ext4 File system

step 1

```
$ sudo tune2fs -0 extents,uninit_bg,dir_index /dev/sda7
tune2fs 1.41.4 (27-Jan-2009)
Please run e2fsck on the filesystem.
```

step 2

```
$ sudo e2fsck -fD /dev/sda7
e2fsck 1.41.4 (27-Jan-2009)
/dev/sda7 is mounted.
WARNING!!! Running e2fsck on a mounted filesystem may cause
SEVERE filesystem damage.
Do you really want to continue (y/n)? yes
/dev/sda7: recovering journal
Pass 1: Checking inodes, blocks, and sizes
Pass 2: Checking directory structure
Pass 3: Checking directory connectivity
Pass 3A: Optimizing directories
Pass 4: Checking reference counts
Pass 5: Checking group summary information
Block bitmap differences: -3913734 +3925302
Fix<y>? yes
/dev/sda7: **** FILE SYSTEM WAS MODIFIED *****
/dev/sda7: 77282/2293760 files (15.7% non-contiguous), 4584313/9163066 blocks
```

step 3

```
$ sudo cp /etc/fstab /etc/fstab.old
$ sudo vim /etc/fstab
# /dev/sda7
UUID=16089544-6fbf-400e-a63a-fa6159e271e5 /home ext4
relatime,errors=remount-ro 0 1
```

step 4

\$ sudo reboot



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10. GPT

```
$ sudo parted /dev/sda

GNU Parted 2.3

Using /dev/sda

Welcome to GNU Parted! Type 'help' to view a list of commands.

(parted)
```

10.1. 查看分区

```
(parted) print
Model: DELL PERC 6/i (scsi)
Disk /dev/sda: 2498GB
Sector size (logical/physical): 512B/512B
Partition Table: gpt
                         Size
Number Start
                                  File system
                                                              Flags
                 End
                                                    Name
1
        1049kB 50.0GB 50.0GB ext4
                                                              boot
        50.0GB 66.0GB 16.0GB linux-swap(v1)
66.0GB 2498GB 2432GB ext4
 2
 3
                                                    /backup
```

空闲空间

```
(parted) print free
Model: DELL PERC 6/i (scsi)
Disk /dev/sda: 2498GB
Sector size (logical/physical): 512B/512B
Partition Table: gpt
Number Start
               End
                        Size
                                 File system
                                                  Name
                                                            Flags
        17.4kB
                1049kB
                         1031kB Free Space
        1049kB 50.0GB 50.0GB ext4
                                                            boot
2
        50.0GB 66.0GB 16.0GB linux-swap(v1)
        66.0GB 2498GB 2432GB ext4
2498GB 2498GB 1032kB Free Space
3
                                                   /backup
```

10.2. 创建分区

```
(parted) mkpart
Partition name? []? /www
File system type? [ext2]?
Start? 10GB
End? 50GB
```

例 9.1. GPT Example

```
(parted) print devices
/dev/sdb (9999GB)
/dev/sda (2498GB)

(parted) select /dev/sdb
Using /dev/sdb

(parted) mklabel gpt
Warning: The existing disk label on /dev/sdb will be destroyed and all data on this disk will be
lost. Do you want to continue?
Yes/No? yes
```

```
(parted) mkpart
Partition name? []? /md1200
File system type? [ext2]? ext4
Start? OGB
End? 9999GB
(parted) print list
Model: DELL PERC H800 (scsi)
Disk /dev/sdb: 9999GB
Sector size (logical/physical): 512B/512B
Partition Table: gpt
                        Size
Number Start End
                                 File system Name
                                                        Flags
        1049kB 9999GB 9999GB
                                              /md1200
Model: DELL PERC 6/i (scsi)
Disk /dev/sda: 2498GB
Sector size (logical/physical): 512B/512B
Partition Table: gpt
Number Start
                End
                         Size
                                 File system
                                                  Name
                                                           Flags
        1049kB 50.0GB 50.0GB ext4
                                                           boot
        50.0GB 66.0GB 16.0GB linux-swap(v1)
66.0GB 2498GB 2432GB ext4
 2.
                                                  /backup
(parted)
```

10.3. 退出

```
(parted) quit
```

10.4. mount

```
neo@backup:~$ sudo blkid
[sudo] password for neo:
/dev/sda1: UUID="2fc411ec-9f6e-4e04-9270-11d23a9b0668" TYPE="ext4"
/dev/sda2: UUID="f5175b7a-4c87-471c-ab9f-9d601bc5e6e2" TYPE="swap"
/dev/sda3: UUID="3217bdd9-1beb-494a-a428-8d1c09eaa1af" TYPE="ext4"

neo@backup:~$ sudo vim /etc/fstab
UUID=3217bdd9-1beb-494a-a428-8d1c09eaa1af /backup ext4 errors=remount-ro 0
1
```

上一页 9. Convert from ext3 to ext4 File system 上一级 起始页 11. loop devices

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11. loop devices

If you are using the loadable module you must have the module loaded first with the command:

```
$ sudo modprobe loop
```

The following commands can be used as an example of using the loop device.

```
$ dd if=/dev/zero of=file bs=1k count=100
100+0 records in
100+0 records out
102400 bytes (102 kB) copied, 0.00126554 s, 80.9 MB/s
$ sudo losetup /dev/loop0 file
$ sudo mkfs.ext3 /dev/loop0
mke2fs 1.40.8 (13-Mar-2008)
Filesystem label=
OS type: Linux
Block size=1024 (log=0)
Fragment size=1024 (log=0)
16 inodes, 100 blocks
5 blocks (5.00%) reserved for the super user
First data block=1
1 block group
8192 blocks per group, 8192 fragments per group
16 inodes per group
Writing inode tables: done
Filesystem too small for a journal
Writing superblocks and filesystem accounting information: done
This filesystem will be automatically checked every 24 mounts or
180 days, whichever comes first. Use tune2fs -c or -i to override.
```

mount loop device

```
$ sudo mkdir /mnt/loop
$ sudo mount /dev/loop0 /mnt/loop
```

Now! you can using it as harddisk.

umount loop device

```
$ sudo umount /mnt/loop/
$ sudo losetup -d /dev/loop0
```

Maybe also encryption modules are needed.

```
$ sudo modprobe cryptoloop
$ sudo modprobe des
```

enable data encryption

```
$ dd if=/dev/zero of=encryption_file bs=1k count=100
100+0 records in
100+0 records out
```

```
102400 bytes (102 kB) copied, 0.00130537 s, 78.4 MB/s
$ sudo losetup -e des /dev/loop0 encryption_file
```

If you are using the loadable module you may remove the module with the command

```
$ sudo rmmod loop des cryptoloop
```

11.1. losetup - set up and control loop devices

EXAMPLE

```
If you are using the loadable module you must have the module loaded first
with the command
               # insmod loop.o
       Maybe also encryption modules are needed.
               # insmod des.o # insmod cryptoloop.o
       The following commands can be used as an example of using the loop device.
               # dd if=/dev/zero of=/file bs=1k count=100
               # losetup -e des /dev/loop0 /file
               Password:
               Init (up to 16 hex digits):
               # mkfs -t ext2 /dev/loop0 100
# mount -t ext2 /dev/loop0 /mnt
               # umount /dev/loop0
# losetup -d /dev/loop0
       If you are using the loadable module you may remove the module with the
command
               # rmmod loop
```

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10. GPT

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第 10 章 Removable Storage

目录

1. usb flash 2. CD / DVD

2.1. Mount an ISO file

2.2. create iso file from CD

2.3. burner

2.4. ISO Mirror

eject - eject removable media

\$ eject

1. usb flash

mount NTFS filesystem

 $\verb|sudo| mount -t ntfs-3g /dev/sdb1 /mnt/usbflash/ -o force|\\$

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11. loop devices

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2. CD / DVD

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2. CD / DVD

2.1. Mount an ISO file

To mount the ISO image file.iso to the mount point /media/cdrom use this:

```
$ mount -o loop -t iso9660 file.iso /media/cdrom
```

2.2. create iso file from CD

```
$ dd if=/dev/cdrom of=isofile.iso
```

2.3. burner

2.4. ISO Mirror

```
$ mkisofs -V LABEL -r /mnt/cdrom | gzip > cdrom.iso.gz
```

mount iso file

```
$ mount -t iso9660 -o loop cdrom.iso /mnt/cdrom
```

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第11章 File System

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第11章 File System

目录

- 1. Mount partition
 - 1.1. Mount
 - 1.2. Umount
 - 1.3. bind directory
 - 1.4. /etc/fstab
- 2. RAM FS
- 3. tmpfs
- 4. ftp fs
- 5. SSHFS (sshfs filesystem client based on SSH File Transfer Protocol)

1. Mount partition

1.1. Mount

sudo mount /dev/sdb1 /mnt/mount1

支持UTF-8

mount -o iocharset=utf8 /dev/sda5 /mnt/usb

1.2. Umount

umount - unmount file systems

sudo umount /mnt/mount1

1.3. bind directory

mount --bind /foo /home/neo/foo

挂载目录将不能被删除, 但目录下文件可以删除

rm -rf /home/neo/foo
rm: cannot remove directory '/home/neo/foo': Device or resource busy

/etc/fstab

/foo /home/neo/foo none bind 0 0

1.4. /etc/fstab

<file system> <mount point> <type> <options> <dump> <pass>

mount point

该字段描述希望的文件系统加载的目录,对于swap设备,该字段为none

file system

例如/dev/cdrom或/dev/sdb,除了使用设备名,你可以使用设备的UUID或设备的卷标签,例如,LABAL=root 或 UUID=7f91104e-8187-4ccf-8215-6e2e641f32e3

type

定义了该设备上的文件系统,系统可用文件系统

```
$ cat /proc/filesystems
       sysfs
nodev
nodev
        rootfs
nodev
      bdev
      proc
nodev
nodev
        cgroup
nodev
       cpuset
nodev
      tmpfs
nodev
       devtmpfs
nodev debugfs
nodev securityfs
nodev
       sockfs
nodev pipefs
nodev anon_inodefs
nodev
        inotifyfs
      devpts
nodev
        ext3
        ext2
        ext4
nodev
        ramfs
        hugetlbfs
nodev
        ecryptfs
nodev
nodev
        fuse
        fuseblk
nodev
       fusectl
nodev
       mqueue
nodev
       rpc_pipefs
nodev
       nfs
nodev
       nfs4
        reiserfs
        xfs
        jfs
        msdos
        vfat.
        ntfs
        minix
        hfs
        hfsplus
        qnx4
        ufs
        btrfs
        iso9660
```

options

```
选项 含义
ro 以只读模式加载该文件系统
sync 不对该设备的写操作进行缓冲处理,这可以防止在非正常关机时情况下破坏文件系统,但是却降低了计算机速度
user 允许普通用户加载该文件系统
quota 强制在该文件系统上进行磁盘定额限制
noauto 不再使用mount -a命令 (例如系统启动时) 加载该文件系统
noatime/nodiratime 禁止更新访问时间
```

dump

为0

pass

该字段被fsck命令用来决定在启动时需要被扫描的文件系统的顺序,根文件系统"/"对应该字段的值应该为1,其他文件系统应该为2。若该文件系统无需在启动时扫描则设置该字段为0

noatime/nodiratime

```
/dev/sda2 /data ext3 defaults 0 2
/dev/sda2 /data ext3 defaults,noatime,nodiratime 0 2
```

mount -o remount /data mount -o noatime -o nodiratime -o remount /data

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2. RAM FS

mkdir -p /mnt/ram1
mount -t ramfs none /mnt/ram1 -o maxsize=10000

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3. tmpfs

```
# mkdir -p /mnt/tmpfs
# mount tmpfs /mnt/tmpfs -t tmpfs
# mount tmpfs /mnt/tmpfs -t tmpfs -o size=32m
```

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 2. RAM FS
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 4. ftp fs

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4. ftp fs

安装

sudo apt-get install curlftpfs

挂载

sudo curlftpfs ftp://username:password@172.16.0.1 /mnt/ftp

卸载

sudo fusermount -u /mnt/ftp

权限设置

sudo curlftpfs -o rw,allow_other,uid=500,gid=500 ftp://neo:chen@172.16.1.1
/mnt/ftp
sudo curlftpfs ftp://host/sub_dir mount_point -o user="ftp_username:ftp_password",
uid=user_id, gid=group_id, allow_other

fstab 开机自动挂载

sudo echo "curlftpfs#username:password@172.16.0.1 /mnt/ftp fuse allow_other,uid=userid,gid=groupid 0 0" >> /etc/fstab

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5. SSHFS (sshfs - filesystem client based on SSH File Transfer Protocol)

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5. SSHFS (sshfs - filesystem client based on SSH File Transfer Protocol)

\$ sudo apt-get install sshfs
\$ sudo sshfs root@172.16.0.5:/home/neo /mnt
\$ sudo fusermount -u /mnt

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8.1. Ubuntu

9. Finding optimal MTU

1. Hostname

1.1. /etc/hostname

```
# cat /etc/hostname
web1.example.com
```

1.2. /etc/host.conf

解析顺序配置文件

```
[root@development bin]# cat /etc/host.conf
order hosts,bind
```

首先在/etc/hosts文件中寻找,如果不存在,再去DNS服务器中寻找

1.3. /etc/hosts

IP地址后面TAB符, 然后写主机地址

```
127.0.0.1 localhost.localdomain localhost
::1 localhost6.localdomain6 localhost6
192.168.1.10 development.example.com development
```

/etc/hosts.allow 和 /etc/hosts.deny

许可IP/禁止IP, 相当于黑白名单

1.5. /etc/resolv.conf

search example.com nameserver 208.67.222.222 nameserver 208.67.220.220

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5. SSHFS (sshfs - filesystem client based on SSH File Transfer Protocol)

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2. Network adapter

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2. Network adapter

ethtool eth1

```
neo@shenzhen:~/doc/Linux/xhtml$ sudo ethtool eth1
Settings for eth1:
        Supported ports: [ TP MII ]
                                10baseT/Half 10baseT/Full
        Supported link modes:
                                 100baseT/Half 100baseT/Full
        Supports auto-negotiation: Yes
        Advertised link modes: 10baseT/Half 10baseT/Full
                                 100baseT/Half 100baseT/Full
        Advertised auto-negotiation: Yes
        Speed: 100Mb/s
Duplex: Full
        Port: MII
        PHYAD: 32
        Transceiver: internal
        Auto-negotiation: on
        Supports Wake-on: pumbg
        Wake-on: d
        Current message level: 0x00000007 (7)
        Link detected: yes
```

mii-tool

```
neo@shenzhen:~/doc/Linux/xhtml$ sudo mii-tool
eth1: negotiated 100baseTx-FD, link ok
```

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3. Ethernet Interfaces

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3. Ethernet Interfaces

restart

```
sudo /etc/init.d/networking restart
```

3.1. ifquery

```
$ sudo ifquery --list
lo
eth0
eth1
```

3.2. DHCP

DHCP

```
sudo vi /etc/network/interfaces

# The primary network interface - use DHCP to find our address
auto eth0
iface eth0 inet dhcp
```

3.3. Static IP

Static IP

```
# The primary network interface
auto eth0
iface eth0 inet static
address 192.168.3.90
gateway 192.168.3.1
netmask 255.255.255.0
network 192.168.3.0
broadcast 192.168.3.255
```

Setting up Second IP address or Virtual IP address in Ubuntu

```
sudo vi /etc/network/interfaces

auto eth0:1
iface eth0:1 inet static
address 192.168.1.60
netmask 255.255.255.0
network x.x.x.x
broadcast x.x.x.x
gateway x.x.x.x
```

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4. Mask

举例说明该算法。

例:给定一class c address: 192.168.5.0,要求划分20个子网,每个子网5个主机。

解:因为4 <5 < 8,用256-8=248---->即是所求的子网掩码,对应的子网数也就出来了。这是针对C类地址。

针对B类地址的做法。对于B类地址,假如主机数小于或等于254,与C类地址算法相同。对于主机数大于254的,如需主机 700台,50个子网(相当大了),512 < 700< 1024 256 — (1024/256) =256 — 4 = 252 ----> 即是所求的子网掩码,对应的子网数也就出来了。上面

256-(1024/256)=256-4=252---->即是所求的子网掩码,对应的子网数也就出来了。上面 256-4中的4(2的2次幂)是指主机数用2进制表示时超过8位的位数,即超过2位,掩码为剩余的前6位,即子网数为2(6)-2=62个。

Append :	Host/Subnet Quant	ities Table	
 Class A		Effective	Effective
# bits	Mask	Subnets	Hosts
2	255.192.0.0	2	4194302
3	255.224.0.0	6	2097150
4	255.240.0.0	14	1048574
5	255.248.0.0		524286
6	255.252.0.0		
7	255.252.0.0 255.254.0.0 255.255.0.0	62 126	131070
8	255.255.0.0	254	65536
9	255.255.128.0	510	32766
10	255.255.192.0	1022	16382
11	255.255.224.0	2046	8190
12	255.255.240.0	4094	4094
13	255.255.248.0	8190	2046
14	255.255.252.0		1022
15	255.255.254.0	32766	510
16	255.255.254.0 255.255.255.0	65536	254
17	255.255.255.128	131070	126
	255.255.255.192		62
	255.255.255.224	524286	30
20	255.255.255.240	1048574	14
	255.255.255.248		6
22	255.255.255.252		2
Class B		Effective	
		Subnets	
2	255.255.192.0	2	16382
3	255.255.224.0	6	8190
4	255.255.240.0	14	4094
5	255.255.248.0	30	2046
6	255.255.252.0 255.255.254.0	62	1022
7	255.255.254.0	126	510
8	255.255.255.0	254	254
9	255.255.255.128		126
10	255.255.255.192		
11	255.255.255.224	2046	30
12		4094	14
13	255.255.255.248		6
14	255.255.255.252	16382	2
Class C		Effective	Effective
# bits	Mask	Subnets	Hosts
2	255.255.255.192	2	62
			30
	255.255.255.224	U	30
3	255.255.255.224 255.255.255.240	14	14

6 255.255.255.252 62 2 *Subnet all zeroes and all ones excluded. *Host all zeroes and all ones excluded.

