

commands miscellanea		commands miscellanea (cont)		commands miscellanea (cont)		commands miscellanea (cont)	
the ps command,	which shows the status of running processes	clear	cleans the screen	kill	terminates a process	ip addr	shows ip address and related information
vimtutor	tutorial for vim	man	manual	mount	it mounts file	expr	allows to perform some mathematical operations
rmdir	erases directory	du	estimates the file memory usage	ifconfig	view the network interface	env	permit to see the current environment variables
whoami	tells what kind of user you are	free	displays the amount of free and used memory in the system	whereis	find the address of a specific command	history	shows the last one hundred commands execute in the system
passwd	set up password or change the one you have	df	report file system disk space usage	uptime	show the running time of the system	iwlist	displays wireless devices plus configuration files
xemacs	calls text editor	lsblk	command used to report info about block devices as follows	hostname	displays the system hostname	locate	find files by name
".bashrc"		fdisk	manipulate disk partition table	cal	show the month calendar	lshw	display some basic information about the machine
cat	scan docs. from conCATenate	uname	print system info	bg	sends a process to the background	lsusb	display information about usb
ln	let you make links between files	cat	cpu info	df	shows file system disk space	nice	nice - run a program with modified scheduling priority
stty "-funtion key"	lets you set up the function keys	/proc/cpuinfo		diff	serves to find differences between to files	pidof	find the process ID of a running program.
stty -a	show the current function key	lscpu	cpu info	top	used to manage top processes	split	serves to split large files in to smaller ones
stty sane	fix the shell	sudo	gets root authority	lspci	serves to visualize P.C.I. devices	sum	checksum and count the blocks in a file
ls ["range"].["range"]	looks for combinations that satisfy specification	grep	search for a string in a file	ping host	send echo message to the host		
tail -"#"	displays the last # of lines of a text file	tar	creates, view or extracts from archive	dig domain	show the dns specification for the domain		
head -"#"	displays the first #of lines of a text file	find	find files with a pattern	scp	allows to remotely copy files from one machine to another machine		
less	show less of a text file	ssh	remotely login				
awk	organize data in in columns and rows	awk	controls output				
sort	sort lines of text files	gzip	creates a *.gz compressed file				
		shutdown	turn off the machine				

commands miscellanea (cont)	setting NFS tutorial (cont)	setting NFS tutorial (cont)	File modification
<p>watch execute a program periodically, showing output fullscreen</p>	<p>\$ sudo systemctl restart nfs-server</p>	<p>\$ sudo yum install nfs-utils nfs-utils-lib</p>	<p>chown USER FILE changes the user ownership of a file to the specified user</p>
<p>setting NFS tutorial</p> <p>sudo yum install nfs-utils nfs-utils-lib install NFS</p>	<p>\$ sudo firewall-cmd --permanent --add-port=111/tcp; \$ sudo firewall-cmd --permanent --add-port=875/tcp; \$ sudo firewall-cmd --permanent --add-port=2049/tcp; \$ sudo firewall-cmd --permanent --add-port=20048/tcp; \$ sudo firewall-cmd --permanent --add-port=4295-5/tcp; \$ sudo firewall-cmd --permanent --add-port=46666/tcp; \$ sudo firewall-cmd --permanent --add-port=5430-2/tcp; \$ sudo firewall-cmd --reload</p>	<p>\$ sudo systemctl enable rpcbind \$ sudo systemctl start rpcbind \$ sudo systemctl enable nfs-server; \$ sudo systemctl start nfs-server; \$ sudo systemctl start nfs-lock; \$ sudo systemctl start nfs-idmap</p> <p>\$ sudo mkdir /NFSsharedFolder; \$ sudo chmod -R 0755 /NFSsharedFolder</p> <p>\$ sudo nano /etc/export</p>	<p>chown USER:GROUP FILE changes the user and the group to the specified user</p>
<p>sudo systemctl enable rpcbind; \$ sudo systemctl start rpcbind; \$ sudo systemctl enable nfs-server; \$ sudo systemctl start nfs-server; \$ sudo systemctl start nfs-lock; \$ sudo systemctl start nfs-idmap</p>	<p>commands to open and configure appropriate ports</p>	<p>\$ sudo systemctl enable rpcbind \$ sudo systemctl start rpcbind \$ sudo systemctl enable nfs-server \$ sudo systemctl start nfs-server \$ sudo systemctl start nfs-lock \$ sudo systemctl start nfs-idma</p> <p>\$ sudo mkdir /NFSfolder \$ sudo chmod -R 755 /NFSfolder</p> <p>\$ sudo nano /etc/fstab</p>	<p>chown USER:GROUP FILE changes the user, and group ownership of the file to the specified user and group respectively</p>
<p>\$ sudo mkdir /NFSsharedFolder; \$ sudo chmod -R 0755 /NFSsharedFolder</p>	<p>move to the client</p>	<p>172.25.22.10:/NFSsharedFolder/NFSfolder/ nfs4 defaults 0 0</p>	<p>chown :GROUP FILE changes the group ownership of the file to the specified group</p>
<p>/NFSsharedFolder 172.25.0.0/16(rw, sync, no_root_squash, no_all_squash)</p>	<p>to continue the configuration</p>	<p>\$ sudo mount</p>	<p>chgrp GROUP FILE changes the group ownership of the file to the specified group</p> <p>chmod [0,1,2,4,7][0,1,2,4,7][0,1,2,4,7] changes readability, writability, and executability of a file to owner, group owner, and everyone respectively</p>
		<p>use this command to check what was mounted in the specified NFS server</p>	



