

Creating Users, Groups

<code>useradd -s /bin/zsh -c 'my user' -m anna</code>	Create user anna with default shell (-s) and home dir (-m)
<code>id user</code>	Show user info
<code>groupadd sales</code>	Create 'sales' group
<code>usermod -aG sales anna</code>	Add anna to supplementary group 'sales'
<code>useradd -D</code>	Display default value of user
<code>/etc/default/useradd</code>	Configuration file for default value
<code>/etc/login.defs</code>	Additional configuration value
<code>/etc/skel</code>	Content in skel will be copied to new user home dir
<code>id -g groupname</code>	List all users that are members of a group

Resource Access Restrictions

<code>yum groups install 'Directory Client'</code>	Install the Utility
<code>yum install authconfig-gtk</code>	Install graphic interface of auth
<code>/etc/security/limits.conf</code>	Limit configuration file: nproc, hard limit, soft limit

Access Control List

<code>setfacl -R -m d:group:sa-les:rx account</code>	Set ACL so 'sales' group can read, execute on account dir and all sub-dir on default
<code>getfacl</code>	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 enviro - nment)
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
<code>chgrp account account</code>	Change group owner of account dir to 'account' group
<code>chown anna account</code>	Change anna to owner of 'account' dir
<code>chown linda.s-ales sales</code>	Change user and group owner of 'sales' dir to linda, sales
<code>chmod g+w account</code>	Make members of 'account' group have write permissions on account dir
<code>chmod 770 sales</code>	Make user, group have read, write, execute permission; others none

Extended Attributes

<code>chattr +i file1</code>	Make file1 has "immutable" attribute
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Managing Quota on Ext4

<code>yum install -y quota</code>	Install quota package
<code>vim /etc/fstab</code>	Config file for mounting file system automatically
<code>mount -o remount /quota</code>	Make sure the file system mounted with right options
<code>quotacheck -mavug</code>	Scan the file system
<code>quota -vu lisa</code>	Display quota on user lisa
<code>quotaon -a</code>	Activating quota
<code>edquota -u lisa</code>	Edit quota limit on user lisa; soft to 10; hard to 10
<code>edquota -b lisa linda</code>	Copy the quota limit from lisa to linda
<code>dd if=/dev/zero of=/quota/bigfile bs=1M count=3</code>	if input file; of output file; bs block size; write 3 times
<code>repquota -aug</code>	Display quota overview

Password Properties

<code>echo password passwd -stdin brenda</code>	Echo password to change brenda's password
<code>chage brenda</code>	Interactive change

User, Group Configuration File

<code>cat /etc/group</code>	Group config file
<code>sales:x:1004:anna</code>	GroupName:Password:GroupID:GroupMembers
<code>cat /etc/passwd</code>	User config file



User,Group Configuration File (cont)

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 Set UserID bit on playme

u+s

playme

chmod Set GroupID bit on *

g+s *

chmod Apply StickyBit, other users

+t * cannot delete file created by
owner

Finding files w/ special permissions

find -perm 0600 Find file with read,write
for users only

find / -perm Find files in root dir with
/4000 -exec ls -l userID bit and list it
{ } \;



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