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5. Gateway

default gateway

\$ sudo route add default gw 172.16.0.1

\$ sudo ip route default via 172.16.0.1 dev eth0

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4. Mask <u>起始页</u> 6. Configuring Name Server Lookups

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6. Configuring Name Server Lookups

Setting up DNS

When it comes to DNS setup Ubuntu doesn't differ from other distributions. You can add hostname and IP addresses to the file /etc/hosts for static lookups.

To cause your machine to consult with a particular server for name lookups you simply add their addresses to $/\mathrm{etc}/\mathrm{resolv}$.

For example a machine which should perform lookups from the DNS server at IP address 192.168.3.2 would have a resolv.conf file looking like this

sudo vi /etc/resolv.conf

enter the following details

search test.com
nameserver 192.168.3.2

domain domain.com search www.domain.com domain.com

nameserver 202.96.128.86 nameserver 202.96.134.133

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7. sysctl

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7. sysctl

enable IP forwarding

```
neo@shenzhen:~$ sysctl net.ipv4.ip_forward
net.ipv4.ip_forward = 1
```

```
# enable IP forwarding
echo 1 > /proc/sys/net/ipv4/ip_forward
```

ubuntu

```
sysctl -w net.ipv4.ip_forward=1
```

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8. bonding

绑定的前提条件:芯片组型号相同,而且网卡应该具备自己独立的BIOS芯片。

#vi ifcfg-bond0

cat ifcfg-bond0
DEVICE=bond0
BOOTPROTO=static
IPADDR=172.16.0.1
NETMASK=255.255.252.0
BROADCAST=172.16.3.254
ONBOOT=yes
TYPE=Ethernet

这里要主意,不要指定单个网卡的IP地址、子网掩码。将上述信息指定到虚拟适配器(bonding)中即可

[root@rhas-13 network-scripts]# cat ifcfg-eth0
DEVICE=eth0
ONBOOT=yes
BOOTPROTO=dhcp

[root@rhas-13 network-scripts]# cat ifcfg-eth1
DEVICE=eth1
ONBOOT=yes
BOOTPROTO=dhcp

编辑 /etc/modules.conf 文件,加入如下一行内容,以使系统在启动时加载bonding模块,对外虚拟网络接口设备为 bond0.加入下列两行:

* /etc/modules.conf 文件已经不再使用

cat >> /etc/modprobe.d/bonding.conf <<EOF
alias bond0 bonding
options bond0 miimon=100 mode=1
EOF</pre>

说明: miimon是用来进行链路监测的。比如:miimon=100,那么系统每100ms监测一次链路连接状态,如果有一条线路不通就转入另一条线路; mode的值表示工作模式,他共有0,1,2,3四种模式,常用的为0,1两种。mode=0表示load balancing (round-robin)为负载均衡方式,两块网卡都工作。mode=1表示fault-tolerance (active-backup)提供冗余功能,工作方式是主备的工作方式,也就是说默认情况下只有一块网卡工作,另一块做备份。bonding只能提供链路监测,即从主机到交换机的链路是否接通。如果只是交换机对外的链路down掉了,而交换机本身并没有故障,那么bonding会认为链路没有问题而继续使用。

vi /etc/rc.d/rc.local

```
ifenslave bond0 eth0 eth1 route add -net 172.31.3.254 netmask 255.255.255.0 bond0
```

到这时已经配置完毕重新启动机器。重启会看见以下信息就表示配置成功了

```
Bringing up interface bond0 OK
Bringing up interface eth0 OK
```

```
Bringing up interface eth1 OK ......
```

mode=1工作在主备模式下,这时eth1作为备份网卡是no arp的 [root@rhas-13 network-scripts]# ifconfig 验证网卡的配置信息

那也就是说在主备模式下,当一个网络接口失效时(例如主交换机掉电等),不回出现网络中断,系统会按照cat /etc/rc.d/rc.local里指定网卡的顺序工作,机器仍能对外服务,起到了失效保护的功能。在mode=0负载均衡工作模式,他能提供两倍的带宽,下我们来看一下网卡的配置信息:

在这种情况下出现一块网卡失效,仅仅会是服务器出口带宽下降,也不会影响网络使用。通过查看bond0的工作状态查询能详细的掌握bonding的工作状态

Linux下通过网卡邦定技术既增加了服务器的可靠性,又增加了可用网络带宽,为用户提供不间断的关键服务。

8.1. Ubuntu

ifenslave

```
apt-get install ifenslave-2.6
```

/etc/modules

```
bonding
```

modprobe bonding

/etc/modprobe.d/aliases

```
alias bond0 bonding options bonding mode=0 miimon=100 or options bonding mode=1 miimon=100 downdelay=200 updelay=200
```

例 12.1. bonding example

/etc/network/interfaces

```
auto lo
iface lo inet loopback

iface eth0 inet dhcp
iface eth1 inet dhcp

auto bond0
iface bond0 inet static
address 172.16.0.1
netmask 255.255.255.0
gateway 172.16.0.254
up ifenslave bond0 eth0 eth1
down ifenslave -d bond0 eth0 eth1
```

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9. Finding optimal MTU

7. sysctl

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9. Finding optimal MTU

```
$ ping -c 1 -s $((1500-28)) -M do www.debian.org
PING www.debian.org (140.112.8.139) 1472(1500) bytes of data.
1480 bytes from linux3.cc.ntu.edu.tw (140.112.8.139): icmp_seq=1 ttl=47 time=52.7
ms
--- www.debian.org ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 52.778/52.778/0.000 ms
```

Try 1454 instead of 1500

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8. bonding
第 13章 syslog, klogctl - read and/or clear kernel message ring buffer; set console_loglevel

第 13 章 syslog, klogctl - read and/or clear kernel message ring buffer; set console_loglevel

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第 13 章 syslog, klogctl - read and/or clear kernel message ring buffer; set console_loglevel

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- 1. /etc/sysconfig/syslog
- 2. /etc/syslog.conf
- 3. logger
- 4. To Log Messages Over UDP Network

1. /etc/sysconfig/syslog

enables logging from remote machines

```
# vim /etc/sysconfig/syslog

#SYSLOGD_OPTIONS="-m 0"
SYSLOGD_OPTIONS="-r -m 0"
```

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2. /etc/syslog.conf

9. Finding optimal MTU

2. /etc/syslog.conf

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第 13 章 syslog, klogctl - read and/or clear kernel message ring buffer; set console_loglevel

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2. /etc/syslog.conf

.	@172.16.0.9	

所有日志将被重定向到172.16.0.9

[root@dev1 test]# service syslog restart		
Shutting down kernel logger:	[OK]	
Shutting down system logger:	[OK]	
Starting system logger:	[OK]	
Starting kernel logger:	[OK]	
[root@dev1 test]#		

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第 13 章 syslog, klogctl - read and/or clear kernel message ring buffer; set console_loglevel

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3. logger

日志的级别

```
emerg 系统已经不可用,级别为紧急
alert 警报,需要立即处理和解决
crit 既将发生,得需要预防。事件就要发生
warnig 警告
err 错误信息,普通的错误信息
notice 提醒信息,很重要的信息
info 通知信息,属于一般信息
debug 这是调试类信息
```

```
#vi /etc/syslog.conf

# Log anything (except mail) of level info or higher.
# Don't log private authentication messages!
*.info;mail.none;authpriv.none;cron.none;local1.none;local3.none /var/log/messages

#my log
local3.* /var/log/my.log
```

```
# service syslog restart
Shutting down kernel logger: [ OK ]
Shutting down system logger: [ OK ]
Starting system logger: [ OK ]
Starting kernel logger: [ OK ]
```

```
ping 192.168.0.1 | logger -it logger_test -p local3.notice
```

```
# cat /var/log/my.log
Jan 12 18:06:03 dev1 logger_test[10991]: PING 192.168.0.1 (192.168.0.1) 56(84)
bytes of data.
Jan 12 18:06:03 dev1 logger_test[10991]: 64 bytes from 192.168.0.1: icmp_seq=1
ttl=64 time=0.746 ms
Jan 12 18:06:04 dev1 logger_test[10991]: 64 bytes from 192.168.0.1: icmp_seq=2
ttl=64 time=0.713 ms
Jan 12 18:06:05 dev1 logger_test[10991]: 64 bytes from 192.168.0.1: icmp_seq=3
ttl=64 time=0.924 ms
Jan 12 18:06:06 dev1 logger_test[10991]: 64 bytes from 192.168.0.1: icmp_seq=4
ttl=64 time=0.819 ms
Jan 12 18:06:08 dev1 logger_test[10991]: 64 bytes from 192.168.0.1: icmp_seq=5
ttl=64 time=0.667 ms
Jan 12 18:06:09 dev1 logger_test[10991]: 64 bytes from 192.168.0.1: icmp_seq=6
ttl=64 time=0.626 ms
Jan 12 18:06:10 dev1 logger_test[10991]: 64 bytes from 192.168.0.1: icmp_seq=7
ttl=64 time=0.665 ms
```

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2. /etc/syslog.conf

4. To Log Messages Over UDP Network

4. To Log Messages Over UDP Network 第 13 章 syslog, klogctl - read and/or clear

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4. To Log Messages Over UDP Network

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3. logger

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第 14 章 logrotate - rotates, compresses, and mails system logs

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第 14 章 logrotate - rotates, compresses, and mails system logs

目录

1. /etc/logrotate.conf

2. /etc/logrotate.d/

2.1. apache2

<u>2.2. mysql</u>

2.3. cacti

logrotate 是linux系统自带的日志分割与压缩程序,通过crontab每日运行一次。

```
$ cat /etc/cron.daily/logrotate
#!/bin/sh

test -x /usr/sbin/logrotate || exit 0
/usr/sbin/logrotate /etc/logrotate.conf
```

1. /etc/logrotate.conf

```
$ cat /etc/logrotate.conf
# see "man logrotate" for details
# rotate log files weekly
weekly
# keep 4 weeks worth of backlogs
rotate 4
# create new (empty) log files after rotating old ones
# uncomment this if you want your log files compressed
#compress
# packages drop log rotation information into this directory
include /etc/logrotate.d
# no packages own wtmp, or btmp -- we'll rotate them here
/var/log/wtmp {
    missingok
    monthly
    create 0664 root utmp
    rotate 1
}
/var/log/btmp {
    missingok
    monthly
    create 0660 root utmp
    rotate 1
# system-specific logs may be configured here
```

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第 14 章 logrotate - rotates, compresses, and mails system logs

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2. /etc/logrotate.d/

2.1. apache2

```
$ cat /etc/logrotate.d/apache2
/var/log/apache2/*.log {
        weekly
        missingok
        rotate 52
        compress
        delaycompress
        notifempty
        create 640 root adm
        sharedscripts
        postrotate
                     -f "`. /etc/apache2/envvars ; echo ${APACHE_PID_FILE:-
/var/run/apache2.pid}`" ]; then
                         /etc/init.d/apache2 reload > /dev/null
                fi
        endscript
}
```

```
/var/log/httpd/*log {
    missingok
    notifempty
    sharedscripts
    postrotate
        /sbin/service httpd reload > /dev/null 2>/dev/null || true
    endscript
}
```

2.2. mysql

```
$ cat /etc/logrotate.d/mysql-server
# - I put everything in one block and added sharedscripts, so that mysql gets
   flush-logs'd only once.
  Else the binary logs would automatically increase by n times every day.
# - The error log is obsolete, messages go to syslog now.
/var/log/mysql.log /var/log/mysql/mysql.log /var/log/mysql/mysql-slow.log {
        daily
        rotate 7
        missingok
        create 640 mysql adm
        compress
        sharedscripts
        postrotate
                 test -x /usr/bin/mysqladmin || exit 0
                 # If this fails, check debian.conf!
                 MYADMIN="/usr/bin/mysqladmin --defaults-
file=/etc/mysql/debian.cnf"
                 if [ -z "`$MYADMIN ping 2>/dev/null`" ]; then
                   # Really no mysqld or rather a missing debian-sys-maint user?
                   # If this occurs and is not a error please report a bug.
                   #if ps cax | grep -q mysqld; then
if killall -q -s0 -umysql mysqld; then
                     exit 1
                   fi
                 else
```

```
$MYADMIN flush-logs
fi
endscript
}
```

2.3. cacti

```
/var/log/cacti/*.log {
    weekly
    missingok
    rotate 52
    compress
    notifempty
    create 640 www-data www-data
    sharedscripts
}
```

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and mails system logs

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1. syslog-ng

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2. rsyslog

www.rsyslog.com

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6. Scheduled Tasks

- 6.1. crontab maintain crontab files for individual users6.2. at, batch, atq, atrm queue, examine or delete jobs for later execution
- 1. update-rc.d install and remove System-V style init script links

for example:

```
Insert links using the defaults:
   update-rc.d foobar defaults
Equivalent command using explicit argument sets:
   update-rc.d foobar start 20 2 3 4 5 . stop 20 0 1 6 .
More typical command using explicit argument sets:
  update-rc.d foobar start 30 2 3 4 5 . stop 70 0 1 6 .
Insert links at default runlevels when B requires A
   update-rc.d script_for_A defaults 80 20
  update-rc.d script for B defaults 90 10
Insert a link to a service that (presumably) will not be needed by any other
  update-rc.d top_level_app defaults 98 02
Insert links for a script that requires services that start/stop at sequence
  update-rc.d script_depends_on_svc20 defaults 21 19
Remove all links for a script (assuming foobar has been deleted already):
   update-rc.d foobar remove
Example of disabling a service:
   update-rc.d -f foobar remove
   update-rc.d foobar stop 20 2 3 4 5 .
Example of a command for installing a system initialization-and-shutdown script:
   update-rc.d foobar start 45 S . stop 31 0 6
Example of a command for disabling a system initialization-and-shutdown script:
   update-rc.d -f foobar remove
   update-rc.d foobar stop 45 S .
```

set default

```
update-rc.d nginx defaults
```

remove

```
update-rc.d -f lighttpd remove
$ sudo update-rc.d -f avahi-daemon remove
```





2. invoke-rc.d - executes System-V style init script actions

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2. invoke-rc.d - executes System-V style init script actions



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3. runlevel

```
$ runlevel
N 2
# runlevel
N 3
```

```
$ sudo vim /etc/init.d/rcS
#! /bin/sh
#
# rcS
#
# Call all S??* scripts in /etc/rcS.d/ in numerical/alphabetical order
#
exec /etc/init.d/rc S
```

the default is S (/etc/rcS.d/)

the redhat linux in the /etc/inittab

switch runlevel

/etc/init.d/rc 3

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2. invoke-rc.d - executes System-V style init script actions

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4. sysv-rc-conf

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4. sysv-rc-conf

(ubuntu下sysv-rc-conf命令等同redhat下chkconfig命令)

sysv-rc-conf gmond on sysv-rc-conf --list gmond

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5. xinetd - replacement for inetd with many enhancements

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5. xinetd - replacement for inetd with many enhancements

```
$ sudo apt-get install xinetd
```

5.1. tftpd

```
apt-get install xinetd apt-get install tftpd tftp
```

/etc/xinetd.d/tftp

```
service tftp
{
    disable=no
    socket_type=dgram
    protocol =udp
    wait=yes
    user=root
    server=/usr/sbin/in.tftpd
    server_args =-s /home/neo/tftpboot -c
    per_source=11
    cps=100 2
    flags=IPv4
}
```

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6. Scheduled Tasks

4. sysv-rc-conf

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6. Scheduled Tasks

6.1. crontab - maintain crontab files for individual users

To see what crontabs are currently running on your system, you can open a terminal and run:

```
$ crontab -1
# m h dom mon dow command
#* */30 * * * /home/neo/dyndns
```

if you want to see root user, please add 'sudo' in the prefix.