File modification (cont)

chmod [u(user),-	adds or
g(group),o(others),	removes
a(all)][+,-][r(read),-	permission
w(write),x(exec-	to r,w,x
ute),t(write to not	from u,g,o
delete)] File	or a

tutorial on how to setup Samba

\$ sudo cp	creates
/etc/samba/s-	backup file in
mb.conf /etc/s-	case you
amba/smb.con-	mess it up
f.backup	

sudo mkdir	create folder
/SharedFolder/	to be shared

\$ sudo chmod -	set right
R 755 /Share-	permissions
dFolder/	

\$ sudo firewall-	set firewall
cmd --perm-	
anent --zone-	
=public --add-	
service=samba	

\$ sudo firewall-	set firewall
cmd --reload	

\$ sudo nano	open nano to
/etc/samba/s-	start the file
mb.conf	configuration

follow instru-	then come
ction in	back to this
comment	line and keep
	inputting the
	commands

\$ sudo	set up
smbpasswd -a	password for
user1	user1

tutorial on how to setup Samba (cont)

\$ sudo systemctl	commands
enable smb.se-	to enter
rvice; \$ sudo	testing
systemctl enable	phase
nmb.service; \$	
sudo systemctl	
start smb.service;	
\$ sudo systemctl	
start nmb.service	

Move to the client	and
side	continue

smb://server_ip-	type in the
_address	server
	connection
	screen

the configuration file should look like this:

```
[Shared Folder]
path = /SharedFolder
read only = no
guest ok = yes
browsable =yes
writable = yes
create mask = 0755
directory mask = 0755
workgroup = WORKGROUP
```

then save and create user1.

user and groups creations and modifaciton

groupadd	creates new
GROUP	group

groupmod -n	changes the
NewGro-	group name
upName	

useradd USER	creates new
	user

user and groups creations and modifaciton (cont)

useradd -d	creates a user
/path/to/hom-	with specified
e/dir/	home directory

useradd -u	allows to create
USERID	user with
USER	personalized ID

useradd -G	allows to create
GROUP1,	user with
GROUP2...	multiples
USER	groups

cat /etc/p-	lists all user
asswd	and displays
	relevant inform-
	ation

most used commands

pwd	outputs the
	present working
	directory

sudo + other	allows to gain
command(s)	root privileges

root	access root user
	and its privileges

cd + specific	access a specific
address	address

cd	move to home
	directory

cd ..	go back to parent
	directory

ls	outputs inform-
	ation of present
	directory

ls + specific	shows files in the
address	specific directory

most used commands (cont)

ls -a	option a allows to
	show hidden files

ls -l	show deeper
	description of
	showed files

ls -h	shows files in
	human readable
	format

touch "fil-	creates file with the
eName"	specified fileName

echo > "-	allows to write text
insert	to a file(if any,
desired	erase old text in
text"	file)

echo >>	allows to append
"insert	text to a file
text here"	

cp "file" "-	copy files to new
directory"	address

mv "file"	cut files to new
"direct-	address
ory"	

mkdir "-	creates a new
name"	directory inside the
	present directory

mkdir	creates directory
/path/to/-	with a specific path
direct-	
ory/"na-	
me"	

rm "file"	removes files from
	the system

most used commands (cont)

`rm -r` removes recursively the "directories" specified directory from the system

service related commands

`journalctl` prompts the user with the active services in the system

`systemctl` Control the systemd system and service manager

commands miscellanea 2

`flock` manage locks from shell scripts

`lockf` apply, test or remove a POSIX lock on an open file

`fcntl` manipulate file descriptor

`statd` NSM service daemon

`stat` display file or file system status

`samba` A Windows AD and SMB/CIFS fileserver for UNIX

`smbpasswd` The Samba encrypted password file

`sssd` System Security Services Daemon

`setgid` set group identity

`mktemp` create a temporary file or directory

`true` do nothing, successfully

commands miscellanea 2 (cont)

`false` do nothing, unsuccessfully

`if` "use" a Perl module if a condition holds

`test` check file types and compare values

`exit` self explanatory

`w` displays who is logged in and what are they doing

`fg` brings the most recent background job to the foreground

`sleep` delay for a specified amount of time

`tac` concatenate and print files in reverse

`wall` write a message to all users

`whatis` display basic information about a command passed as parameter

`yes "-string"` infinitely outputs a string pass as parameter to the command