LAPORAN RESMI PRAKTIKUM SISTEM OPERASI LAPORAN II



JUDUL: 50 COMMAND REDHAT SERVER

Disusun Oleh:

TANGGAL PRAKTIKUM : 29 Januari 2024

NAMA : Rhamadani Inas Shabirah

NIM : 09030582226034

KELAS : TK4B

DOSEN PENGAMPU : ADI HERMANSYAH, S.KOM.,M.T

50 Command Linux menggunakan RedHat

Penjelasan Mengenai Command pada linux

Command di Red Hat, seperti di distribusi Linux lainnya, merupakan perintah yang digunakan untuk berinteraksi dengan sistem operasi melalui terminal atau shell. Command tersebut memungkinkan pengguna untuk melakukan berbagai tugas, mulai dari mengelola file dan direktori, menginstal dan mengelola paket perangkat lunak, konfigurasi jaringan, manajemen pengguna, hingga pemeliharaan sistem. Contoh command yang umum digunakan di Red Hat antara lain Is untuk menampilkan isi direktori, yum untuk mengelola paket, systemctl untuk mengelola layanan, dan masih banyak lagi.

COMMAND

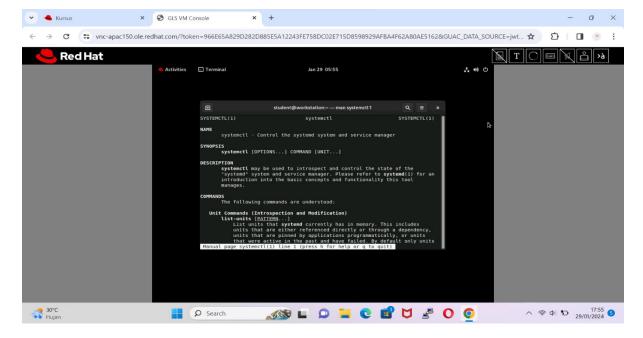
1. Is "Menampilkan daftar file dan direktori."



2. date "Menampilkan Tanggal dan Waktu Sekarang."



3. man systemctl "Digunakan untuk menampilkan manual atau dokumentasi."



4. sudo su "Digunakan untuk beralih ke akun pengguna superuser atau root."



5. exit "Digunakan untuk menutup terminal."

```
[root@workstation_student]# exit
exit
```

6. id "Menampilkan informasi tentang identitas pengguna."

```
[student@workstation -]$ id
uid=1000(student) groups=1000(student), 10(wheel) context=uncon
fined unuccnfined runconfined t:s0-50:c0.c1023
```

7. ifconfig "Menampilkan informasi antarmuka jaringan."

```
[student@workstation -]s ifconfig
cn:podmann. Plage=als3ep.BROBOGOST,RUMNING_PULTICAST> etu 1900
inct 10 80 8.1 netmask 295.255.0 0 proadcast 10.80.255.255
inct 10 80.1 netmask 295.255.0 netmask 295.255.0 net 10.80.255.255
inct 16 800:2454.771ff.ffces137/30 prefixien 64 scoppid 0020elinks
ether 26:6:71:e5:a7:30 tsqueuelen 1000 (Ethernet)
RX packets 431 bytes 21356 (20.8 KIB)
RX errors 0 dropped 0 o@erruns 0 frame 0
TX packets 825 bytes 5208 (50.8 KIB)
TX errors 0 dropped 0 owerruns 0 carrier 0 collisions 0
ethe: flage=sloid:up.Readcast, Running.Augusticast atu 1500
inet 172.25:250.9 netmask 205.255.255.0 broadcast 172.25.250.255
inet6 fe80:10034ff:fe80021609 broadcast 172.25.250.255
inet6 fe80:10034ff:fe80021609 broadcast 172.25.250.255
inet6 fe800216034ff:fe80021609 broadcast 172.250.250
inet6 fe800216
```

8. hostname -I "Digunakan untuk menampilkan alamat IP yang terkait dengan host atau sistem."