To edit the list of cron jobs you can run:

```
$ crontab -e
```

As you can see there are 5 stars. The stars represent different date parts in the following order:

- 1. minute (from 0 to 59)
- 2. hour (from 0 to 23)
- 3. day of month (from 1 to 31)
- 4. month (from 1 to 12)
- 5. day of week (from 0 to 6) (0=Sunday)

By default cron jobs sends a email to the user account executing the cronjob. If this is not needed put the following command At the end of the cron job line .

```
>/dev/null 2>&1
```

6.2. at, batch, atq, atrm - queue, examine or delete jobs for later execution

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8. ls - list directory contents

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      5. pid
      6. jobs
             6.1. &
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```

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```
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```

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- 2. Access Permissions
 - 2.1. chown change file owner and group
 - 2.2. chgrp change group ownership
 - 2.3. chmod change file access permissions
- 3. chattr change file attributes on a Linux second extended file system
- 4. su run a shell with substitute user and group IDs
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- 1.3. 指定手册位置
- 1. man an interface to the on-line reference manuals
- 1.1. manpath.config

cat /etc/manpath.config

1.2. 查看man手册位置

\$ man -aw ls
/usr/share/man/man1/ls.1.gz

1.3. 指定手册位置

man -M /home/mysql/man mysql

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- 1. tar The GNU version of the tar archiving utility
- 1.1. tar examples

tar

```
tar -cvf foo.tar foo/
tar contents of folder foo in foo.tar

tar -xvf foo.tar
extract foo.tar
```

1.2. gzip

gzip/gunzip

```
tar -zcvf foo.tar foo/
tar contents of folder foo in foo.tar.gz

tar -xvzf foo.tar.gz
extract gzipped foo.tar.gz
```

```
# 1s access.2010-{10,11}-??.log
access.2010-10-01.log access.2010-10-17.log access.2010-11-02.log access.2010-
11-18.log
access.2010-10-02.log access.2010-10-18.log access.2010-11-03.log access.2010-
11-19.log
access.2010-10-03.log access.2010-10-19.log access.2010-11-04.log access.2010-
11-20.log
access.2010-10-04.log access.2010-10-20.log access.2010-11-05.log access.2010-
11-21.log
access.2010-10-05.log access.2010-10-21.log access.2010-11-06.log access.2010-
11-22.log
access.2010-10-06.log access.2010-10-22.log access.2010-11-07.log access.2010-
```

```
11-23.log
access.2010-10-07.log access.2010-10-23.log access.2010-11-08.log access.2010-
11-24.log
access.2010-10-08.log access.2010-10-24.log access.2010-11-09.log access.2010-
11-25.log
access.2010-10-09.log access.2010-10-25.log access.2010-11-10.log access.2010-
11-26.log
access.2010-10-10.log access.2010-10-26.log access.2010-11-11.log access.2010-
11-27.log
access.2010-10-11.log access.2010-10-27.log access.2010-11-12.log access.2010-
11-28.log
access.2010-10-12.log access.2010-10-28.log access.2010-11-13.log access.2010-
11-29.log
access.2010-10-13.log access.2010-10-29.log access.2010-11-14.log access.2010-
11-30.log
access.2010-10-14.log access.2010-10-30.log access.2010-11-15.log
access.2010-10-15.log access.2010-10-31.log access.2010-11-16.log
access.2010-10-16.log access.2010-11-01.log access.2010-11-17.log
# gzip access.2010-{10,11}-??.log
```

```
# ls access.2010-{0?,10,11}-??.log
access.2010-08-28.log access.2010-10-02.log access.2010-10-13.log access.2010-
10-27.log access.2010-11-06.log access.2010-11-17.log access.2010-11-26.log
access.2010-08-31.log access.2010-10-03.log access.2010-10-14.log access.2010-
10-28.log access.2010-11-08.log access.2010-11-18.log access.2010-11-27.log
access.2010-09-24.log access.2010-10-04.log access.2010-10-15.log access.2010-
10-29.log access.2010-11-09.log access.2010-11-19.log access.2010-11-28.log
access.2010-09-25.log access.2010-10-06.log access.2010-10-17.log access.2010-
10-30.log access.2010-11-10.log access.2010-11-20.log access.2010-11-29.log
access.2010-09-26.log
                     access.2010-10-07.log access.2010-10-19.log access.2010-
10-31.log access.2010-11-11.log access.2010-11-21.log access.2010-11-30.log
access.2010-09-27.log access.2010-10-08.log access.2010-10-20.log access.2010-
11-02.log access.2010-11-12.log access.2010-11-22.log
access.2010-09-29.log access.2010-10-09.log access.2010-10-22.log access.2010-
11-03.log access.2010-11-14.log access.2010-11-23.log
access.2010-09-30.log access.2010-10-10.log
                                            access.2010-10-23.log access.2010-
11-04.log access.2010-11-15.log access.2010-11-24.log
access.2010-10-01.log access.2010-10-12.log access.2010-10-25.log access.2010-
11-05.log access.2010-11-16.log access.2010-11-25.log
# gzip access.2010-{0?,10,11}-??.log &
```

1.3. b2zip

b2zip

```
tar -jcvf foo.tar.bz2 foo/
tar contents of folder foo in foo.tar.bz2

tar -jxvf foo.tar.bz2
extract b2zip foo.tar.bz2
```

compress

compress/uncompress

```
tar -Zcvf foo.tar.Z foo/
tar contents of folder foo in foo.tar.Z

tar -Zxvf foo.tar.Z
extract compress foo.tar.Z
```

- 1.5. tar: Removing leading '/' from member names
 - -P, --absolute-names don't strip leading '/'s from file names

```
$ tar -czvPf neo.tar.gz /home/neo/
$ tar -xzvPf neo.tar.gz
```

1.6. -C, --directory=DIR

-C, --directory=DIR change to directory DIR

```
tar -xzvf neo.tar.gz -C /
```

1.7. --exclude

排除neo目录

```
tar --exclude /home/neo -zcvf myfile.tar.gz /home/* /etc
```

1.8. -T

```
find . -name "*.jpg" -print >list
tar -T list -czvf picture.tar.gz
find /etc/ | tar czvf xxx1.tar.gz -T -
```

1.9. 日期过滤

打包 2010/08/01 之后的文件和目录

```
tar -N '2010/08/01' -zcvf home.tar.gz /home
```

1.10. 保留权限

```
tar -zxvpf /tmp/etc.tar.gz /etc
```

1.11. -r, --append

追加最近7天更改过的文件

```
find / -type f -mtime -7 | xargs tar -rf weekly_incremental.tar
```

1.12. 远程传输

tar -jcpvf - file | ssh remote "tar -jxpvf -"

```
tar -jcpvf - file.php | ssh root@172.16.3.1 "tar -jxpvf -"
```

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14. find - search for files in a directory hierarchy

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2. aptitude

管理软件包

neo@kerberos:~\$ aptitude

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neo@kerberos:~\$ tasksel

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3. Automatic Updates

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3. Automatic Updates

sudo apt-get install unattended-upgrades

/etc/apt/apt.conf.d/50unattended-upgrades

Notifications

sudo apt-get install apticron

/etc/apticron/apticron.conf

EMAIL="root@example.com"

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4. dpkg

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4. dpkg

4.1. Status

系统上装了哪些软件包

```
要查看 Debian 系统上安装的所有软件包的状态,运行 dpkg --list 输出每个软件包的一行简单介绍, 2字符的状态标志,包名,所安装版本,和简要描述.查看以 "foo" 开头的软件包的状态,执行: dpkg --list 'foo*' 要得到某个软件包的更详细信息,执行: dpkg --status packagename
```

List of installed software packages

```
$ dpkg-query -W
```

Description of installed software packages

```
$ dpkg -1
```

找出一个文件的归属包

```
dpkg --search cachemgr
squid3-cgi: /usr/lib/cgi-bin/cachemgr3.cgi
squid3-cgi: /usr/share/man/man8/cachemgr3.cgi.8.gz
squid3-cgi: /etc/squid3/cachemgr.conf
```

4.2. dpkg-reconfigure

\$ sudo dpkg-reconfigure package

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3. Automatic Updates

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5. Upgrading

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5. Upgrading

升级到最新开发版

5.1. GUI

update-manager --devel-release

5.2. CLI

\$ sudo do-release-upgrade

\$ lsb_release -a

升级到最新开发版

vim /etc/update-manager/release-upgrades 文件, 把里面的 Prompt=lts 改为 Prompt=normal

sudo do-release-upgrade -d

5.3. CDROM

\$ sudo mount -t iso9660 -o loop ~/maverick-alternate-i386.iso /cdrom
\$ sudo /cdrom/cdromupgrade

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4. dpkg

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第 19 章 Directory and File System Related

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2. filename

2.1. 排除扩展名

2.2. 取扩展名

3. test - check file types and compare values

<u>4. stat</u>

5. mkdir - make directories

6. rename

7. touch

8. ls - list directory contents

9. cp - copy files and directories

9.1. copy directories recursively

9.2. overwrite an existing file

10. rm - remove files or directories

10.1. -bash: /bin/rm: Argument list too long

10.2. zsh: sure you want to delete all the files in /tmp [yn]?

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12. du - estimate file space usage

13. tac - concatenate and print files in reverse

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14.5. type

14.5.1. 分别设置文件与目录的权限

14.6. -delete

14.7. exec

14.8. xargs

14.9. 排除目录

14.10. -mtime / -mmin

14.11. --newer

14.12. -print / -printf

1. dirname

\$ dirname /usr/bin/find
/usr/bin

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2. filename

```
$ basename /usr/bin/find
find
```

2.1. 排除扩展名

```
file=test.txt
b=${file%.*}
echo $b
```

```
$ for file in *.JPG;do mv $file ${file%.*}.jpg;done
```

2.2. 取扩展名

```
file=test.txt
b=${file##*.}
echo $b
```

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3. test - check file types and compare values

3. test - check file types and compare values 第 19 章 Directory and File System Related

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3. test - check file types and compare values

test -x /usr/bin/munin-cron && /usr/bin/munin-cron

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 2. filename
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 4. stat

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4. stat

modification time (mtime, 修改时间): 当该文件的"内容数据"更改时, 会更新这个时间。内容数据指的 是文件的内容,而不是文件的属性。

status time (ctime, 状态时间): 当该文件的"状态 (status)"改变时,就会更新这个时间,举例,更改了权限与属性,就会更新这个时间。

access time (atime, 存取时间): 当"取用文件内容"时, 就会更新这个读取时间。举例来使用cat去读取 该文件,就会更新atime了。

[root@apache www]# stat index.html

File: `index.html' Size: 145355 Blocks: 296 IO Block: 4096 regular file

Access: (0755/-rwxr-xr-x) Uid: (502/ upuser) Gid: (502/ upuser)
Access: 2010-10-28 11:09:52.000000000 +0800
Modify: 2010-10-28 10:23:13 00000000 Modify: 2010-10-28 10:23:13.00000000 +0800 Change: 2010-10-28 10:23:13.000000000 +0800

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3. test - check file types and compare values

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5. mkdir - make directories

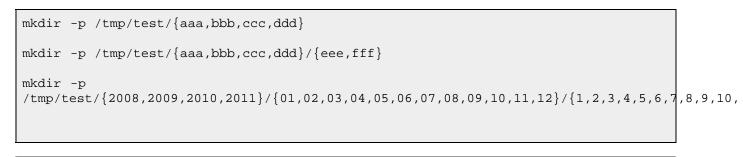
5. mkdir - make directories

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5. mkdir - make directories



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6. rename

批量更改扩展名

```
rename 's/\.png/\.PNG/' *.png
rename '/\.mp3/\.MP3/' *.mp3
rename .mp3 .MP3 *.mp3
rename GIF gif *.GIF
```

上一页 5. mkdir - make directories <u>上一级</u> 起始页 下一页

7. touch

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7. touch

创建空文件,修改文件日期时间

```
touch [-acdmt] 文件
参数:
-a: 仅修改access time。
-c: 仅修改时间,而不建立文件。
-d: 后面可以接日期,也可以使用 --date="日期或时间"
-m: 仅修改mtime。
-t: 后面可以接时间,格式为 [YYMMDDhhmm]

# touch filename
# touch -d 20050809 filename
# touch -t 0507150202 bashrc
# touch -d "2 days ago" bashrc
# touch --date "2011-06-03" filename
```

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6. rename

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8. ls - list directory contents

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8. ls - list directory contents

```
$ ls
$ ls ~
$ ls -l
$ ls -a
$ ls -I
$ ls -F
bg7nyt.txt* Desktop/ Firefox_wallpaper.png Music/ public_html@ Videos/
bg7nyt.wav* Documents/ Mail/ nat.txt* script/
workspace/
BOINC/ Examples@ mbox Pictures/ Templates/
```

{}通配符

```
ls {*.py,*.php,*.{sh,shell}}
```

take a look at below

```
alias l='ls -CF'
alias la='ls -A'
alias ll='ls -l'
alias ls='ls --color=auto'
```

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7. touch

9. cp - copy files and directories

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- 9. cp copy files and directories
- 9.1. copy directories recursively

```
cp -r /etc/* ~/myetc
```

9.2. overwrite an existing file

```
# alias cp
alias cp='cp -i'
# unalias cp
# alias cp
-bash: alias: cp: not found
```

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8. ls - list directory contents

10. rm - remove files or directories

10. rm - remove files or directories 第 19 章 Directory and File System Related

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- 10. rm remove files or directories
- 10.1. -bash: /bin/rm: Argument list too long

```
ls -1 | xargs rm -f
find . -name 'spam-*' | xargs rm
find . -exec rm {} \;
ls | xargs -n 10 rm -fr # 10个为一组
```

10.2. zsh: sure you want to delete all the files in /tmp [yn]?

```
yes | rm -i file
```

上一页 上一级 9. cp - copy files and directories 11. df - report file system disk space 起始页

usage

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11. df - report file system disk space usage

neo@netkiller:~\$ df	-lh				
Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/sda1	19G	3.1G	15G	17%	/
none	996M	224K	996M	1%	/dev
none	1000M	0	1000M	0%	/dev/shm
none	1000M	520K	1000M	1%	/var/run
none	1000M	0	1000M	0%	/var/lock
none	1000M	0	1000M	0%	/lib/init/rw
/dev/sda6	19G	13G	4.5G	75%	/home
/dev/sda10	556M	178M	351M	34%	/boot
/dev/sda7	46G	4.4G	40G	10%	/var
/dev/sda8	367G	60G	289G	18%	/opt
/dev/sda9	6.5G	143M	6.0G	3%	/tmp

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10. rm - remove files or directories

12. du - estimate file space usage

12. du - estimate file space usage 第 19 章 Directory and File System Related

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12. du - estimate file space usage

neo@netkiller:~\$ sudo du -sh /usr/local 63M /usr/local

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11. df - report file system disk space usage

13. tac - concatenate and print files in reverse

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13. tac - concatenate and print files in reverse

\$ tac /etc/issue
Kernel \r on an \m
CentOS release 5.4 (Final)

上一页 12. du - estimate file space usage 起始页 14. find - search for files in a directory hierarchy

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14. find - search for files in a directory hierarchy

14.1. name

Find every file under directory /usr ending in "stat".

```
$ find /usr -name *stat
/usr/src/linux-headers-2.6.24-22-generic/include/config/cpu/freq/stat
/usr/bin/lnstat
/usr/bin/sar.sysstat
/usr/bin/mpstat
/usr/bin/rtstat
/usr/bin/nstat
/usr/bin/lpstat
/usr/bin/ctstat
/usr/bin/stat
/usr/bin/kpsestat
/usr/bin/pidstat
/usr/bin/iostat
/usr/bin/vmstat
/usr/lib/sysstat
/usr/share/doc/sysstat
/usr/share/gnome/help/battstat
/usr/share/omf/battstat
/usr/share/zsh/help/stat
/usr/share/zsh/4.3.4/functions/Completion/Unix/_diffstat
/usr/share/zsh/4.3.4/functions/Completion/Zsh/_stat
/usr/share/zsh/4.3.4/functions/Zftp/zfstat
```

```
find \( -iname '*.jpg' -o -iname '*.png' -o -iname '*.gif' \)
find /www/images -type f \( -iname '*.js' -o -iname '*.css' -o -iname '*.html' \)
| xargs tar -czf ~/images.tgz
```

14.2. regex

```
find . -regex ".*\.\(jpg\|png\)"
```

下面regex与name作用相同

```
find . -regex ".*\.\(txt\|sh\)"
find . -name "*.sh" -o -name "*.txt"
```

14.3. user

Find every file under /home and /var/www owned by the user neo.

```
$ find /home -user neo
$ find /var/www -user neo
$ find . -user nobody -iname '*.php'
```

14.4. perm

```
find ./ -perm -7 -print | xargs chmod o-w find . -perm -o=w
```

14.5.1. 分别设置文件与目录的权限

```
find /usr/www/phpmyadmin -type d -exec chmod 755 {} \;
find /usr/www/phpmyadmin -type f -exec chmod 644 {} \;
```

14.6. -delete

```
# find /var/spool/clientmqueue/ -type f -delete
```

14.7. exec

替换文本

```
# find ./ -exec grep str1 `{}' \; -exec sed -i.bak s/str1/str2/g `{}' \;
find -exec ls -l {} \; | grep '2011-01-18'
```

```
() ( | 3 -1
```

14.8. xargs

```
find /etc -type f|xargs md5sum
```

```
find ./ -name "*html" | xargs -n 1 sed -i -e 's/aaa/bbb/g'
```

```
find /tmp -name core -type f -print | xargs /bin/rm -f
find . -type f -exec file '{}' \;
```

14.9. 排除目录

```
find /usr/local -path "/usr/local/share" -prune -o -print
find /usr/local \( -path /usr/local/bin -o -path /usr/local/sbin \) -prune -o -
print
find /usr/local \( -path /usr/local/dir1 -o -path /usr/local/file1 \) -prune -o -
name "temp" -print
```

查找当前目录下的php文件,排除子目录templates_c, caches

```
find . \( -path ./templates_c -o -path ./caches \) -prune -o -name "*.php" -print
```

14.10. -mtime / -mmin

3天前

```
find . -type f -mtime -3
```

```
# find . -mmin +5 -mmin -10
```

例 19.1. backup(find + tar)

```
find / -type f -mtime -7 | xargs tar -rf weekly_incremental.tar
```

```
gzip weekly_incremental.tar
```

14.11. -- newer

```
tar --newer="2011-07-04" -zcvf backup.tar.gz /var/www/
tar cvzf foo.tgz /bak -N "2004-03-03 16:49:17"
```

