commands

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RHCSA RHEL

man command	
-h	
--help	
-?	
ctrl d	logout
Files, Directories	
pwd	current dir
cd ~/	home dir
$HOME	
cd .. cd- cd ~username cd	moves one dir up moves to previous dir goes to home dir goes go your home dir
cp file.txt tonewfile.txt cp -R /home/dir /home/newdir	 copies directories with -R
mv old_name new_name	renames files; also moves with mv /dir
mkdir -m777 -p /dir1/newdir/dir2 4 2 1 764	m sets perm. 777 is rwx -p makes newdir betw. dir1 and dir2 r w e users, group, others
chmod 764 file.txt	users rwx, group rw, others r
chown [option] owner[:group] file(s) chown userName:groupName file chwon user file.txt	 changes user and group for file makes user owner of file.txt
chgrp grpName fileName	change group
rmdir rm -r	rm remove forcefully
touch cat > fileName	make empty file
file file.txt	get type of file.txt
VIM	
gg	Beginning of file
ALT /	end of file
u	undo last change. capital u undo all changes
/	search
:set number	line numbers
vim filename +89	goes on line 89
CTRL Z fg bg jobs	minimizes vim file opens most recent job see job in bg see jobs
gzip, tar compression	
gzip fileName	with gzip compression
gunzip fileName.gz	
tar -cvf dir.tar /dir tar -cfz dir.tar /dir	uncompressed tar archive gzip tar rachive compression
-uvf -rvf	archives and adds to an existing archive -||-

-tvf	lists the contents of a file
tar -xf file.tar tar -xvg file.tar -C /dir	extract extart at a directory with -C

Lists	
df -mh	disk usage in mbs
du -sh	currect dir usage
head file.txt	show first 10 lines
tail -100 file.txt	show last 100 lines (10 by def)
wc file.txt	counts words/lines

Find	
locate -i two*words	search -i (not case sens.) * is empty spc
find /where -name name.txt find ./ -type d -name dirname	searches for directories
grep what file.txt	
nd /dir -name x nd /dir -size +100M	list items beginning with x

users, ,groups	
id who finger finger username pinky w whoami	show active user details logged users info on all logged users logged users and activity
last	last logins
cat /etc/passwd cat /etc/passwd | cut -d : -f 1	list users, rights only usenames
cat /etc/groups	list groups
adduser username userdel username	
passwd username	change pw
usermod -a -G groupname username	

system	
ssh user@host	
ping hostname	
hostname -i	hostname ip
uname -a; uptime	sys info
last reboot	
ip a	ipto e na inet

var, commands	
let variable=value	integer val.
set	lists variables and functions
echo $variable	display value
env	display all variables
unset varName	removes a var
alias name=command unalias name	
watch -n interval command watch -n 5 'ntpq -p'	run through an interval execute and display every 5 secs.
sleep interval && command	postpone cmnd execution
where is command	find binary/source/ manual for command

UTIL	

logrotate	
free -mh	
ps -ef ps -u username top htop	 all processes associated with the user improved top
pidof processName	get the process ID
kill PID	
RHCSA	
> >>	Writes to a file (and replace all in it) Adds at the end of the file
~ ls -al ~ > list	Root home dir Saves ls to list at home dir
sort < list -S -t	Get input from list and sort it by size last modified
ls -smth 2> file 2>&1	saves errors in a file AND displays them (stderr to sdtout)
grep '^music' file	grep all line starting with music
ls -l - if a file type begins with drw - directory lrw - link -rw - regural file	
ls -ltr	lists recently created
ls -li	lists inode info
ln	hard link (to the inode)
ln -s	soft link (to the file, if it's renamed the link is gone)
Ansible	
ls -la .ssh	list ssh keys
ssh-keygen -t ed25519	
ssh-copy-id -i ~/.ssh/id_ed25519.pub 10.0.2.4	
ssh -i ~/.ssh/ansible 10.0.2.4	
alias ssha='eval $(ssh-agent) && ssh-add'	to save the passphrase for main acc with alias. Add to nano .bashrc
git push pull status	
git clone git@github.com:usernam/ansible.git	set git rep, ssh
git config --global user.name ""	or user.email
git status git diff	check for changes
git add filename	
git commit -m "initial commit - readme file"	
git push git push origin main	push changes to files
git pull	pull changes
sudo apt update	
sudo apt install ansible	
vim inventory	<mark>write hosts</mark>; push to git
ansible all --key-file ~/.ssh/ansible -i inventory -m	but can shorten it with setting ansible.cfg ->

ping	
[defaults] inventory = inventory private_key_file = ~/.ssh/ansible	vim ansible.cfg
ansible all -m ping	
ansible all --list-hosts	
ansible all -m apt -a update_cache=true --become --ask-become-pass	
ansible all -m apt -a "name=snapd state=latest" --become --ask-become-pass	update to the latest version snapd
playbooks; install apache	
vim install_apache.yml	

--- 	
 	
- hosts: all
  become: true
  tasks:
 	
  - name: install apache2 package
    apt:
      name: apache2
      state: latest
 	
_____ <mark>or multiple</mark> _____
name:
    - apache2
    - libapache2-mod-php	

ansible-playbook --ask-become-pass install_apache.yml	then access it from the web(I had to enable the port): http://127.0.0.1:8080/
	when parameter
ansible-playbook --tags apache --ask-become-pass install_apache.yml	tags: apache, apache2, ubuntu

- hosts: all
  become: true
  tasks:
 	
  - name: install apache2 and php package
    apt:
      name:
        - apache2
        - libapache2-mod-php
      state: latest
      update_cache: yes
 	
  - name: install mariadb package (Ubuntu)
    apt:
      name: mariadb-server
      state: latest
    when: ansible_distribution == "Ubuntu"
 	
  - name: copy default html file for site
    tags: apache,apache2,httpd
    copy:
      src: default_site.html
      dest: /var/www/html/index.html
      owner: root
      group: root
      mode: 0644
	install apache, php, mariadb
	
	set html file for the apache site
	
	(tags are optional)

- name: start apache2 (Ubuntu)
    service:
      name: apache2
	manage services

state: started enabled: yes	

- name: edit line in file
  lineinfile:
    path:
/home/danasoft/ansible_tutorial/tutorial12
    regexp: '^edit here'
    line: This is the new line
	edit line in fine starting with edit here

- name: restart apache2 when changed
  service:
    name: apache2
    status: restarted
  when: apache2.changed
	restart when change is detected. at the play should be added:
	register: apache2