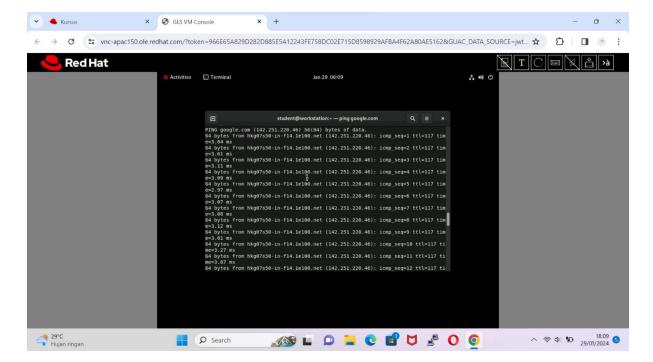
```
[student@workstation ~]$ hostname -I
172.25.250.9 10.88.0.1
```

9. whoami "Menampilkan nama pengguna saat ini."

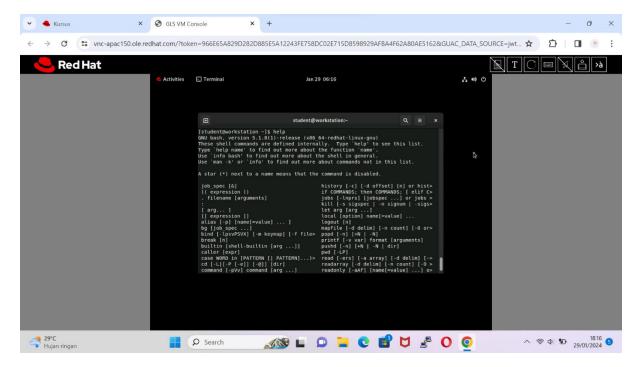
```
[student@workstation ~]$ whgami
student
```

10. netstat "Digunakan untuk menampilkan informasi berbagai aspek koneksi jarring

11. ping google.com "Menguji koneksi jaringan."



12. help "Digunakan untuk menampilkan bantuan atau petunjuk singkat terkait dengan perintah yang dijalankan di dalam shell bash."



13. cd "nama file" "Digunakan untuk berpindah dari satu direktori ke direktori lain di dalam sistem file."

[Student@workstation ~]s cd Music/
[student@workstation Music]s cd

14. cd - "Kembali ke direktori induk (parent directory)."

[student@workstation -]\$ cd -/home/student/Music 15. mkdir "Membuat direktori baru."

Istudent@workstation Music]\$ ls student@workstation Music]\$ ls sines

16. rmdir "Menghapus direktori kosong."

[student@workstation Music]\$ rmdir ines
[student@workstation Music]\$ rmdir ines
[student@workstation Music]\$ ls

17. ssh student@servera "Cara untuk melakukan koneksi ke server dengan menggunakan protokol Secure Shell (SSH)."

[student@workstation Music]\$ ssh student@servera
Warning: Permanently added 'servera' (ED25519) to the list of known hosts.
Activate the web console with: systemctl enable --now cockpit.socket
Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
[student@servera ~]\$

18. lab start logs-preserve "Untuk mengecek lab system"

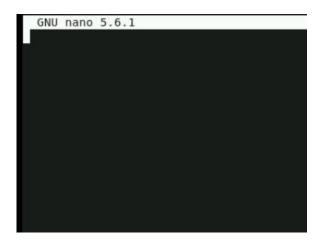
19. sudo -i "Digunakan untuk membuka sesi shell interaktif dengan hak istimewa superuser (root)."

```
[student@workstation ~]$ sudo -i
[sudo] password for student:
[root@workstation ~]#
```

20. sudo adduser user "Digunakan untuk menambahkan pengguna baru ke sistem."

```
[root@workstation ~]# sudo adduser user1
[root@workstation ~]#
```

21. sudo nano "nama file" "Digunakan untuk membuka teks editor nano dengan hak akses superuser (root). "



22. pwd "Menampilkan direktori kerja saat ini."

```
[student@workstation ~]$ pwd
/home/student
```

23. w "Menampilkan informasi pengguna yang sedang masuk dan aktivitas mereka."

```
[student@workstation ~]$ w
00:26:04 up 11 min, 1 user, load average: 0.00, 0.01, 0.00
USER TTY LOGIN@ IDLE JCPU PCPU WHAT
student :1 00:15 ?xdm? 15.24s 0.00s /usr/libexec/gdm-x-session --re
```

24. sudo gedit "nama file" "Digunakan untuk membuka teks editor Gedit dengan hak akses superuser (root)."