14.12. -print / -printf

```
[root@scientific \sim]# find / -maxdepth 1 -name '[!.]*' -printf 'Name: %16f Size:
%6s\n'
Name:
                     / Size:
                               4096
                 misc Size:
Name:
                                 0
Name:
                 media Size:
                               4096
                 home Size:
Name:
                               4096
                  dev Size:
                               3840
Name:
                               0
Name:
                  net Size:
                 proc Size:
Name:
                                  0
                  sbin Size: 12288
Name:
                              4096
Name:
                 root Size:
Name:
                   lib Size:
                               4096
               cgroup Size:
                               4096
Name:
Name:
                  srv Size:
                              4096
                   mnt Size:
Name:
                               4096
                             12288
Name:
                   etc Size:
Name:
                   usr Size:
                 lib64 Size:
                             12288
Name:
                  boot Size:
Name:
                               1024
                   var Size:
Name:
               selinux Size:
Name:
                                 0
Name:
                   opt Size:
                               4096
                   tmp Size:
                              4096
Name:
Name:
            lost+found Size:
                              16384
Name:
                   sys Size:
                                0
                   bin Size:
Name:
                               4096
\# find /etc/ -type f -printf "%CY-%Cm-%Cd %Cr %8s %f\n"
```

上一页 上一级 下一页 13. tac - concatenate and print files in 第 20 章 package / compress and 起始页 decompress

reverse

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2. cpio - copy files to and from archives

```
find /opt -print | cpio -o > opt.cpio
find . -type f -name '*.sh' -print | cpio -o | gzip >sh.cpio.gz
cpio -i < opt.cpio
```

上一级 起始页

第 20 章 package / compress and decompress

3. zip, zipcloak, zipnote, zipsplit package and compress (archive) files 3. zip, zipcloak, zipnote, zipsplit - package and compress (archive) files
上一页 第 20 章 package / compress and decompress

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3. zip, zipcloak, zipnote, zipsplit - package and compress (archive) files
*zip
zip/unzip file[.zip]
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4. RAR

2. cpio - copy files to and from archives

第 20 章 package / compress and decompress

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4. RAR

sudo apt-get install ra	ar unrar	

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3. zip, zipcloak, zipnote, zipsplit - package and compress (archive) files

5. 7-Zip

第 20 章 package / compress and decompress

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5. 7-Zip

http://www.7-zip.org/

\$ sudo apt-get install	p7zip	
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4. RAR	起始页	第21章 Process

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```
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```

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第 21 章 Process

目录

```
1. top - display Linux tasks
```

2. ps - report a snapshot of the current processes

```
2.1. ps axef
2.2. ps -eo pid,cmd
2.3. ps jax
2.4. zombie process
```

```
3. mpstat
```

4. pstree - display a tree of processes

<u>5. pid</u>

6. jobs

6.1. &

6.2. Ctrl + Z

6.3. jobs

6.4. fg / bg

6.5. nohup - run a command immune to hangups, with output to a non-tty

7. ionice - get/set program io scheduling class and priority

1. top - display Linux tasks

```
top - 22:30:02 up 14:24, 1 user, load average: 0.17, 0.15, 0.10
Tasks: 240 total, 2 running, 238 sleeping, 0 stopped, 0 zombie
Cpu0 : 2.0%us, 4.1%sy, 0.0%ni, 92.9%id, 1.0%wa, 0.0%hi, 0.0%si, Cpu1 : 1.5%us, 3.7%sy, 0.1%ni, 94.6%id, 0.0%wa, 0.0%hi, 0.0%si,
                                                                                              0.0%st
Cpu2 : 2.2%us, 5.6%sy, 0.0%ni, 92.2%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0mu3 : 2.1%us, 6.3%sy, 0.0%ni, 91.6%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0mu8 : 2048012k total, 1138504k used, 909508k free, 139292k buffers
                                                                                             0.0%st
Swap: 1951856k total,
                                       0k used,
                                                   1951856k free,
                                                                         603728k cached
  PID USER
                    PR NI VIRT RES SHR S %CPU %MEM
                                                                       TIME+ COMMAND
                    20 0 19264 1440 980 R 11 0.1
20 0 9440 1572 1044 S 11 0.1
 4686 neo
                                                                     0:00.10 top
 4698 neo
                                                                      0:00.27 sitemaps
                    RT -5
                                                         4 0.0
                                0 0 0 5
                                                                     0:14.38 migration/1
     6 root
                    20 0 19320 1600 1132 S 0 0.1
15 -5 0 0 0 S 0 0.0
RT -5 0 0 0 S 0 0.0
     1 root
                                                                      0:01.50 init
     2 root
                                                                      0:00.00 kthreadd
                                                                      0:10.41 migration/0
     3 root
```

<u>上一页</u> 5. 7-Zip 上一级

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-Zip 起 :

起始页

2. ps - report a snapshot of the current processes

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2. ps - report a snapshot of the current processes

ps aux

\$ ps a	11V									
\$ ps a USER	ux PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	1	0.0	0.0	4020	888	?	Ss	08:50		/sbin/init
root	2	0.0	0.0	0	0	?	S<	08:50	0:00	[kthreadd]
root	3	0.0	0.0	0	0	?	S<	08:50	0:00	[migration/0]
root	4	0.0	0.0	0	0	?	S<	08:50	0:00	[ksoftirqd/0]
root	5	0.0	0.0	0	0	?	S<	08:50	0:00	[watchdog/0]
root	6	0.0	0.0	0	0	?	S<	08:50	0:00	[migration/1]
root	7	0.0	0.0	0	0	?	S<	08:50	0:00	[ksoftirqd/1]
root	8	0.0	0.0	0	0	· ?	S<	08:50	0:00	[watchdog/1]
root	9	0.0	0.0	0	0	;	S<	08:50	0:00	[migration/2]
root	10	0.0	0.0	0	0		S<	08:50	0:00	[ksoftirqd/2]
root	11	0.0	0.0	0	0	;	S<	08:50	0:00	[watchdog/2]
root	12	0.0	0.0	0	0	?	S<	08:50	0:00	[migration/3]
	13	0.0	0.0	0	0	;	S<	08:50	0:00	
root										[ksoftirqd/3]
root	14	0.0	0.0	0	0	?	S<	08:50	0:00	[watchdog/3]
root	15	0.0	0.0	0	0	?	S<	08:50	0:00	[events/0]
root	16	0.0	0.0	0	0	?	S<	08:50	0:00	[events/1]
root	17	0.0	0.0	0	0	?	S<	08:50	0:00	[events/2]
root	18	0.0	0.0	0	0	?	S<	08:50	0:00	[events/3]
root	19	0.0	0.0	0	0	?	S<	08:50	0:00	[khelper]
root	54	0.0	0.0	0	0	?	S<	08:50	0:00	[kblockd/0]
root	55	0.0	0.0	0	0	?	S<	08:50	0:00	[kblockd/1]
root	56	0.0	0.0	0	0	?	S<	08:50	0:00	[kblockd/2]
root	57	0.0	0.0	0	0	?	S<	08:50	0:00	[kblockd/3]
root	60	0.0	0.0	0	0	?	S<	08:50	0:00	[kacpid]
root	61	0.0	0.0	0	0	?	S<	08:50	0:00	[kacpi_notify]
root	136	0.0	0.0	0	0	?	S<	08:50	0:00	[kseriod]
root	193	0.0	0.0	0	0	?	S	08:50	0:00	[pdflush]
root	194	0.0	0.0	0	0	?	S	08:50	0:00	[pdflush]
root	195	0.0	0.0	0	0	?	S<	08:50	0:00	[kswapd0]
root	238	0.0	0.0	0	0	?	S<	08:50	0:00	[aio/0]
root	239	0.0	0.0	0	0	?	S<	08:50	0:00	[aio/1]
root	240	0.0	0.0	0	0	?	S<	08:50	0:00	[aio/2]
root	241	0.0	0.0	0	0	?	S<	08:50	0:00	[aio/3]
root	1468	0.0	0.0	0	0	?	S<	08:50	0:00	[ksuspend_usbd]
root	1471	0.0	0.0	0	0	?	S<	08:50	0:00	[khubd]
root	1559	0.0	0.0	0	0	?	S<	08:50	0:00	[ata/0]
root	1560	0.0	0.0	0	0	?	S<	08:50		[ata/1]
root	1561	0.0	0.0	0		?	S<	08:50		[ata/2]
root	1562		0.0	0		?	S<	08:50	0:00	
root	1563		0.0	0		?	S<	08:50		[ata_aux]
root	1743		0.0	0		?	S<	08:50		[scsi_eh_0]
root	1743	0.0	0.0	0		· ?	S<	08:50		[scsi_eh_1]
root	1878	0.0	0.0	0		?	S<	08:50		[scsi_eh_2]
root	1879		0.0	0		;	S<	08:50		[scsi_eh_3]
root	2508		0.0	0		;	S<	08:50		[kjournald]
root	2508	0.0	0.0	17188	1284		S<	08:50		/sbin/udevd
		0.0	0.0	T/188	1204	ſ	5<5	00.30	0.00	/ SDIII/ udeva
daemon		0 0	0 0	0	0	0	0.4	00.50	0.00	[]]
root	3055	0.0	0.0	15100		?	S<	08:50		[kpsmoused]
dhcp	4223	0.0	0.0	15108	840	?	S <s< td=""><td>08:50</td><td>0:00</td><td>dhclient3 -e</td></s<>	08:50	0:00	dhclient3 -e
	RIC=100 -			^	0	0	~	00-50	0 - 0 0	[]
root	4311	0.0	0.0	0		?	S<	08:50		[kjournald]
root	4585	0.0	0.0	3864	596	tty4	Ss+	08:50	0:00	/sbin/getty
38400	_									
root	4586	0.0	0.0	3864	596	tty5	Ss+	08:50	0:00	/sbin/getty
38400										
root	4588	0.0	0.0	3864	592	tty2	Ss+	08:50	0:00	/sbin/getty
38400	tty2									
root	4591	0.0	0.0	3864	596	tty3	Ss+	08:50	0:00	/sbin/getty
38400						-				
root	4592	0.0	0.0	45700	1328	ttyS0	Ss	08:50	0:00	/bin/login
root	4792	0.0	0.0	13076	1752		Ss	08:50		/usr/sbin/acpid
	c/acpi/ev		3.0			·	22		5 00	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
root	4859	0.0	0.0	0	0	?	S<	08:50	0:00	[kondemand/0]
	1000	0.0	3.0	0	U	•	5,	00.50	3.00	[oriaciiaria/0]

root	4860	0.0	0.0	0	0	?	S<	08:50	0:00	[kondemand/1]
root	4861	0.0	0.0	0	0	?	S<	08:50	0:00	[kondemand/2]
root syslog	4862 4926	0.0	0.0	0 12296	0 784	?	S< Ss	08:50 08:50	0:00	[kondemand/3] /sbin/syslogd -u
syslog										, 222-22, 272-252
root /proc/kmsg	4980	0.0	0.0	8132	592	?	S	08:50	0:00	/bin/dd bs 1 if
klog	4982	0.0	0.1	6184	2876	?	Ss	08:50	0:00	/sbin/klogd -P
/var/run/k 108	10ga/k 5004	0.0	0.0	21320	1104	?	Ss	08:50	0:00	/usr/bin/dbus-
daemons	ystem 5020	0.0	0.1	40112	2084	?	Ss	08:50	0:00	
/usr/sbin/	Networ	ckMana	ger	pid-f	ile					
root /usr/sbin/	5034 Networ	0.0 ckMana	0.0 gerD	24128 ispatch	1256 er	f	Ss	08:50	0:00	
root tools-back	5047	0.0	0.0	35192	1220	?	Ss	08:50	0:00	/usr/bin/system-
root avahi	5069 5090	0.0	0.0	50916 29708	1204 1508		Ss	08:50 08:50		/usr/sbin/sshd avahi-daemon:
running [n				29706	1506	ŗ	Ss	00.50	0.00	avani-daemon.
avahi chroot hel	5091	0.0	0.0	29580	508	?	Ss	08:50	0:00	avahi-daemon:
postgres	5117	0.0		101164	6196	?	S	08:50	0:01	
/usr/lib/p postgres	ostgre 5121	esql/8 0.0		in/post 101164	gre 1624	2	Ss	08:50	0:00	postgres: writer
process										
postgres writer pro	5122 cess	0.0	0.0	101164	1436	<i>:</i>	Ss	08:50	0:00	postgres: wal
postgres autovacuum	5123	0.0 cher r		101304	1684	?	Ss	08:50	0:00	postgres:
postgres	5124	0.0	0.0	71628	1432	?	Ss	08:50	0:00	postgres: stats
collector root	proces 5167	0.0	0.1	72312	2704	?	Ss	08:50	0:00	/usr/sbin/cupsd
115 -bd -q30m	5423	0.0	0.0	47552	1052		Ss	08:50		/usr/sbin/exim4
gnump3d	5431	0.0	0.8	54728	17744	?	S	08:50	0:00	/usr/bin/perl -w
/usr/bin/g root	nump3d 5481	d 0.0	0.0	10444	888	?	S	08:50	0:00	/usr/bin/rsync -
-no-detach root	dae 5500	emon 0.0	0.0	54048	1484	?	Ss	08:50	0:00	/usr/sbin/nmbd -
D root	5502	0.0	0.1	74548	2788	?	Ss	08:50	0:00	/usr/sbin/smbd -
D root	5573	0.0	0.0	19332	940	?	Ss	08:50	0:00	/usr/sbin/xinetd
-pidfile /			0.0	6272	840		Ss	08:50	0:00	/usr/sbin/dhcdbd
system										
111 root	5593 5596	0.0	0.2	35804 30528	4396 2384		Ss Ssl	08:50 08:50	0:00	/usr/sbin/hald
/usr/sbin/					1164		~	00.50	0 . 0 0	
root root	5658 5660	0.0	0.0	17820 74548	1164 1280		S S	08:50 08:50		hald-runner /usr/sbin/smbd -
D root	5690	0.0	0.0	19928	1148	?	S	08:50	0:00	hald-addon-
input: Lis	_			16670	000	2	a	00.50	0.00	hald adday
111 acpi: list	5693 ening		0.0 cpid	16672	992	f	S	08:50		hald-addon-
root x -s	5722	0.0	0.0	13532	1300	?	Ss	08:50	0:00	/usr/sbin/hcid -
root	5730	0.0	0.0	0		?	S<	08:50		[btaddconn]
root root	5732 5744	0.0	0.0	0 13428	0 1352	; ;	S<	08:50 08:50	0:00	[btdelconn]
/usr/lib/b	luetoc	oth/bl	ueto	othd-se	rvi					
root /usr/lib/b	5745	0.0 hth/bl	0.0	13352 othd-se	1140 rvi	?	S	08:50	0:00	
root	5755	0.0	0.0	0	0	?	S<	08:50	0:00	[krfcommd]
root	5791	0.0	0.0	116168	1860		Ss	08:50	0:00	/usr/sbin/gdm
nagios /usr/sbin/	5847 nagios	0.0 s2 -d	0.0 /etc	34276 nagios!	1852 2/n	f	SNsl	08:50	0:00	
daemon	5884	0.0	0.0	16428	432		Ss	08:50		/usr/sbin/atd
root www-data	5898 5929	0.0	0.0	18616 58976	980 2380		Ss S	08:50 08:50	0:00	/usr/sbin/cron
/usr/sbin/	lightt	cpd -f	/et	c/light	tpd					
www-data www-data	5940 5967	0.0	0.2	83492 83492	6124 6124		Ss Ss	08:50 08:50		<pre>/usr/bin/php-cgi /usr/bin/php-cgi</pre>
root	6016	0.0	0.2	3864		? ttyl	Ss Ss+	08:50		/usr/bin/pnp-cgi /sbin/getty
38400 tty1	-									
www-data www-data	6022 6023	0.0	0.1	83492 83492	2764 2764		S S	08:50 08:50		<pre>/usr/bin/php-cgi /usr/bin/php-cgi</pre>
www-data	6024	0.0	0.1	83492	2764	?	S	08:50	0:00	/usr/bin/php-cgi
www-data	6025	0.0	0.1	83492	2764		S	08:50		/usr/bin/php-cgi
www-data www-data	6026 6027	0.0	0.1	83492 83492	2764 2764		S S	08:50 08:50		/usr/bin/php-cgi /usr/bin/php-cgi
www-data	6028	0.0	0.1	83492	2764		S	08:50		/usr/bin/php-cgi

