

Creating Users, Groups

`useradd -s /bin/zsh -c 'my user' -m anna` Create user anna with default shell (-s) and home dir (-m)

`id user` Show user info

`groupadd sales` Create 'sales' group

`usermod -aG sales anna` Add anna to supplementary group 'sales'

`useradd -D` Display default value of user

`/etc/default/useradd` Configuration file for default value

`/etc/login.defs` Additional configuration value

`/etc/skel` Content in skel will be copied to new user home dir

Resource Access Restrictions

`yum groups install 'Directory Client'` Install the Utility 'Directory Client'

`yum install authconfig-gtk` Install graphic interface of auth

`/etc/security/limits.conf` Limit configuration file:nproc, hard limit, soft limit

Access Control List

`setfacl -R -m d:g:sales:rx account` Set ACL so 'sales' group can read, execute on account dir and all sub-dir on default account

`getfacl` Display all access control list permissions (+ symbol)

System-Wide Environment Profile

`env` (environment variable)
`export var` (store variable)
`unset var` (reset variable)
`env -i bash` (change environment)
`vim /etc/environment` (set new variable)
`LINUX="/home/long"`
`source /etc/environment` (source new variable w/o reboot)

Manage Template User Environment

`vim /etc/skel/.bashrc` (file for setting)
`/etc/skel` (putting new file here will make it default for new user only)

Permissions

Read 4, Read on File, Ls on Dir

Write 2, Modify on File, Create/Del on Dir

Execute 1, Run on File, Cd into Dir

`chgrp account account` Change group owner of account dir to 'account' group

`chown anna account` Change anna to owner of 'account' dir

`chown linda.sales sales` Change user and group owner of 'sales' dir to linda, sales

`chmod g+w account` Make members of 'account' group have write permissions on account dir

`chmod 770 sales` Make user, group have read, write, execute permission; others none

Extended Attributes

`chattr +i file1` Make file1 has "immutable" attribute

Managing Quota on Ext4

`yum install -y quota` Install quota package

`vim /etc/fstab` Config file for mounting file system automatically

`mount -o remount /quota` Make sure the file system mounted with right options

`quotacheck -mavug` Scan the file system

`quota -vu lisa` Display quota on user lisa

`quotaon -a` Activating quota

`edquota -u lisa` Edit quota limit on user lisa; soft to 10; hard to 10

`edquota -b lisa linda` Copy the quota limit from lisa to linda

`dd if=/dev/zero of=/quota/bigfile bs=1M count=3` if input file; of output file; bs block size; write 3 times

`repquota -aug` Display quota overview

Password Properties

`echo password | passwd -stdin brenda` Echo password to change brenda's password

`chage brenda` Interactive change



By nhatlong0605

cheatography.com/nhatlong0605/

Published 24th September, 2018.

Last updated 14th November, 2018.

Page 1 of 2.

Sponsored by **Readability-Score.com**

Measure your website readability!

<https://readability-score.com>

User,Group Configuration File

cat /etc/group	Group config file
sales:x:1004:anna	GroupName:Password:GroupID:GroupMembers
cat /etc/passwd	User config file
cat /etc/shadow	User Config file
vipw -s	vi passwd consistently

Advanced Permissions

suio	4; run as owner on file
sgio	2; run as group owner on file; inherit dir group owner
sticky	1; delete only if owner on dir
chmod u+s playme	Set UserID bit on playme
chmod g+s *	Set GroupID bit on *
chmod +t *	Apply StickyBit, other users cannot delete file created by owner

Finding files w/ special permissions

find -perm 0600	Find file with read,write for users only
find / -perm /4000 -exec ls -l {} \;	Find files in root dir with userID bit and list it



By **nhatalog0605**

Published 24th September, 2018.
Last updated 14th November, 2018.
Page 2 of 2.

Sponsored by **Readability-Score.com**

Measure your website readability!

<https://readability-score.com>

cheatography.com/nhatalog0605/