25. sudo systemctl reboot "Me-restart sistem."

26. ps "Menampilkan proses yang berjalan."

```
[student@workstation ~]$ ps
PID TTY TIME CMD
3112 pts/0 00:00:00 bash
3363 pts/0 00:00:00_ps
```

27. passwd "Mengganti kata sandi pengguna."

```
[student@workstation ~]$ passwd
Changing password for user student.
Current password:
New password:
BAD PASSWORD: The password contains the user name in some form
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
```

28. who "Menampilkan pengguna yang sedang masuk."

```
[student@workstation ~]$ who
student :1 202<mark>4</mark>-01-29 00:15 (:1)
```

29. uptime "Menampilkan informasi waktu aktif sistem."

```
[student@workstation ~]$ uptime
00:35:16 up 21 min, 1 user, load average: 0.00, 0.00, 0.00
```

30. crontab "Menjadwalkan tugas-tugas yang akan dijalankan secara berkala."

```
[student@workstation ~]$ crontab
crontab: usage error: file name or - (for stdin) must be specified
Usage:
 crontab [options] file
 crontab [options]
 crontab -n [hostname]
Options:
 -u <user>
            define user
            edit user's crontab
 - 6
 -1
            list user's crontab
 -r
            delete user's crontab
            prompt before deleting
 -i
 -n <host> set host in cluster to run users' crontabs
            get host in cluster to run users' crontabs
 - C
 -T <file>
            test a crontab file syntax
 -5
            selinux context
 -V
            print version and exit
 -x <mask> enable debugging
Default operation is replace, per 1003.2
```

31. Isof "Menampilkan file yang sedang digunakan oleh proses."

```
359680
           16808392 /usr/lib64/libgssapi krb5.so.2.2
lsof
          3259
                                                         REG
                                                                           252,4
                                      student mem
  617376
           16808083 /usr/lib64/libpcre2-8.so.0.10.2
lsof
                                      student mem
                                                         REG
                                                                           252,4
 2389384
           16807982 /usr/lib64/libc.so.6
lsof
          3259
                                      student mem
                                                         REG
                                                                           252,4
  197136
           16808406 /usr/lib64/libtirpc.so.3.0.0
lsof
                                      student mem
                                                         REG
                                                                           252,4
           16808086 /usr/lib64/libselinux.so.1
  172632
lsof
                                                                           252,4
                                      student mem
                                                         REG
  910704
          16807978 /usr/lib64/ld-linux-x86-64.so.2
lsof
          3259
                                                 41
                                                                            0,13
                                      student
                                                        FIF0
     0t0
              35687 pipe
lsof
          3259
                                      student
                                                 7w
                                                        FIF0
                                                                            0,13
     0t0
              35688 pipe
kworker/u 3260
                                         root cwd
                                                     unknown
                    /proc/3260/cwd (readlink: Permission denied)
kworker/u 3260
                                         root rtd
                                                     unknown
                    /proc/3260/root (readlink: Permission denied)
kworker/u 3260
                                         root txt
                                                     unknown
                    /proc/3260/exe (readlink: Permission denied)
kworker/u 3260
                                         root NOFD
                    /proc/3260/fd (opendir: Permission denied)
[student@workstation ~]$ lsof
```

32. ps aux "Menampilkan daftar semua proses yang sedang berjalan."