www-data	6029	0.0	0.1	83492	2764	?	S	08:50	0:00	/usr/bin/php-cgi
root	6058	0.0	0.0	116168	1840	?	T	08:50	0:00	/usr/sbin/gdm
root	6062	0.0	0.0	0	0	?	Z	08:50	0:00	[kill] <defunct></defunct>
root	6102	0.0	0.0	17336	920	?	S	08:50	0:00	xinit
/etc/gdm/	failsa	feXin	it /e	tc/X						
root	6104	0.0	0.3	76076	7644	tty7	S <s+< td=""><td>08:50</td><td>0:01</td><td>/usr/bin/X :0 -</td></s+<>	08:50	0:01	/usr/bin/X :0 -
auth /var	/lib/g	dm/:0								
root	6111	0.0	0.0	3944	584	?	S	08:51	0:00	/bin/sh
/etc/gdm/	failsa	feXin:	it /e	tc						
root	6112	0.0	0.2	126768	5000	?	S	08:51	0:00	/usr/bin/gksu -u
root /usr	/bin/x	fai								
root	6114	0.0	0.2	41308	5516	?	S	08:51	0:00	
/usr/lib/	libgco	nf2-4,	/gcon	fd-2 5						
neo	6115	0.0	0.1	20944	3888	ttyS0	S	08:51	0:00	-bash
root	6131	0.0	1.0	156296	21096	?	S	08:51	0:00	/usr/bin/python
/usr/bin/	xfails	afed								
neo	6164	0.0	0.1	74896	3664	?	S	08:52	0:00	/usr/sbin/smbd -
D										
neo	7949	0.0	0.0	8696	1268	ttyS0	S+	11:19	0:00	man ps
neo	7957	0.0	0.0	9552	1008	ttyS0	S+	11:19	0:00	pager -s
root	7971	0.0	0.1	70028	3028	?	Ss	11:20	0:00	sshd: neo [priv]
neo	7978	0.0	0.0	70028	1716	?	S	11:20	0:00	sshd: neo@pts/0
neo	7979	0.2	0.1	20944	3852	pts/0	Ss	11:20	0:00	-bash
neo	8006	0.0	0.0	15064	1092	pts/0	R+	11:22	0:00	ps aux

ps ax

```
neo@netkiller:~$ ps ax
              STAT TIME COMMAND
  PID TTY
   1 ?
                      0:01 /sbin/init
              Ss
    2 ?
              S<
                      0:00 [kthreadd]
    3 ?
              S<
                      0:00 [migration/0]
                      0:00 [ksoftirqd/0]
              S<
             S<
   5 ?
                      0:00 [watchdog/0]
    6
                      0:00 [migration/1]
             S<
   7 ?
                      0:00 [ksoftirqd/1]
             S<
   8 ?
                      0:00 [watchdog/1]
   9
     ?
                      0:00 [migration/2]
             S<
   10 ?
                      0:00 [ksoftirqd/2]
             S<
   11 ?
                      0:00 [watchdog/2]
   12 ?
                      0:00 [migration/3]
             S<
   13 ?
                     0:00 [ksoftirqd/3]
             S<
   14 ?
                      0:00 [watchdog/3]
   15
     ?
              S<
                      0:00 [events/0]
             S<
   16 ?
                      0:00 [events/1]
             S<
   17 ?
                      0:00 [events/2]
   18
              S<
                      0:00 [events/3]
              S<
                      0:00 [khelper]
   19 ?
             S<
   54 ?
                      0:00 [kblockd/0]
   55
              S<
                      0:00 [kblockd/1]
             S<
   56 ?
                      0:00 [kblockd/2]
             S<
   57 ?
                      0:00 [kblockd/3]
   60
              S<
                      0:00 [kacpid]
             S<
                     0:00 [kacpi_notify]
  61 ?
             S<
 136 ?
                      0:00 [kseriod]
 193 ?
              S
                      0:00 [pdflush]
             S
 194 ?
                      0:00 [pdflush]
 195 ?
             S<
                      0:00 [kswapd0]
  238 ?
              S<
                      0:00 [aio/0]
              S<
  239 ?
                      0:00 [aio/1]
 240 ?
             S<
                      0:00 [aio/2]
 241 ?
              S<
                      0:00 [aio/3]
              S<
1468 ?
                      0:00 [ksuspend_usbd]
1471 ?
             S<
                      0:00 [khubd]
 1559 ?
              S<
                      0:00 [ata/0]
              S<
1560 ?
                      0:00 [ata/1]
1561 ?
             S<
                      0:00 [ata/2]
              S<
S<
 1562 ?
                      0:00 [ata/3]
1563 ?
                      0:00 [ata_aux]
1743 ?
             S<
                      0:00 [scsi_eh_0]
              S<
                      0:00 [scsi_eh_1]
1744 ?
1878 ?
                      0:00 [scsi_eh_2]
1879 ?
             S<
                      0:00 [scsi_eh_3]
                      0:00 [kjournald]
 2508 ?
              S<
 2707 ?
               S<s
                      0:00 /sbin/udevd --daemon
 3055 ?
              S<
                      0:00 [kpsmoused]
                    0:00 [kpsmoused]
0:00 dhclient3 -e IF_METRIC=100 -pf
 4223 ?
              S<s
/var/run/dhclient.eth0.pid -lf /var/lib/dh
                    0:00 [kjournald]
              S<
```

```
4585 tty4 Ss+ 0:00 /sbin/getty 38400 tty4
                    Ss+ 0:00 /sbin/getty 38400 tty5
 4586 tty5
                     Ss+
Ss+
 4588 tty2
                                  0:00 /sbin/getty 38400 tty2
                                 0:00 /sbin/getty 38400 tty3
 4591 tty3
 4592 ttyS0 Ss 0:00 /bin/login --
 4792 ?
                       Ss
                                  0:00 /usr/sbin/acpid -c /etc/acpi/events -s
/var/run/acpid.socket
 4859 ?
               S<
                                  0:00 [kondemand/0]
                      S<
 4860 ?
                                  0:00 [kondemand/1]
            S< 0:00 [kondemand/1]
S< 0:00 [kondemand/2]
S< 0:00 [kondemand/3]
Ss 0:00 /sbin/syslogd -u syslog
S 0:00 /bin/dd bs 1 if /proc/kmsg of /var/run/klogd/kmsg
Ss 0:00 /sbin/klogd -P /var/run/klogd/kmsg
Ss 0:00 /usr/bin/dbus-daemon --system
Ss 0:00 /usr/sbin/NetworkManager --pid-file
 4861 ?
 4862 ?
 4926 ?
 4980 ?
 4982 ?
 5004 ?
 5020 ?
/var/run/NetworkManager/NetworkManage
               Ss 0:00 /usr/sbin/NetworkManagerDispatcher --pid-file
 5034 ?
/var/run/NetworkManager/Net
 5047 ? Ss 0:00 /usr/bin/system-tools-backends
                      Ss
 5069 ?
                                  0:00 /usr/sbin/sshd
            Ss 0:00 avahi-daemon: running [netk. Ss 0:00 avahi-daemon: chroot helper S 0:01 /usr/lib/postsware///
 5090 ?
                                  0:00 avahi-daemon: running [netkiller.local]
 5091 ?
                                  0:01 /usr/lib/postgresql/8.3/bin/postgres -D
 5117 ?
/var/lib/postgresql/8.3/main -c c
/var/lib/postgresq1/8.3/main -c c

5121 ? Ss 0:00 postgres: writer process

5122 ? Ss 0:00 postgres: wal writer process

5123 ? Ss 0:00 postgres: autovacuum launcher proc

5124 ? Ss 0:00 postgres: stats collector process

5167 ? Ss 0:00 /usr/sbin/cupsd

5423 ? Ss 0:00 /usr/sbin/exim4 -bd -q30m

5431 ? S 0:00 /usr/bin/perl -w /usr/bin/gnump3d

5481 ? S 0:00 /usr/bin/rsync --no-detach --daemo
                                   0:00 postgres: autovacuum launcher process
                                 0:00 /usr/bin/rsync --no-detach --daemon --config
/etc/rsyncd.conf
 5500 ? Ss
                                 0:00 /usr/sbin/nmbd -D
                     Ss 0:00 /usr/sbin/smbd -D
Ss 0:00 /usr/sbin/xinetd -pidfile /var/run/xinetd.pid -
 5502 ?
 5573 ?
stayalive -inetd_compat
                Ss 0:00 /usr/sbin/dhcdbd --system
Ss 0:00 /usr/sbin/hald
                     Ss 0:00 /usr/sbin/hald
Ssl 0:00 /usr/sbin/console-kit-daemon
S 0:00 hald-runner
S 0:00 /usr/sli
 5574 ?
 5596 ?
 5658 ?
                      S
S
 5660 ?
                                  0:00 /usr/sbin/smbd -D
                                 0:00 hald-addon-input: Listening on /dev/input/event3
 5690 ?
/dev/input/event2
 5693 ?
                      S
                                  0:00 hald-addon-acpi: listening on acpid socket
/var/run/acpid.socket
 5722 ? Ss 0:00 /usr/sbin/hcid -x -s
5730 ? S< 0:00 [btaddconn]
5732 ? S< 0:00 [btdelconn]
5744 ? S 0:00 /usr/lib/bluetooth/bluetoothd-service-audio
5745 ? S 0:00 /usr/lib/bluetooth/bluetoothd-service-input
                    S 0:00 /usr/112, S< 0:00 [krfcommd]
Ss 0:00 /usr/sbin/gdm
 5745 ?
                                  0:00 /usr/lib/bluetooth/bluetoothd-service-input
                   S< 0:00 [krrcommu]
Ss 0:00 /usr/sbin/gdm
SNsl 0:00 /usr/sbin/nagios2 -d /etc/nagios2/nagios.cfg
Ss 0:00 /usr/sbin/atd
Ss 0:00 /usr/sbin/cron
S 0:00 /usr/sbin/lighttpd -f /etc/lighttpd/lighttpd
 5755 ?
 5791 ?
 5847 ?
 5884 ?
5884 :
5898 ? Ss 0:00 /usr/sbin/lighttpd -r /
5929 ? S 0:00 /usr/sbin/lighttpd -r /
5940 ? Ss 0:00 /usr/bin/php-cgi
5967 ? Ss 0:00 /usr/bin/php-cgi
6016 ttyl Ss+ 0:00 /sbin/getty 38400 ttyl
6022 ? S 0:00 /usr/bin/php-cgi
6023 ? S 0:00 /usr/bin/php-cgi
6024 ? S 0:00 /usr/bin/php-cgi
6025 ? S 0:00 /usr/bin/php-cgi
6026 ? S 0:00 /usr/bin/php-cgi
6027 ? S 0:00 /usr/bin/php-cgi
6028 ? S 0:00 /usr/bin/php-cgi
6029 ? S 0:00 /usr/bin/php-cgi
6029 ? S 0:00 /usr/bin/php-cgi
6058 ? T 0:00 /usr/sbin/gdm
7 0:00 [kill] <defunct>
                                  0:00 /usr/sbin/lighttpd -f /etc/lighttpd/lighttpd.conf
                             0:00 /usi, 0:00 [kill] <defunct>
0:00 xinit /etc/gdm/failsafeXinit

0:00 xinit /etc/gdm/failsafeXinit
 6102 ?
                      S
/etc/X11/xorg.conf.failsafe with-gdm -- /usr
 6104 tty7 S<s+ 0:01 /usr/bin/X :0 -auth /var/lib/gdm/:0.Xauth -nolisten
tcp vt7 -br -once -co
                                  0:00 /bin/sh /etc/gdm/failsafeXinit
 6111 ?
              S
/etc/X11/xorg.conf.failsafe with-gdm
 6112 ? S 0:00 /usr/bin/gksu -u root /usr/bin/xfailsafedialog
 6114 ? S
6115 ttyS0 S
6131 ? S
 6114 ?
                                  0:00 /usr/lib/libgconf2-4/gconfd-2 5
                                  0:00 -bash
 6131 ?
                                 0:00 /usr/bin/python /usr/bin/xfailsafedialog
                             0:00 /usr/sbin/smbd -D
 6164 ?
                     S
 7949 ttyS0
                       S+
                                   0:00 man ps
 7957 ttyS0 S+ 0:00 pager -s
```

```
7971 ? Ss 0:00 sshd: neo [priv]
7978 ? S 0:00 sshd: neo@pts/0
7979 pts/0 Ss 0:00 -bash
7997 pts/0 R+ 0:00 ps ax
```

ps axww

```
$ ps axww
  PID TTY
                  STAT TIME COMMAND
                   Ss
                             0:01 /sbin/init
                  S<
                             0:00 [kthreadd]
                  S<
     3 ?
                             0:00 [migration/0]
                  S<
                             0:00 [ksoftirqd/0]
                             0:00 [watchdog/0]
     5 ?
                         0:00 [migration/1]
0:00 [ksoftirqd/1]
0:00 [watchdog/1]
0:00 [migration/2]
0:00 [ksoftirqd/2]
0:00 [watchdog/2]
0:00 [migration/3]
0:00 [ksoftirqd/3]
0:00 [watchdog/3]
0:00 [events/0]
0:00 [events/0]
0:00 [events/2]
0:00 [events/3]
0:00 [khelper]
0:00 [kblockd/0]
0:00 [kblockd/1]
0:00 [kblockd/1]
0:00 [kblockd/3]
0:00 [kacpid]
0:00 [kacriod]
0:00 [pdflush]
0:00 [pdflush]
     6 ?
                  S<
                             0:00 [migration/1]
                  S<
     8 ?
                S < S < S <
     9 ?
    10 ?
    11 ?
                 S<
    12 ?
                  S<
    13 ?
    14 ?
                S < S < S <
    15 ?
    16 ?
    17 ?
                S<
S<
    18 ?
                 S<
    19 ?
    54 ?
               55 ?
    56 ?
    57 ?
    60 ?
   61 ?
                             0:00 [kacpi_notify]
  136 ?
  193 ?
                          0:00 [pdflus]
0:00 [kswapd]
0:00 [aio/0]
0:00 [aio/1]
0:00 [aio/2]
0:00 [aio/3]
0:00 [ksuspe]
0:00 [khubd]
  194 ?
                             0:00 [pdflush]
  195 ?
                             0:00 [kswapd0]
  238 ?
  239 ?
  240 ?
                 S<
  241 ?
               S<
S<
 1468 ?
                             0:00 [ksuspend_usbd]
 1471 ?
                             0:00 [khubd]
                  S<
 1559 ?
                           0:00 [ata/0]
                S <
S <
S <
                          0:00 [ata/1]
0:00 [ata/2]
0:00 [ata/3]
 1560 ?
 1561 ?
 1562 ?
               S<
S<
                          0:00 [ata_aux]
0:00 [scsi_eh_0]
0:00 [scsi_eh_1]
0:00 [scsi_eh_2]
0:00 [scsi_eh_3]
0:00 [kjournald]
 1563 ?
 1743 ?
 1744 ?
 1878 ?
                  S<
                  S<
 1879 ?
 2508 ?
 2707 ?
                  S<s 0:00 /sbin/udevd --daemon
                 S<
S<s
                         0:00 [kpsmoused]
0:00 dhclient3 -e IF_METRIC=100 -pf
 3055 ?
 4223 ?
/var/run/dhclient.eth0.pid -lf /var/lib/dhcp3/dhclient.eth0.leases eth0
              S< 0:00 [kjournald]
Ss+ 0:00 /sbin/getty 38400 tty4
 4311 ?
 4585 tty4
 4586 tty5
                  Ss+
                         0:00 /sbin/getty 38400 tty5
                             0:00 /sbin/getty 38400 tty2
0:00 /sbin/getty 38400 tty3
 4588 tty2
                   Ss+
 4591 tty3
                   Ss+
 4592 ttyS0 Ss
                             0:00 /bin/login --
 4792 ?
                             0:00 /usr/sbin/acpid -c /etc/acpi/events -s
                   Ss
/var/run/acpid.socket
 4859 ? S<
                             0:00 [kondemand/0]
                  S<
                             0:00 [kondemand/1]
 4860 ?
                             0:00 [kondemand/2]
 4861 ?
                  S<
 4862 ?
                             0:00 [kondemand/3]
                  Ss
S
 4926 ?
                             0:00 /sbin/syslogd -u syslog
                             0:00 /bin/dd bs 1 if /proc/kmsg of /var/run/klogd/kmsg
 4980 ?
                  Ss
                             0:00 /sbin/klogd -P /var/run/klogd/kmsg
 4982 ?
                  Ss 0:00 /usr/bin/dbus-daemon --system
Ss 0:00 /usr/sbin/NetworkManager --pid-file
 5004 ?
 5020 ?
/var/run/NetworkManager/NetworkManager.pid
 5034 ? Ss 0:00 /usr/sbin/NetworkManagerDispatcher --pid-file
/var/run/NetworkManager/NetworkManagerDispatcher.pid
                   Ss 0:00 /usr/bin/system-tools-backends
```

```
Ss 0:00 avahi-daemon: running [netkiller.local]
Ss 0:00 avahi-daemon: chroot bolton
          Ss 0:00 /usr/sbin/sshd
5069 ?
 5090 ?
                Ss
 5091 ?
                S
 5117 ?
                          0:01 /usr/lib/postgresql/8.3/bin/postgres -D
/var/lib/postgresq1/8.3/main -c
config_file=/etc/postgresql/8.3/main/postgresql.conf
                          0:00 postgres: writer process
 5121 ?
                Ss
 5122 ?
                          0:00 postgres: wal writer process
                Ss
                Ss
Ss
 5123 ?
                          0:00 postgres: autovacuum launcher process
               Ss 0:00 postgres: autovacuum launcher process
Ss 0:00 postgres: stats collector process
Ss 0:00 /usr/sbin/cupsd
Ss 0:00 /usr/sbin/exim4 -bd -q30m
S 0:00 /usr/bin/perl -w /usr/bin/gnump3d
5124 ?
5167 ?
5423 ?
5431 ?
5481 ? S
                        0:00 /usr/bin/rsync --no-detach --daemon --config
/etc/rsyncd.conf
          Ss
 5500 ?
                         0:00 /usr/sbin/nmbd -D
                       0:00 /usr/sbin/smbd -D
0:00 /usr/sbin/xinetd -pidfile /var/run/xinetd.pid -
5502 ?
                Ss
5573 ?
                Ss
stayalive -inetd_compat
5574 ?
            Ss 0:00 /usr/sbin/dhcdbd --system
 5593 ?
                 Ss
                         0:00 /usr/sbin/hald
                 Ssl 0:00 /usr/spc...
S 0:00 hald-runner
 5596 ?
                          0:00 /usr/sbin/console-kit-daemon
                S
5658 ?
                S
S
 5660 ?
                         0:00 /usr/sbin/smbd -D
 5690 ?
                          0:00 hald-addon-input: Listening on /dev/input/event3
/dev/input/event2
                         0:00 hald-addon-acpi: listening on acpid socket
5693 ?
                S
/var/run/acpid.socket
                       0:00 [btaddconn]
5722 ? Ss
                        0:00 /usr/sbin/hcid -x -s
                S<
5730 ?
 5732 ?
                S
 5744 ?
                        0:00 /usr/lib/bluetooth/bluetoothd-service-audio
                S
S<
 5745 ?
                          0:00 /usr/lib/bluetooth/bluetoothd-service-input
                          0:00 [krfcommd]
 5755 ?
                Ss
                         0:00 /usr/sbin/qdm
 5791 ?
5847 ?
               SNsl 0:00 /usr/sbin/nagios2 -d /etc/nagios2/nagios.cfg
                Ss 0:00 /usr/sbin/atd
Ss 0:00 /usr/sbin/cron
 5884 ?
 5898 ?
 5929 ?
                S
                         0:00 /usr/sbin/lighttpd -f /etc/lighttpd/lighttpd.conf
                Ss 0:00 /usr/bin/php-cgi
Ss 0:00 /usr/bin/php-cgi
 5940 ?
 5967 ?
              Ss+ 0:00 /sbin/getty 38400
S 0:00 /usr/bin/php-cgi
T 0:00 /usr/bin/gdm
Z 0:00 [kill] <defunct>
S 0:00 xinit /etc/gdm/fa
 6016 tty1
               Ss+ 0:00 /sbin/getty 38400 tty1
 6022 ?
6023 ?
 6024 ?
 6025 ?
 6026 ?
 6027 ?
 6028 ?
6029 ?
 6058 ?
 6062 ?
                          0:00 xinit /etc/gdm/failsafeXinit
 6102 ?
/etc/X11/xorg.conf.failsafe with-gdm -- /usr/bin/X :0 -auth /var/lib/gdm/:0.Xauth
-nolisten tcp vt7 -br -once -config /etc/X11/xorg.conf.failsafe 6104 tty7 S<s+ 0:01 /usr/bin/X :0 -auth /var/lib/gdm/:0.Xauth -nolisten
tcp vt7 -br -once -config /etc/X11/xorg.conf.failsafe
                         0:00 /bin/sh /etc/gdm/failsafeXinit
6111 ?
               S
/etc/X11/xorg.conf.failsafe with-gdm
6112 ? S 0:00 /usr/bin/gksu -u root /usr/bin/xfailsafedialog
              S
S
                         0:00 /usr/lib/libgconf2-4/gconfd-2 5
 6114 ?
                         0:00 -bash
 6115 ttyS0
                S
6131 ?
                        0:00 /usr/bin/python /usr/bin/xfailsafedialog
                S
                         0:00 /usr/sbin/smbd -D
 6164 ?
                          0:00 man ps
 7949 ttyS0
                 S+
                S+ 0:00 pager -s
Ss 0:00 sshd: nec
 7957 ttyS0 S+
 7971 ?
                         0:00 sshd: neo [priv]
0:00 sshd: neo@pts/0
 7978 ?
                 S
                       0:00 -bash
 7979 pts/0 Ss
 8012 pts/0 R+
                        0:00 ps axww
```

