

## LINUX Notes

version nov 2008

- 1) cat /etc/issue ... [linux version name, ie Fedora Core release 5]
- 2) uname -a ... [print system info, OS, hostname, kernel num, date, hardware]  
uname -m ... [which chip]
- 3) cat /proc/version ... [like uname -a but adds compiler info]
- 4) ifconfig eth0 ... [get network interface info for eth0]
- 5) hostname ... [get hostname only]
- 6) netstat -a ... [ck ports: sockets]
- 7) rpm -qa | more ... [find all installed rpm packages]  
rpm -q PACKAGENAME ... [finds if PACKAGENAME is installed]  
rpm -qi PACKAGENAME ... [gets info for PACKAGENAME]  
rpm -ql PACKAGENAME ... [list directory & files for PACKAGENAME]
- 8) /etc/hosts.deny ALL:ALL  
/etc/hosts.allow in:telnetd: [allowed host]
- 9) ps aux | grep xinetd ... [sees if xinetd is running]
- 10) ls -l /etc/xinetd.d/\* | more ... [sees what xinetd is running]  
for each service in xinetd.d/ set disable = yes to turn off
- 11) service xinetd start  
service xinetd stop  
service xinetd restart
- 12) netsat --inet -a | grep LISTEN
- 13) iptables -A OUTPUT -p icmp --icmp-type echo-request -j ACCEPT  
iptables -A OUTPUT -p icmp --icmp-type echo-reply -j ACCEPT  
  
sequence: (1) iptables -ADD  
(2) service iptables save  
(3) service iptables restart  
  
(need to reboot to change firewall)
- 14) /etc/httpd/conf/httpd.conf serverName [IPAddress]:80
- 15) CNTRL + ALT + F3 returns to console from frozen x-window
- 16) /etc/cron.daily/mapsdump  
cd /path/null  
rm -f \*.\*
- 17) /usr/sbin/apachectl -k graceful (graceful restart, old style)
- 18) service httpd restart (ordinary)
- 19) df -k ... [ck all mounted partitions]
- 20) fdisk -l ... [ck all drives and their partitions]
- 21) mount /dev/driveName /mnt/folderName [mount drive to folder]  
example: mount -t ext2 /dev/hdb5 /koko
- 22) rm -f ... [remove force]  
rm -rf folderName ... [rm dir \$ all contents]  
rm -rf \* ... [rm everything]
- 23) du -h ... [disk use human readable]
- 24) /etc/init.d/xfs start ... [restart x-window]  
/etc/rc.d/init.d/xfs restart ... [in FC5]
- 25) chkconfig --level 2345 xfs on ... [xfs across reboot]
- 26) export JAVA\_HOME=/path/java  
export PATH=\$JAVA\_HOME/bin:\$PATH
- 27) /etc/inittab id:3:initdefault ... [boot to text only]
- 28) tar -xzvf file.tar.gz ... [unpacks compressed tarball]  
tar -czf tarballName.gz /path/to/stuff ... [compresses stuff into tarball]  
gzip -9 filename ... [creates .gz compressed file w best option -9]
- 29) php -i ... [verbose list of php config, compare phpinfo();]
- 30) /sbin/shutdown -h now ... [halt]  
/sbin/shutdown -r now ... [reboot]
- 31) yum update PACKAGENAME

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yum install PACKAGENAME
32) netstat -l -t -p ... [show active inet ports]
33) nmap localhost ... [ck open ports]
    nmap -A -T4 localhost ... [test from outside]
34) vi /etc/sysconfig/network ... [change hostname]
35) useradd -d /home/dirName -m userName ... [-m forces creation of homeDirectory]
36) cp -fr /path/to/folder /path/to/new/root/location ... [copies stuff within
folder]
    cp -frv /path/to/webroot/drupal/* /path/to/webroot/ ... [cp all stuff WITHIN
a subfolder to the webroot]
37) find . -name 'PREFIX*' | xargs rm ... [finds all files beginning w/ PREFIX
then fries them, one at a time, avoiding 'too many arguments' error, like when
cleaning up a TMP folder]
    example:
    if mapserver tmp = /adios
    cd /adios
    find . -name '*.png' | xargs rm
38) URL Redirect, make sure Apache has mod_rewrite loaded
add:
    RewriteEngine On
    RedirectMatch ^/folderName/(.*)$ http://new.site/$1
restart apache
39) fixing the ^M stuff at the end of lines with improper CR/LF returns
(1) open the file in question with vi
(2) first type :%s/
(3) then type [CONTROL-V][CONTROL-M]
(4) the display should now look like :%s/^M
(5) complete the command by typing //g
(6) now the line should look like :%s/^M//g
explanation:
[:%s/] is the search/replace function
[/] starts the search string
[CONTROL-V] lets vi escape the CONTROL character needed for the CONTROL-M
[CONTROL-M] prints the stupid ^M
[/] second slash ends the search string and begins the replace string
[/] third slash ends the replace string, which in this case is blank
[g] is global replace
this should whack all those ugly ^M
40) htaccess from scratch
(1) go to /etc/httpd/conf/httpd.conf
(2) find
    <Directory />
    Options FollowSymLinks
    AllowOverride None
    </Directory>
(3) add
    <Directory "/usr/local/apache/htdocs/admin">
    AllowOverride AuthConfig
    Options Indexes FollowSymLinks Includes
    Order allow,deny
    Allow from all
    </Directory>
(4) service httpd restart
(5) chmod 755 folderX
(5) create .htaccess and make it chmod 644
    AuthUserFile /path/to/html/protected/folderX/.htpasswd
    AuthName "Authorization Required Text"
    AuthType Basic
    require valid-user
(6) htpasswd -c .htpasswd username ... [do this in folderX and chmod
.htpasswd 644]

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- 41) `/usr/bin/safe_mysqld &` [nice restart of mysqld, old style]
- 42) `mt -f /dev/ht0 status ...` [ck status of magnetic tape drive]  
`mt -f /dev/ht0 rewind ...` [rewind tape]  
`mt -f /dev/ht0 erase ...` [scrubs tape]
- 43) `ps aux | more ...` [show all processes]
- 44) some permissions  
644 (d)rw-r--r--  
666 (d)rw-rw-rw-  
755 (d)rwxr-xr-x  
777 (d)rwxrwxrwx
- 45) symlink
  - (1) go to the folder where you want the new symlink to live, like `/var/www/newPlace`
  - (2) create the link to the actual stuff (`index.html`) by pointing to the location
  - (3) `ln -s /var/www/index.html /var/www/newPlace`
- 46) `php -i|grep configure` [ck existing configuration of php compile]