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	1	0.0	0.2	172068	16356	?	Ss	00:14	0:01	/usr/lib/syst
root	2	0.0	0.0	0	0	?	S	00:14	0:00	[kthreadd]
root	3	0.0	0.0	Θ	0	?	I<	00:14	0:00	[rcu_gp]
root	4	0.0	0.0	0	0	?	I<	00:14	0:00	[rcu_par_gp]
root	5	0.0	0.0	Θ	Θ	?	I	00:14	0:00	[kworker/0:0-
root	6	0.0	0.0	0	Θ	?	I<	00:14	0:00	[kworker/0:0H
root	9	0.0	0.0	Θ	Θ	?	I<	00:14	0:00	[mm_percpu_wq
root	10	0.0	0.0	0	0	?	S	00:14	0:00	[rcu_tasks_kt
root	11	0.0	0.0	0	0	?	S	00:14	0:00	[rcu_tasks_ru
root	12	0.0	0.0	0	0	?	S	00:14	0:00	[rcu_tasks_tr
root	13	0.0	0.0	Θ	Θ	?	S	00:14	0:00	[ksoftirqd/0]
root	14	0.0	0.0	Θ	Θ	?	I	00:14	0:00	[rcu_preempt]
root	15	0.0	0.0	Θ	Θ	?	S	00:14	0:00	[migration/0]
root	16	0.0	0.0	0	Θ	?	S	00:14	0:00	[cpuhp/0]
root	17	0.0	0.0	Θ	Θ	?	S	00:14	0:00	[cpuhp/1]
root	18	0.0	0.0	Θ	Θ	?	S	00:14	0:00	[migration/1]
root	19	0.0	0.0	0	0	?	S	00:14	0:00	[ksoftirqd/1]
root	21	0.0	0.0	Θ	Θ	?	I<	00:14	0:00	[kworker/1:0H
root	22	0.0	0.0	Θ	Θ	?	S	00:14	0:00	[cpuhp/2]
root	23	0.0	0.0	0	Θ	?	S	00:14	0:00	[migration/2]
root	24	0.0	0.0	0	0	?	S	00:14	0:00	[ksoftirqd/2]

33. du "Menampilkan penggunaan disk suatu direktori."

```
[student@workstation ~]$ du
        ./.ssh
20
4
        ./.config/containers
4
        ./.config/dconf
4
        ./.config/ibus/bus
4
        ./.config/ibus
4 4 0
        ./.config/pulse
        ./.config/evolution/sources
        ./.config/evolution
        ./.config/goa-1.0
4
        ./.config/gtk-3.0
0
        ./.config/gnome-session/saved-session
Θ
        ./.config/gnome-session
4
        ./.config/cloud-init
56
        ./.config
60
        ./.venv/labs/bin/__pycache__
        ./.venv/labs/bin
224
        ./.venv/labs/lib/python3.9/site-packages/wheel/cli/ pycache
4
28
        ./.venv/labs/lib/python3.9/site-packages/wheel/cli
28
        ./.venv/labs/lib/python3.9/site-packages/wheel/vendored/packaging/__pyca
che
64
        ./.venv/labs/lib/python3.9/site-packages/wheel/vendored/packaging
4
        ./.venv/labs/lib/python3.9/site-packages/wheel/vendored/__pycache_
68
        ./.venv/labs/lib/python3.9/site-packages/wheel/vendored
```

34. locate "nama file" "Mencari file dalam database lokal."

```
[student@workstation ~]$ locate Music /home/student/Music
```

35. df "Menampilkan informasi penggunaan disk."

```
[student@workstation ~]$ df
Filesystem
               1K-blocks
                            Used Available Use% Mounted on
                                              0% /dev
devtmpfs
                 2846028
                                    2846028
                              0
tmpfs
                 2902336
                              84
                                    2902252
                                              1% /dev/shm
                                             2% /run
tmpfs
                 1160936
                           17680
                                    1143256
/dev/vda4
                 9756652 5981824
                                    3774828 62% /
/dev/vda3
                  506528
                          186984
                                     319544
                                             37% /boot
                                              4% /boot/efi
/dev/vda2
                  204580
                             7148
                                     197432
tmpfs
                  580464
                             104
                                     580360
                                              1% /run/user/1000
/dev/sr0
                     492
                             492
                                          0 100% /run/media/student/config-2
```