ps auxf

```
www-data 18743 0.0 0.1 82520 3776 ? S< 11:18 0:02
/usr/sbin/lighttpd -f /etc/lighttpd/lighttpd.conf
www-data 18744 0.0 0.4 240904 9376 ? S<s 11:18 0:00 \_
/usr/bin/php-cgi
www-data 18748 0.0 0.2 240904 4296 ? S< 11:18 0:00 \_</pre>
```

```
/usr/bin/php-cgi
www-data 18749 0.0 0.2 240904 4296 ? S< 11:18 0:00 \_
/usr/bin/php-cgi
www-data 18750 0.0 0.2 240904 4296 ? S< 11:18 0:00 \_
/usr/bin/php-cgi
```

2.1. ps axef

```
[root@development ~]# ps -ef
UID PID PPID C STIME TTY TIME CMD
```

```
# ps axef
```

2.2. ps -eo pid,cmd

```
$ ps -eo pid,cmd
```

2.3. ps jax

2.3. ps je							
# ps ja							
PPID	PID	PGID	SID TTY	TPGID STAT	UID		COMMAND
0	1	1	1 ?	-1 Ss	0		/sbin/init
0	2	0	0 ?	-1 S	0	0:00	[kthreadd]
2	3	0	0 ?	-1 S	0		[ksoftirqd/0]
2	4	0	0 ?	-1 S	0		[migration/0]
2	5	0	0 ?	-1 S	0		[watchdog/0]
2	6	0	0 ?	-1 S	0		[migration/1]
2	7	0	0 ?	-1 S	0		[ksoftirqd/1]
2	8	0	0 ?	-1 S	0		[watchdog/1]
2	9	0	0 ?	-1 S	0		[migration/2]
2	10	0	0 ?	-1 S	0		[ksoftirqd/2]
2	11	0	0 ?	-1 S	0		[watchdog/2]
2	12	0	0 ?	-1 S	0		[migration/3]
2	13	0	0 ?	-1 S	0		[ksoftirqd/3]
2	14	0		-1 S -1 S	0		[watchdog/3]
2 2	15 16	0	0 ?	-1 S -1 S	0		[events/0]
2	17	0	0 ?	-1 S -1 S	0		[events/1]
2	18	0	0 ?	-1 S -1 S	0		[events/2]
2	19	0	0 ?		0		[events/3] [cpuset]
2	20	0	0 ?	-1 S -1 S	0		[khelper]
2	21			-1 S -1 S		9:49	-
2	22	0		-1 S -1 S	0		[netns]
2	23	0	0 ?		0	0:00	[async/mgr]
2		0		-1 S -1 S	0		[pm]
2	25 26	0	0 ?	-1 S -1 S	0	0:43	[sync_supers]
2	26 27	0	0 ?	-1 S -1 S	0		<pre>[bdi-default] [kintegrityd/0]</pre>
2	28	0	0 ?	-1 S -1 S	0		[kintegrityd/1]
2	26 29	0	0 ?	-1 S -1 S	0		[kintegrityd/2]
2	30	0	0 ?	-1 S	0		[kintegrityd/3]
2	31	0	0 ?	-1 S	0		[kblockd/0]
2	32	0	0 ?	-1 S	0		[kblockd/1]
2	33	0	0 ?	-1 S	0		[kblockd/2]
2	34	0	0 ?	-1 S	0		[kblockd/3]
2	35	0	0 ?	-1 S	0		[kacpid]
2	36	0	0 ?	-1 S	0		[kacpi_notify]
2	37	0	0 ?	-1 S	0		[kacpi_hotplug]
2	38	0	0 ?	-1 S	0		[ata_aux]
2	39	0	0 ?	-1 S	0		[ata_sff/0]
2	40	0	0 ?	-1 S	0		[ata_sff/1]
2	41	0	0 ?	-1 S	0		[ata_sff/2]
2	42	0	0 ?	-1 S	0		[ata_sff/3]
2	43	0	0 ?	-1 S	0		[khubd]
2	44	0	0 ?	-1 S	0		[kseriod]
2	45	0	0 ?	-1 S	0		[kmmcd]
2	46	0	0 ?	-1 S	0		[khungtaskd]
2	47	0	0 ?	-1 S			[kswapd0]
2	48	0	0 ?	-1 SN	0		[ksmd]
2	49	0	0 ?	-1 S	0		[aio/0]
2	50	0	0 ?	-1 S	0		[aio/1]
2	51	0	0 ?	-1 S	0		[aio/2]
2	52	0	0 ?	-1 S	0		[aio/3]
_		•		= =			/ - -

```
-1 S 0
-1 S 0
   2
        53
               0
                   0 ?
                                                   0:00 [ecryptfs-kthrea]
   2
        54
                     0 ?
                                                   0:00 [crypto/0]
               0
                                   -1 S
   2.
        55
               0
                     0 ?
                                               0
                                                   0:00 [crypto/1]
    2
                     0 ?
                                   -1 S
                                                   0:00 [crypto/2]
         56
               0
                                               0
        57
                                                   0:00 [crypto/3]
                                   -1 S
    2
               0
                     0 ?
                                              0
                                              0
   2
        62
               0
                     0 ?
                                   -1 S
                                                   0:00 [scsi_eh_0]
    2
                     0 ?
                                   -1 S
                                                   0:00 [scsi_eh_1]
         63
               0
                                               0
                                   -1 S
                                              0
                                                   0:00 [kstriped]
   2
        66
               0
                    0 ?
                                   -1 S
   2
        67
               0
                    0 3
                                               0
                                                   0:00 [kmpathd/0]
                     0 ?
                                   -1 S
    2
        68
               0
                                               0
                                                   0:00 [kmpathd/1]
                                   -1 S
                                               0
                                                   0:00 [kmpathd/2]
    2
        69
               0
                     0 ?
                                              0
    2
        70
               0
                    0 ?
                                   -1 S
                                                   0:00 [kmpathd/3]
                     0 ?
                                   -1 S
    2
         71
               0
                                               0
                                                   0:00 [kmpath_handlerd]
                                   -1 S
                                              0
        72
                    0 ?
                                                   0:00 [ksnapd]
    2
               0
    2
        73
               0
                    0 3
                                   -1 S
                                               0
                                                   0:00 [kondemand/0]
                     0 ?
    2
         74
               0
                                   -1 S
                                               0
                                                   0:00 [kondemand/1]
                     0 ?
                                   -1 S
                                                   0:00 [kondemand/2]
    2
        75
                                               0
               0
    2
        76
               0
                    0 ?
                                   -1 S
                                              0
                                                   0:00 [kondemand/3]
                                   -1 S
    2
         77
               0
                     0 ?
                                               0
                                                   0:00 [kconservative/0]
                                              0
                                   -1 S
                    0 ?
    2
        78
               0
                                                   0:00 [kconservative/1]
    2
        79
               0
                    0 ?
                                   -1 S
                                              0
                                                   0:00 [kconservative/2]
    2
        80
               0
                     0 ?
                                   -1 S
                                               0
                                                   0:00 [kconservative/3]
                                   -1 S
                     0 ?
                                                   0:00 [scsi_eh_2]
    2
       205
               0
                                               0
    2
       255
               0
                    0 ?
                                   -1 S
                                              0
                                                   0:00 [scsi_eh_3]
   2
       283
               0
                     0 ?
                                   -1 S
                                               0
                                                   0:00 [usbhid resumer]
                                              0
                    0 ?
                                   -1 S
   2
       289
               0
                                                   4:24 [jbd2/sda1-8]
                    0 ?
               0
                                   -1 S
                                                   0:00 [ext4-dio-unwrit]
    2
       290
                                               0
               0
                     0 ?
                                   -1 S
                                                   0:00 [ext4-dio-unwrit]
    2
       291
                                               0
    2
       292
               0
                     0 ?
                                   -1 S
                                               0
                                                   0:00 [ext4-dio-unwrit]
              0
                     0 ?
       293
                                   -1 S
                                                   0:00 [ext4-dio-unwrit]
    2
                                               0
                   336 ?
                                   -1 S
   1
       337
             336
                                               0
                                                   0:31 upstart-udev-bridge --
daemon
                   343 ?
                                   -1 S<s
                                              0
                                                   0:20 udevd --daemon
   1
       343
             343
                  0 ?
             0
                                   -1 S
   2
       598
                                               0
                                                   0:00 [kpsmoused]
                                   -1 S
                                                   8:21 [edac-poller]
   2
       603
               0
                     0 ?
                                               0
                                   -1 Ss
       675
   1
             675
                   675 ?
                                              1
                                                   0:00 portmap
             0
                   0 ?
                                   -1 S
                                                   0:00 [radeon/0]
   2
       692
                                               0
                                   -1 S
   2
       693
               0
                                               0
                                                   0:00 [radeon/1]
             0 0 3
                                   -1 S
   2
       694
                                               0
                                                   0:00 [radeon/2]
                                   -1 S
                                              0
   2.
       695
                                                   0:00 [radeon/3]
    2
       697
                                   -1 S
                                               0
                                                   0:00 [ttm_swap]
                                   -1 Ss
-1 S
   1
       698
             698 698 ?
                                             112
                                                   0:00 rpc.statd -L
                   0 ?
             0
                                   -1 S
   2.
       700
                                             0
                                                   0:00 [rpciod/0]
                                   -1 S
    2
       701
               0
                     0 ?
                                               0
                                                   0:00 [rpciod/1]
                                   -1 S
   2
       702
              0
                    0 ?
                                                   0:00 [rpciod/2]
                                              0
              0
                    0 3
                                   -1 S
   2.
       703
                                              0
                                                   0:00 [rpciod/3]
    2
       714
               0
                     0 ?
                                   -1 S<
                                               0
                                                   0:25 [kslowd000]
    2
       715
                    0 ?
                                   -1 S<
                                              0
                                                   0:20 [kslowd001]
               0
                                              0 102:38 [flush-8:0]
   2
       814
               0
                    0 3
                                   -1 S
    2
       823
               0
                     0 ?
                                   -1 S
                                               0 12:12 [jbd2/sda3-8]
                                              0
                                   -1 S
       824
                    0 ?
                                                  0:00 [ext4-dio-unwrit]
    2
               0
                                              0
                                   -1 S
                                                  0:00 [ext4-dio-unwrit]
   2
       825
              0
                    0 3
    2
               0
                     0
                       ?
                                   -1 S
       826
                                               0
                                                   0:00 [ext4-dio-unwrit]
                                              0
                                                  0:00 [ext4-dio-unwrit]
                                   -1 S
    2
       827
               0
                    0 ?
                                              0 30:54 [jbd2/sdb1-8]
                                   -1 S
    2
       880
               0
                    0 ?
                     0 ?
    2
               0
                                   -1 S
       881
                                               0
                                                   0:00 [ext4-dio-unwrit]
                                              0
                                   -1 S
    2
       882
               0
                    0 ?
                                                   0:00 [ext4-dio-unwrit]
                                   -1 S
                    0 ?
             0
                                              0
   2
       883
                                                   0:00 [ext4-dio-unwrit]
               0
    2
       884
                     0 ?
                                   -1 S
                                               0
                                                   0:00 [ext4-dio-unwrit]
                                   -1 Sl
       944
   1
             894
                   894 ?
                                             101
                                                   2:08 rsyslogd -c4
   2
       958
              0
                    0 ?
                                   -1 S
                                              0
                                                   0:00 [nfsiod]
   1
       960
             960
                   960 ?
                                   -1 Ss
                                               0
                                                   0:40 /usr/sbin/sshd
                                   -1 Ss
                                                   0:02 rpc.idmapd
   1
       972
             972
                   972 ?
                                               0
   1
       975
             975
                   975 tty4
                                  975 Ss+
                                               0
                                                   0:00 /sbin/getty -8 38400
tty4
   1
       992
             992
                   992 tty5
                                  992 Ss+
                                               Ω
                                                   0:00 /sbin/getty -8 38400
tty5
   1
       997
             997
                   997 tty3
                                  997 Ss+
                                              0
                                                   0:00 /sbin/getty -8 38400
tty3
   1 1000
           1000 1000 tty6
                                 1000 Ss+
                                              0
                                                   0:00 /sbin/getty -8 38400
ttv6
                                   -1 Ss
   1 1009
                                                   0:00 atd
           1009
                  1009 ?
                                               1
                                            106 20:42 /usr/sbin/nrpe -c
   1 1058 1058
                                   -1 Ss
                  1058 ?
/etc/nagios/nrpe.cfg -d
   1 1081 1081 1081 ?
                                   -1 Ss
                                               0 14:35 /usr/sbin/munin-node
                   0 ?
    2 1087
             0
                                   -1 S
                                                  0:00 [lockd]
     1088
1089
                     0 ?
                                   -1 S
   2
               0
                                               0
                                                   0:06 [nfsd4]
    2
               0
                     0 ?
                                   -1 S
                                               0
                                                   0:00 [nfsd4_callbacks]
                                   -1 S
     1090
               0
                    0 ?
                                               0
                                                   1:29 [nfsd]
                     0 ?
                                                   1:29 [nfsd]
    2
      1091
               0
                                   -1 S
                                               0
      1092
    2
               0
                     0 ?
                                   -1 S
                                               0
                                                   1:34 [nfsd]
                                   -1 S
      1093
               0
                    0 ?
                                               0
                                                   1:35 [nfsd]
    2.
      1094
               0
                     0 ?
                                   -1 S
                                               0
                                                   1:31 [nfsd]
                                   -1 S 0 1:31 [nfsd]
-1 S 0 1:31 [nfsd]
   2 1095
            0 0 ?
```

```
2 1096 0 0 ?
2 1097 0 0 ?
1 1101 1101 1101 ?
                                                   -1 S 0 1:30 [nfsd]
-1 S 0 1:30 [nfsd]
                                                                         0:11 /usr/sbin/rpc.mountd --
                                                   -1 Ss
                                                                   0
manage-gids
                                                                105 39:47 /usr/sbin/snmpd -Lsd -Lf
    1 1500 1499 1499 ?
                                                   -1 S
/dev/null -u snmp -g snmp -I -smux -p /var/run/snmpd.pid
1 2066 2066 2066 tty2 2066 Ss+ 0 0:00
                                                                         0:00 /sbin/getty -8 38400
     1 2068 2068 2068 ttv1
                                                2068 Ss+
                                                                         0:00 /sbin/getty -8 38400
                                                                   Ω
tty1
                                                   -1 Ss 0 0:15 /usr/spin/vsitpu
-1 Ss 0 0:00 /bin/sh -c test -x
    1 5243 5243 5243 ?
1 5243 5243 5245 1 1 6058 6058 6058 ? -1 Ss U U.UU / DIII, DIII / Usr/sbin/anacron || ( cd / && run-parts --report /etc/cron.daily )

6050 6060 6058 6058 ? -1 S U 0:00 run-parts --report
 6060 6062 6058
                          6058 ?
                                                    -1 Z
                                                                          0:00 [apt] <defunct>
                                                   0
    1 8627 8627 8627 ?
1 8674 8674 8674 ?
1 9027 9027 9027 ?
2 12690 0 0 ?
2 12691 0 0 ?
2 12693 0 0 ?
2 12694 0 0 ?
2 12696 0 0 ?
2 12697 0 0 ?
2 12698 0 0 ?
2 12699 0 0 ?
2 12700 0 0 ?
2 12701 0 0 ?
2 12702 0 0 ?
2 12711 0 0 ?
2 12712 0 0 ?
2 12714 0 0 ?
2 12715 0 0 ?
1 13841 13841 13841 ?
    1 8627 8627 8627 ?
                                                  1
-1 St
-1 Ss
-1 S
-1 S
-1 S
-1 S
-1 S
-1 S
                                                                  0 0:00 [xfslogd/0]
                                                                    0
                                                                          0:00 [xfsload/1]
                                                                0 0:00 [xfslogd/1]
0 0:00 [xfslogd/2]
0 0:00 [xfslogd/3]
0 0:00 [xfsdatad/0]
0 0:00 [xfsdatad/1]
                                                   -1 S
-1 S
                                                                -1 S
                                                                 0 0:00 [xfsdatad/3]

0 0:00 [xfsconvertd/0]

0 0:00 [xfsconvertd/1]

0 0:00 [xfsconvertd/2]

0 0:00 [xfsconvertd/3]
                                                   -1 S
-1 S
                                                   -1 S
                                                 1 S 0 0:00 [xfsconvertd/2]

-1 S 0 0:00 [yfsIO]

-1 S 0 0:00 [jfsCommit]

-1 S 0 0:00 [jfsSync]

-1 S 1000 249:23 ./boinc --daemon

-1 S 0 0:10 /usr/lib/postfix
                                                   -1 S
-1 S
     1 13841 13841 13841 ?
1 14479 14479 14479 ?
14479 14481 14479 14479 ?
                                                                 0 0:10 /usr/lib/postfix/master
                                                   -1 S
-1 S
                                                                          0:02 qmgr -l -t fifo -u
                                                                 0 27:11 smbd -F
17136 16953 17136 17136 ?
                                                  -1 Ss
-1 Ss
-1 S
     1 17136 17136 17136 ?
1 17143 17143 17143 ?
                                                                         0:16 smbd -F
                                                                    0
                                                                   0 14:42 nmbd -D
17136 17145 17136 17136 ?
                                                                   0
                                                                        0:00 smbd -F
                                                                   0
                                                                         0:03 rsync -auz -e ssh
     1 18572 18566 18566 ?
                                                   -1 S
root@172.16.2.10:/www/* /md1200/www/Thursday/
                                                   -1 S
18572 18616 18566 18566 ?
                                                                   0
                                                                        0:02 ssh -l root 172.16.2.10
rsync --server --sender -ulogDtprze.iLsf . /www/*
13841 19071 13841 13841 ? -1 SNl 1000 87:53
../../projects/setiathome.berkeley.edu/setiathome-5.28.x86_64-pc-linux-gnu
                                                   -1 SNl 1000 88:08
13841 19072 13841 13841 ?
 ./../projects/setiathome.berkeley.edu/setiathome-5.28.x86_64-pc-linux-gnu
13841 19073 13841 13841 ?
                                                   -1 SNl 1000 88:04
\verb|.../.../projects/setiathome.berkeley.edu/setiathome-5.28.x86\_64-pc-linux-gnu|\\
13841 19074 13841 13841 ?
                                                   -1 SNl 1000 87:42
../../projects/setiathome.berkeley.edu/setiathome-5.28.x86_64-pc-linux-gnu
                                                   -1 SN 114 0:00 /usr/sbin/zabbix_agentd
     1 22633 22632 22632 ?
22633 22635 22632 22632 ?
                                                  -1 SN 114 483:39 /usr/sbin/zabbix_agentd

-1 SN 114 45:23 /usr/sbin/zabbix_agentd

-1 SN 114 44:51 /usr/sbin/zabbix_agentd

-1 SN 114 44:45 /usr/sbin/zabbix_agentd
                                                   -1 SN
                                                                 114 483:39 /usr/sbin/zabbix_agentd
22633 22636 22632 22632 ?
22633 22637 22632 22632 ?
22633 22638 22632 22632 ?
                                                  -1 SN 114 44:36 /usr/sbin/zabbix_agentd

-1 SN 114 6:09 /usr/sbin/zabbix_agentd

-1 SN 111 0:00 pickup -1 -t fifo -u -c

-1 Ss 113 14:34 /usr/sbin/ptpd
                                                                114 45:02 /usr/sbin/zabbix_agentd
22633 22639 22632 22632 ?
                                                   -1 SN
22633 22640 22632 22632 ?
22633 22641 22632 22632 ?
14479 25203 14479 14479 ?
    1 27680 27680 27680 ?
/var/run/ntpd.pid -g -u 113:122
                                                                0
960 28801 28801 28801 ? -1 Ss
28801 28866 28866 28866 pts/0 29991 Ss
                                                                        0:00 sshd: root@pts/0
                                                                        0:00 -bash
                                                                  0
                                               -1 S<
29991 S+
  343 29055
                  343
                          343 ?
                                                                    0
                                                                          0:19 udevd --daemon
                                                                   0 0:00 ssh 172.16.1.3
28866 29991 29991 28866 pts/0
 960 29992 29992 ?
                                                -1 Ss
                                                                   0 0:00 sshd: root@pts/1
29992 30057 30057 30057 pts/1 30109 Ss
30057 30109 30109 30057 pts/1 30109 R+
                                                                  0 0:00 -bash
0 0:00 ps jax
```

2.4. zombie process

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3. mpstat

LIIIUX Z.	6.18	-194.6	el5 (loca	alhost)	09	/20/2010				
05:48:55 intr/s	PM	CPU	%user	%nice	%sys %	iowait	%irq	%soft	%steal	%idle
05:49:55 2622.21	PM	all	17.42	0.00	0.25	0.21	0.04	0.34	0.00	81.74
05:49:55 1000.50	PM	0	5.85	0.00	0.27	0.25	0.00	0.05	0.00	93.58
05:49:55 7.54	PM	1	7.55	0.00	0.15	0.33	0.02	0.07	0.00	91.88
)5:49:55 0.00	PM	2	13.64	0.00	0.23	0.03	0.00	0.10	0.00	86.00
05:49:55	PM	3	14.05	0.00	0.23	0.45	0.00	0.08	0.00	85.18
)5:49:55 9.59	PM	4	7.72	0.00	0.20	0.28	0.00	0.05	0.00	91.74
)5:49:55	PM	5	2.83	0.00	0.13	0.02	0.00	0.05	0.00	96.95
)5:49:55 90.90	PM	6	11.79	0.00	0.22	0.28	0.02	0.25	0.00	87.45
05:49:55 1513.67	PM	7	75.96	0.00	0.60	0.02	0.25	2.05	0.00	21.12
)5:49:55 intr/s	PM	CPU	%user	%nice	%sys %	iowait	%irq	%soft	%steal	%idle
05:50:55 2193.66	PM	all	8.49	0.00	0.85	0.25	0.03	0.21	0.00	90.1
05:50:55 1000.67	PM	0	2.33	0.00	0.28	0.18	0.00	0.02	0.00	97.18
05:50:55 3.60	PM	1	2.05	0.00	0.27	0.55	0.02	0.03	0.00	97.08
05:50:55	PM	2	2.85	0.00	0.73	0.38	0.00	0.10	0.00	95.93
05:50:55	PM	3	2.67	0.00	2.18	0.12	0.00	0.02	0.00	95.02
05:50:55 11.29	PM	4	4.77	0.00	0.67	0.58	0.02	0.03	0.00	93.93
05:50:55	PM	5	1.63	0.00	1.42	0.13	0.00	0.02	0.00	96.8
05:50:55 245.62	PM	6	2.20	0.00	0.58	0.00	0.05	0.18	0.00	96.98
	PM	7	49.41	0.00	0.63	0.08	0.17	1.28	0.00	48.42
05:50:55 intr/s	PM	CPU	%user	%nice	%sys %	iowait	%irq	%soft	%steal	%idle
05:51:55 3566.81	PM	all	36.61	0.00	0.46	0.19	0.06	0.64	0.00	62.0
05:51:55	PM	0	25.53	0.00	0.43	0.03	0.00	0.23	0.00	73.7
05:51:55 7.75	PM	1	17.64	0.00	0.33	0.28	0.02	0.12	0.00	81.63
05:51:55	PM	2	40.56	0.00	0.48	0.30	0.00	0.30	0.00	58.3
05:51:55	PM	3	46.88	0.00	0.52	0.15	0.00	0.27	0.00	52.18
05:51:55 8.99	PM	4	29.60	0.00	0.45	0.52	0.00	0.22	0.00	69.2
)5:51:55).00	PM	5	10.72	0.00	0.37	0.17	0.00	0.12	0.00	88.63
)5:51:55 L11.15	PM	6	40.83	0.00	0.48	0.05	0.03	0.35	0.00	58.25
05:51:55 2438.40	PM	7	81.11	0.00	0.63	0.02	0.42	3.57	0.00	14.25

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4. pstree - disp

processes

4. pstree - display a tree of processes

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4. pstree - display a tree of processes

```
$ pstree
init—NetworkManager
—NetworkManagerD
—acpid
         -acpid
-atd
-avahi-daemon-avahi-daemon
-console-kit-dae-61*[{console-kit-dae}]
-cron
-cupsd
-dbus-daemon
          —dd
—dhcdbd
—dhclient3
           —exim4
          -gconfd-2
          —gdm——gdm—
—5*[getty]
                              --kill
          —gnump3d
—hald—hald-runner—hald-addon-acpi
—hald-addon-inpu
          —haid-addon-inpu

—hcid—2*[bluetoothd-serv]

—klogd

—lighttpd—2*[php-cgi—4*[php-cgi]]

—login—bash—pstree

—nmbd
          —postgres——4*[postgres]
          -rsync
-smbd--2*[smbd]
          —sshd
          —syslogd
—system-tools-ba
          -syster
-udevd
           -xinetd
         xinit—Xorg
—xsh—gksu—xfailsafedialog
```

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 5. pid

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5. pid

```
$ pgrep lighttpd
6045
```

pkill

```
$ sudo pkill lighttpd
```

kill TTY

```
[root@development ~]# w

16:07:37 up 1 day, 6:23, 6 users, load average: 0.00, 0.06, 0.26

USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT

develope pts/0 192.168.3.33 16:01 5:45 0.01s 0.01s -bash

jeecen pts/1 192.168.3.129 09:30 7:40 0.00s 0.00s -bash

jeson pts/2 192.168.3.101 11:27 42:47 0.03s 0.03s -bash

develope pts/3 192.168.3.31 16:03 4:33 0.00s 0.00s -bash

root pts/5 172.16.0.1 14:55 1:03m 0.01s 0.01s -bash

root pts/6 172.16.0.1 15:47 0.00s 0.03s 0.00s w

[root@development ~]# pkill -kill -t pts/3
```

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6. jobs

6.1. &

usage: command &

```
$ grep -r 'neo' / > result &
[1] 10414
```

6.2. Ctrl + Z

```
vim
$ vim

[2]+ Stopped vim

mutt
$ mutt

[3]+ Stopped mutt
```

6.3. jobs

6.4. fg / bg

usage: fg [job_spec]

```
$ fg 2
```

usage: bg [job_spec ...]

6.5. nohup - run a command immune to hangups, with output to a non-tty

```
nohup command > myout.file 2>&1 &
nohup command >/dev/null 2>/dev/null &
nohup command &>/dev/null
```

You may using 'jobs' to display task.

and using 'fg %n' to close that.

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第21章 Process

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7. ionice - get/set program io scheduling class and priority

```
EXAMPLES
       # ionice -c3 -p89
       Sets process with PID 89 as an idle io process.
       # ionice -c2 -n0 bash
       Runs 'bash' as a best-effort program with highest priority.
       # ionice -p89
       Returns the class and priority of the process with PID 89.
```

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第 22 章 Authentication

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1.4.1. /etc/passwd

2. Group

2.1. Add a new group

2.2. Add a user to the group

2.3. /etc/group

1. User

1.1. Add a new user

```
$ adduser neo
```

1.2. remove an existed user

remove an existed user, but keeping directory /home/neo

```
$ userdel neo
```

delete user's directory under /home when removing an existed user

```
$ userdel -r neo
```

1.3. usermod - modify a user account

```
usermod -G group -a user
[{\tt root@scientific} ~~] \# {\tt groupadd} ~{\tt vm}
[root@scientific ~]# adduser xen
[root@scientific ~]# usermod -G vm -a xen
[root@scientific \sim]# usermod -G vm -a kvm
[root@scientific ~]# id xen
uid=501(xen) gid=502(xen) groups=502(xen),501(vm)
```

1.4. lock / unlock

```
passwd -l neo
```

```
passwd -u neo
```

1.4.1. /etc/passwd

```
[root@test ~]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
news:x:9:13:news:/etc/news:
uucp:x:10:14:uucp:/var/spool/uucp:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
gopher:x:13:30:gopher:/var/gopher:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/:/sbin/nologin
nscd:x:28:28:NSCD Daemon:/:/sbin/nologin
vcsa:x:69:69:virtual console memory owner:/dev:/sbin/nologin
pcap:x:77:77::/var/arpwatch:/sbin/nologin
rpc:x:32:32:Portmapper RPC user:/:/sbin/nologin
mailnull:x:47:47::/var/spool/mqueue:/sbin/nologin
smmsp:x:51:51::/var/spool/mqueue:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin
nfsnobody:x:4294967294:4294967294:Anonymous NFS User:/var/lib/nfs:/sbin/nologin
dbus:x:81:81:System message bus:/:/sbin/nologin
avahi:x:70:70:Avahi daemon:/:/sbin/nologin
haldaemon:x:68:68:HAL daemon:/:/sbin/nologin
avahi-autoipd:x:100:102:avahi-autoipd:/var/lib/avahi-autoipd:/sbin/nologin
neo:x:500:500::/home/neo:/bin/bash
mysql:x:501:501::/home/mysql:/bin/bash
```

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7. ionice - get/set program io scheduling class and priority

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2. Group

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2. Group

2.1. Add a new group

```
$ groupadd newgroup
```

2.2. Add a user to the group

```
$ groupadd mygroup
$ sudo usermod -a -G mygroup user
```

2.3. /etc/group

```
[root@test ~]# cat /etc/group
root:x:0:root
bin:x:1:root,bin,daemon
daemon:x:2:root,bin,daemon
sys:x:3:root,bin,adm
adm:x:4:root,adm,daemon
tty:x:5:
disk:x:6:root
lp:x:7:daemon,lp
mem:x:8:
kmem:x:9:
wheel:x:10:root
mail:x:12:mail
news:x:13:news
uucp:x:14:uucp
man:x:15:
games:x:20:
gopher:x:30:
dip:x:40:
ftp:x:50:
lock:x:54:
nobody:x:99:
users:x:100:
nscd:x:28:
floppy:x:19:
vcsa:x:69:
pcap:x:77:
utmp:x:22:
utempter:x:35:
slocate:x:21:
audio:x:63:
rpc:x:32:
mailnull:x:47:
smmsp:x:51:
ecryptfs:x:101:
sshd:x:74:
rpcuser:x:29:
nfsnobody:x:4294967294:
dbus:x:81:
avahi:x:70:
haldaemon:x:68:
avahi-autoipd:x:102:
neo:x:500:
mysql:x:501:
```

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 - 5.2.1. set
 - 5.2.2. default
 - 5.2.3. remove
 - 5.3. backup and restore

1. umask

```
[root@development ~]# umask
0022
[root@development ~]# umask -S
u=rwx,g=rx,o=rx
```

设置

umask 002

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2. Group

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2. Access Permissions

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2. Access Permissions

2.1. chown - change file owner and group

chown - change file owner and group

```
[root@test ~]# touch test
[root@test ~]# adduser neo
[root@test ~]# chown neo test
[root@test ~]# 11 test
-rw-r--r-- 1 neo root 0 Apr 19 18:15 test
```

2.2. chgrp - change group ownership

chgrp - change group ownership

```
# chgrp daemon -R *
# 11
drwxrwxr-x 3 neo daemon 4096 Apr 16 18:23 user
```