36. find "nama file" "Mencari file atau direktori."

```
[student@workstation ~]$ find Music
Music
```

37. cal "Menampilkan kalender."

```
[student@workstation ~]$ cal
January 2024
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
```

38. dig "Menampilkan informasi DNS."

```
[student@workstation ~]$ dig
; <<>> DiG 9.16.23-RH <<>>
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 19828
;; flags: qr rd ra; QUERY: 1, ANSWER: 13, AUTHORITY: 0, ADDITIONAL: 27
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
; COOKIE: c0728d60b06b8331b01ee1de65b73dac8a768748fe16d043 (good)
;; QUESTION SECTION:
                                 IN
                                         NS
; .
;; ANSWER SECTION:
                         514992
                                 IN
                                         NS
                                                  h.root-servers.net.
                                         NS
                         514992
                                 IN
                                                  e.root-servers.net.
                         514992
                                 IN
                                         NS
                                                  k.root-servers.net.
                         514992
                                 IN
                                         NS
                                                  d.root-servers.net.
                                 IN
                                         NS
                         514992
                                                  i.root-servers.net.
                                                  g.root-servers.net.
                         514992
                                 IN
                                         NS
                         514992
                                 IN
                                         NS
                                                  a.root-servers.net.
                         514992
                                 IN
                                         NS
                                                  l.root-servers.net.
                         514992
                                         NS
                                 IN
                                                  j.root-servers.net.
```

39. top "Digunakan untuk memantau aktivitas sistem secara real-time."

[student@workstation ~]\$ top top - 00:56:06 up 41 min, 1 user, load average: 0.00, 0.00, 0.00 Tasks: 212 total, 1 running, 211 sleeping, 0 stopped, 0 zombie %Cpu(s): 0.1 us, 0.1 sy, 0.0 ni, 99.8 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st MiB Mem : 5668.6 total, 4289.6 free, 761.9 used, 617.1 buff/cache MiB Swap: 0.0 total, 0.0 free, 0.0 used. **4644.1** avail Mem PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND 3339 student 20 0 226052 4368 3540 R 0.3 0.1 0:00.02 top 0 0 1 root 20 172068 16356 10344 S 0.0 0.3 0:01.54 systemd 2 root 20 0 0 0 S 0.0 0.0 0:00.00 kthreadd 0 -20 3 root 0 0 0 I 0.0 0.0 0:00.00 rcu gp 4 root 0 -20 Θ 0 0 I 0.0 0.0 0:00.00 rcu par+ 20 0 5 root 0 0 0 I 0.0 0.0 0:00.00 kworker+ 0 0 0 6 root 0 0 I 0.0 0.0 0:00.00 kworker+ 9 root 0 -20 0 0 I 0.0 0.0 0:00.00 mm perc+ 20 0 20 0 20 0 20 0 10 root 0 0 S 0.0 0.0 0:00.00 rcu tas+ 0 5 11 root 0 0.0 0.0 0:00.00 rcu tas+ 0 5 12 root 0 0 0.0 0.0 0:00.00 rcu tas+ 0 S 13 root 20 Θ 0 0 0.0 0.0 0:00.00 ksoftir+ 0 I 14 root 20 Θ 0 0 0.0 0.0 0:00.04 rcu pre+ 0 S 15 root rt 0 0 0 0.0 0.0 0:00.00 migrati+

40. free "Menampilkan penggunaan memori."

[student@	workstation ~]\$ free				
	total	used	free	shared	buff/cache	available
Mem:	5804672	780516	4392064	22824	632092	4755148
Swap:	0	0	0			

41. route "Menampilkan dan mengonfigurasi routing tabel."