2.3. chmod - change file access permissions

option

```
u = user
g = group
o = other
a = all

r = 4
w = 2
x = 1
```

```
[root@test ~]# 11 test
-rwxr--r-- 1 neo root 0 Apr 19 18:15 test
[root@test ~]# chmod g=x test
[root@test ~]# 11 test
-rwx--xr-- 1 neo root 0 Apr 19 18:15 test
[root@test ~]# chmod go+w test
[root@test ~]# chmod go+w test
[root@test ~]# 11 test
-rwx-wxrw- 1 neo root 0 Apr 19 18:15 test
[root@test ~]# chmod u-wx test
[root@test ~]# 11 test
-r---wxrw- 1 neo root 0 Apr 19 18:15 test
[root@test ~]# chmod u=rwx test
[root@test ~]# ll test
-rwx-wxrw- 1 neo root 0 Apr 19 18:15 test
[root@test ~]# ll test
-rwx-wxrw- 1 neo root 0 Apr 19 18:15 test
[root@test ~]# chmod a=rwx test
[root@test ~]# chmod a=rwx test
[root@test ~]# 11 test
-rwxrwxrwx 1 neo root 0 Apr 19 18:15 test
```



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3. chattr - change file attributes on a Linux second extended file system

3. chattr - change file attributes on a Linux second extended file system

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3. chattr - change file attributes on a Linux second extended file system

```
[root@development ~]# chattr +i /etc/passwd
[root@development ~]# lsattr /etc/passwd
----i----- /etc/passwd
```

```
[root@development ~]# chattr -i /etc/passwd
[root@development ~]# lsattr /etc/passwd
------ /etc/passwd
```

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2. Access Permissions

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4. su - run a shell with substitute user and group IDs

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4. su - run a shell with substitute user and group IDs

Change the effective user id and group id to that of USER.

```
[neo@development ~]$ su - root
```

```
[neo@development ~]$ su root -c "rm -rf linux/"
```

4.1. sudo, sudoedit - execute a command as another user

```
debian:~# apt-get install sudo
```

/etc/sudoers

```
# /etc/sudoers
#
# This file MUST be edited with the 'visudo' command as root.
#
# See the man page for details on how to write a sudoers file.
#
Defaults env_reset
# Host alias specification
# User alias specification
# User privilege specification
# User privilege specification
# User privilege specification
# User privilege specification
# Uncomment to allow members of group sudo to not need a password
# (Note that later entries override this, so you might need to move
# it further down)
% sudo ALL=NOPASSWD: ALL
```

sudo group

```
neo@debian:/etc/mysql$ cat /etc/group | grep 'sudo' sudo:x:27:neo
```

ubuntu NOPASSWD

```
%admin ALL=(ALL)ALL
改为
%admin ALL=(ALL) NOPASSWD: NOPASSWD: ALL
```

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3. chattr - change file attributes on a Linux second extended file system

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5. ACL - Access Control List

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5. ACL - Access Control List

```
$ sudo modprobe loop
$ dd if=/dev/zero of=file bs=1k count=100
$ sudo losetup /dev/loop0 file
$ sudo mkfs.ext3 /dev/loop0
$ sudo mkdir /mnt/loop
$ sudo mount -o rw,acl /dev/loop0 /mnt/loop/
$ sudo chown neo.neo -R /mnt/loop
$ cd /mnt/loop/
```

5.1. getfacl - get file access control lists

UGO

```
$ touch file
$ ls -l file
-rw-r--r-- 1 neo neo 0 2008-12-22 15:28 file
```

ACL

```
$ getfacl file
# file: file
# owner: neo
# group: neo
user::rw-
group::r--
other::r--
```

display the default access control list only

```
neo@netkiller:/mnt/loop$ getfacl dir
# file: dir
# owner: neo
# group: neo
user::rwx
group::r-x
other::r-x
default:user::rwx
default:user:svnroot:rw-
default:group::r-x
default:group:nagios:rw-
default:mask::rwx
default:other::r-x
neo@netkiller:/mnt/loop$ getfacl -d dir
# file: dir
# owner: neo
# group: neo
user::rwx
user:svnroot:rw-
group::r-x
group:nagios:rw-
mask::rwx
other::r-x
```

recurse into subdirectories

```
$ getfacl -R dir
# file: dir
```

```
# owner: neo
# group: neo
user::rwx
group::r-x
other::r-x
default:user::rwx
default:user:svnroot:rw-
default:group::r-x
default:group:nagios:rw-
default:mask::rwx
default:other::r-x
# file: dir/file1
# owner: neo
# group: neo
user::rw-
user:svnroot:rw-
                                  #effective:r--
group::r-x
group:nagios:rw-
mask::rw-
other::r--
```

5.2. setfacl - set file access control lists

5.2.1. set

add a user synroot to file

```
neo@netkiller:/mnt/loop$ setfacl -m u:svnroot:rw file
```

if you can see a '+' at last, it's successed

```
$ ls -l file
-rw-rw-r--+ 1 neo neo 0 2008-12-22 15:44 file
```

let me see acl.

```
neo@netkiller:/mnt/loop$ getfacl file
# file: file
# owner: neo
# group: neo
user::rw-
user:svnroot:rw-
group::r--
mask::rw-
other::r--
```

add a user cvsroot to file again

```
neo@netkiller:/mnt/loop$ setfacl -m u:cvsroot:rw file
neo@netkiller:/mnt/loop$ getfacl file
# file: file
# owner: neo
# group: neo
user::rw-
user:cvsroot:rw-
user:svnroot:rw-
group::r--
mask::rw-
other::r--
```

add a user and group for that

```
neo@netkiller:/mnt/loop$ setfacl -m u:gnump3d:rwx,g:nagios:r file
neo@netkiller:/mnt/loop$ getfacl file
# file: file
# owner: neo
# group: neo
user::rw-
user:gnump3d:rwx
```

```
user:cvsroot:rw-
user:svnroot:rw-
group::r--
group:nagios:r--
mask::rwx
other::r--
```

modify the current ACL(s) of file(s)

```
neo@netkiller:/mnt/loop$ getfacl file
# file: file
# owner: neo
# group: neo
user::rw-
user:svnroot:rw-
group::r--
mask::rw-
other::r--
neo@netkiller:/mnt/loop$ setfacl -m u:svnroot:r-x file
neo@netkiller:/mnt/loop$ getfacl file
# file: file
# owner: neo
# group: neo
user::rw-
user:svnroot:r-x
group::r--
mask::r-x
other::r--
```

5.2.2. default

```
neo@netkiller:/mnt/loop$ setfacl -d -m u:svnroot:rw dir/
neo@netkiller:/mnt/loop$ getfacl dir/
# file: dir
# owner: neo
# group: neo
user::rwx
group::r-x
other::r-x
default:user::rwx
default:user:svnroot:rw-
default:group::r-x
default:mask::rwx
default:other::r-x
neo@netkiller:/mnt/loop$ setfacl -d -m g:nagios:rw dir/
neo@netkiller:/mnt/loop$ getfacl dir/
# file: dir
# owner: neo
# group: neo
user::rwx
group::r-x
other::r-x
default:user::rwx
default:user:svnroot:rw-
default:group::r-x
default:group:nagios:rw-
default:mask::rwx
default:other::r-x
```

the file1 will inherit acl by default.

```
neo@netkiller:/mnt/loop$ touch dir/file1
neo@netkiller:/mnt/loop$ getfacl dir/file1
# file: dir/file1
# owner: neo
# group: neo
user::rw-
user:svnroot:rw-
group::r-x #effective:r--
group:nagios:rw-
mask::rw-
other::r--
```

5.2.3. remove

remove entries from the ACL(s) of file(s)

```
neo@netkiller:/mnt/loop$ setfacl -x u:cvsroot file
neo@netkiller:/mnt/loop$ setfacl -x g:nagios file
neo@netkiller:/mnt/loop$ getfacl file
# file: file
# owner: neo
# group: neo
user::rw-
user:gnump3d:rwx
user:svnroot:rw-
group::r--
mask::rwx
other::r--
```

remove all extended ACL entries

```
neo@netkiller:/mnt/loop$ setfacl -b file
neo@netkiller:/mnt/loop$ getfacl file
# file: file
# owner: neo
# group: neo
user::rw-
group::r--
other::r--
```

5.3. backup and restore

backup

```
$ getfacl -R dir > dir.acl
```

restore

```
$ setfacl --restore dir.acl
```

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4. su - run a shell with substitute user and group IDs

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http://tmux.sourceforge.net/

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2. htop - interactive process viewer

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2. htop - interactive process viewer

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3. elinks

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- 2. Automatic login
- 3. fonts 字体
- 4. disable x window

27. X Terminal

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1.1. VNC

<u>1.2. xdmcp</u>

- 2. vinagre a remote desktop viewer for the GNOME Desktop
- 3. rdesktop A Remote Desktop Protocol client
- 4. TightVNC

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- 2. LXDE
- <u>3. Xfce</u>
- 4. Xming X Server for Windows

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- 2. Download Software
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- 4. LibreOffice
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1. Calc

1.1. 函数

http://www.freedesktop.org

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第 25 章 install x window

yum groupinstall "X Window System" Desktop "Desktop Platform" Font

修改/etc/inittab文件id:5:initdefault:

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- 1. 取消开机启动画面
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1. 取消开机启动画面

splash 改为 nosplash

sudo vim /boot/grub/menu.lst

title

root

Ubuntu 8.10, kernel 2.6.24-22-generic
(hd0,0)
/boot/vmlinuz-2.6.24-22-generic root=UUID=66320533-a53d-4740-b7f0-ed0c294802ea ro kernel

quiet splash initrd /boot/initrd.img-2.6.24-22-generic

quiet

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2. Automatic login

\$ sudo vim gdm.conf-custom

[daemon]
AutomaticLoginEnable=true
AutomaticLogin=neo
TimedLogin=neo



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3. fonts 字体

mkdir -p /usr/share/fonts/zh_CN/TrueType/
cp -r Fonts/* /usr/share/fonts/zh_CN/TrueType/
chmod 644 /usr/share/fonts/zh_CN/TrueType/*
cd /usr/share/fonts/zh_CN/TrueType/
mkfontscale
mkfontdir
fc-cache /usr/share/fonts/zh_CN/TrueType/

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4. disable x window

\$ sudo chmod 600 /etc/init.d/gdm

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3. rdesktop - A Remote Desktop Protocol client

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1. tsclient - Terminal Server Client supporting XDMCP, VNC and RDP

1.1. VNC

让tsclient支持vnc协议

sudo apt-get install xtightvncviewer

1.2. xdmcp

让tsclient支持xdmcp协议

sudo apt-get install xnest

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4. disable x window

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2. vinagre - a remote desktop viewer for the

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2. vinagre - a remote desktop viewer for the GNOME Desktop

\$ vinagre

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3. rdesktop - A Remote Desktop Protocol client

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3. rdesktop - A Remote Desktop Protocol client

http://www.rdesktop.org/

\$ rdesktop -g 800x600 -d 16 yourdomain.com/ip address

下载 http://www.cendio.se/files/thinlinc/seamlessrdp/seamlessrdp.zip, 并解压到C盘根目录下, C:\seamlessrdp, 然后就登出; rdesktop -A -s "c:\seamlessrdp\seamlessrdpshell.exe C:\Program Files\Internet Explorer\iexplore.exe" 192.168.0.10:3389 -u administrator -p 123456 即可打开IE

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http://www.tightvnc.com/

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http://www.fluxbox.org/

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4. Xming X Server for Windows

http://sourceforge.net/projects/xming/

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- 6. greenshot

1. Firefox

配置firefox选项

在Firefox的地址栏中输入about:config

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3. PAC Manager

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3. PAC Manager

https://sourceforge.net/projects/pacmanager/files/

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4. LibreOffice

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5. VYM (View Your Mind)

yum install vym

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6. greenshot

http://sourceforge.net/projects/greenshot/

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第 30 章 Office

目录

1. Calc

1.1. 函数

1. Calc

1.1. 函数

字符串拼接

=CONCATENATE("text1";A1;"text2";D2)

="text1"&A1

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1. Boinc (berkeley 分布式计算平台)

1.1. rc.local

2. ubuntu apt-get 安装

3. boincemd

3.1. attach_project

3.2. nomorework | allowmorework 禁止下载任务 / 允许下载任务

1. Boinc (berkeley 分布式计算平台)

下载Boinc

\$ wget http://boinc.berkeley.edu/dl/boinc_5.6.4_i686-pc-linux-gnu.sh

\$chmod +x boinc_5.6.4_i686-pc-linux-gnu.sh\$./boinc_5.6.4_i686-pc-linux-gnu.sh

```
netkiller@Linux-server:~$ chmod +x boinc_5.6.4_i686-pc-linux-gnu.sh
netkiller@Linux-server:~$ ./boinc_5.6.4_i686-pc-linux-gnu.sh
use /home/netkiller/BOINC/run_manager to start BOINC
netkiller@Linux-server:~$ ls
BOINC boinc_5.6.4_i686-pc-linux-gnu.sh public_html www
netkiller@Linux-server:~$ cd BOINC/
netkiller@Linux-server:~/BOINC$ ls
binstall.sh boincmgr boincmgr.8x8.png run_client
boinc boincmgr.16x16.png ca-bundle.crt run_manager
boinc_cmd boincmgr.32x32.png locale
netkiller@Linux-server:~/BOINC$
```

添加项目

```
$ ./boinc --attach_project http://setiathome.berkeley.edu/
3d996959b1f88df43048f87c3c0c999f
```

运行Boinc

./boinc -daemon -no_gui_rpc

1.1. rc.local

/home/neo/BOINC/run_client --daemon

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2. ubuntu apt-get 安装

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3. boincemd

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3. boincemd

```
# ./boinccmd
usage: boinccmd [--host hostname] [--passwd passwd] command
Commands:
 --lookup_account URL email passwd
 --create_account URL email passwd name
 --project_attach URL auth
                                    attach to project
 --join_acct_mgr URL name passwd
                                    attach account manager
 --quit acct mgr
                                    quit current account manager
 --get_state
                                    show entire state
 --get_results
                                    show results
 --get_simple_gui_info
                                    show status of projects and active results
 --get_file_transfers
                                    show file transfers
 --get project status
                                    show status of all attached projects
 --get_disk_usage
                                    show disk usage
 --get_proxy_settings
 --get_messages [ seqno ]
                                    show messages > seqno
 --get_message_count
                                    show largest message segno
 --get_host_info
                                    show core client version
 --version, -V
 --result url result_name op
                                    job operation
  op = suspend | resume | abort | graphics_window | graphics_fullscreen
 --project URL op
                                    project operation
  op = reset | detach | update | suspend | resume | nomorework | allowmorework
 --file_transfer URL filename op
                                   file transfer operation
  op = retry | abort
 --set_run_mode mode duration
                                    set run mode for given duration
  mode = always | auto | never
 --set_gpu_mode mode duration
                                    set GPU run mode for given duration
  mode = always | auto | never
 --set_network_mode mode duration
 --set_proxy_settings
 --run_benchmarks
 --read_global_prefs_override
 --quit
 --read_cc_config
 --set_debts URL1 std1 ltd1 [URL2 std2 ltd2 ...]
 --get_project_config URL
 --get_project_config_poll
 --network_available
 --get_cc_status
```

3.1. attach_project

添加计算项目

```
$ ./boinc --attach_project http://setiathome.berkeley.edu/
3d996959b1f88df43048f87c3c0c999f
$ ./boinc --attach_project www.worldcommunitygrid.org
dad152cf8f8fbdc52b04d4eeaa43e1ca
$ ./boinc --attach_project http://climateprediction.net/
4070a202cd5a559ec9d044cffc156fa4
$ ./boinc --attach_project http://einstein.phys.uwm.edu/
f9d5ee6d433a6949599f91dd7d9ceb8e
          --attach_project http://milkyway.cs.rpi.edu/milkyway/
f2fa96fb4f72df925cba92c34031768d
$ ./boinc --attach_project http://boinc.iaik.tugraz.at/sha1_coll_search/
0017d38d9c4a944caa8dad0b82b3f6a6
$ ./boinc --attach_project http://lhcathome.cern.ch/lhcathome/
132e3b1b159af3c36c98056f9197dd8a
$ ./boinc --attach_project http://boinc.bakerlab.org/rosetta/
6ed4722aa62a9df5dd341e0b3b77d812
```

```
./boinccmd --project_attach http://einstein.phys.uwm.edu/
f9d5ee6d433a6949599f91dd7d9ceb8e
./boinccmd --project_attach http://boinc.bakerlab.org/rosetta/
6ed4722aa62a9df5dd341e0b3b77d812
```

3.2. nomorework | allowmorework 禁止下载任务 / 允许下载任务

```
./boinccmd --project http://boinc.bakerlab.org/rosetta/ nomorework
./boinccmd --project http://milkyway.cs.rpi.edu/milkyway/ nomorework
./boinccmd --project http://einstein.phys.uwm.edu/ nomorework
./boinccmd --project http://setiathome.berkeley.edu/ nomorework
```

```
./ \verb|boinccmd --project http://setiathome.berkeley.edu/ allowmorework|\\
```

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http://distrowatch.com/

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3. boincemd

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附录 B. 历史记录

修订历史

修订 1.0

2009-11-01

- 这篇文档出自《Netkiller Linux 手札》的系统配置篇
- 考虑到《Netkiller Linux 手札》过于臃肿,故将ubuntu linux系统配置部分分离出来作为系统篇。而《Netkiller Linux 手札》专注于各种服务器的配置。

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