[student@works Kernel IP rout	station ~]\$ route ting table						
Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
default	bastion.lab.exa	0.0.0.0	UG	100	Θ	Θ	eth0
10.88.0.0 an0	0.0.0.0	255.255.0.0	U	Θ	Θ	Θ	cni-podm
172.25.250.0	0.0.0.0	255.255.255.0	U	100	Θ	Θ	eth0

42. history "Menampilkan riwayat perintah shell."

```
[student@workstation ~]$ history
   1
      shutdown -h now
   2
      ls
   3
      atq
   4 date
   5 systemctl start ssh
   6 man systemctl
      sudo su
   8
     id
   9 ipconfig
  10 ifconfig
      hostname -I
  11
  12 whoami
  13 netstart
  14 netstat
      msinfo32
  16 msinfo64
  17
     msinfo32 /computer
  18
      ping
      ping google.com
  19
  20
      help
  21
      echo
```

43. useradd -D "Digunakan untuk melihat atau mengonfigurasi default untuk pembuatan pengguna baru di sistem Linux."

```
[student@workstation ~]$ useradd -D
GROUP=100
HOME=/home
INACTIVE=-1
EXPIRE=
SHELL=/bin/bash
SKEL=/etc/skel
CREATE_MAIL_SPOOL=yes
```

44. killall -V "Digunakan untuk menampilkan informasi versi perangkat lunak (version) dari perintah tersebut."

```
[student@workstation ~]$ killall -V
killall (PSmisc) 23.4
Copyright (C) 1993-2021 Werner Almesberger and Craig Small
PSmisc comes with ABSOLUTELY NO WARRANTY.
This is free software, and you are welcome to redistribute it under
the terms of the GNU General Public License.
For more information about these matters, see the files named COPYING.
```

45. timedatectl "Perintah pada sistem operasi Linux yang digunakan untuk mengonfigurasi dan menampilkan informasi waktu dan tanggal sistem."

46. timedatectl list-timezones "Menampilkan daftar zona waktu yang tersedia."

```
[student@workstation ~]$ timedatectl list-timezones
Africa/Abidjan
Africa/Accra
Africa/Addis Ababa
Africa/Algiers
Africa/Asmara
Africa/Asmera
Africa/Bamako
Africa/Bangui
Africa/Banjul
Africa/Bissau
Africa/Blantyre
Africa/Brazzaville
Africa/Bujumbura
Africa/Cairo
Africa/Casablanca
Africa/Ceuta
Africa/Conakry
Africa/Dakar
Africa/Dar es Salaam
Africa/Djibouti
Africa/Douala
```

47. timedatectl set-timezone "zona waktu yang kalian inginkan" "Mengganti zona waktu sistem dengan yang diinginkan."

48. fg "Mengembalikan proses dari latar belakang ke depan."

```
[student@workstation ~]$ fg
timedatectl list-timezones
Asia/Almaty
Asia/Amman
Asia/Anadyr
Asia/Aqtau
Asia/Aqtobe
Asia/Ashqabat
Asia/Ashkhabad
Asia/Atyrau
Asia/Baghdad
Asia/Bahrain
Asia/Baku
Asia/Bangkok
Asia/Barnaul
Asia/Beirut
Asia/Bishkek
Asia/Brunei
Asia/Calcutta
Asia/Chita
Asia/Choibalsan
Asia/Chongging
Asia/Chungking
```

49. bg "Mengirim proses ke latar belakang."

```
[student@workstation ~]$ bg
[2]+ timedatectl list-timezones &
[2]+ Stopped timedatectl list-timezones
```

50. lsblk "Menampilkan informasi blok perangkat penyimpanan."

```
[student@workstation ~]$ lsblk
NAME
      MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
sr0
       11:0 1 492K 0 rom /run/media/student/config-2
vda
      252:0
             Θ
                 10G 0 disk
            0
-vda1 252:1
                   1M 0 part
 -vda2 252:2 0 200M 0 part /boot/efi
 -vda3 252:3
             0 500M 0 part /boot
 -vda4 252:4
                       0 part /var/lib/containers/storage/overlay
             0
                 9.3G
```