

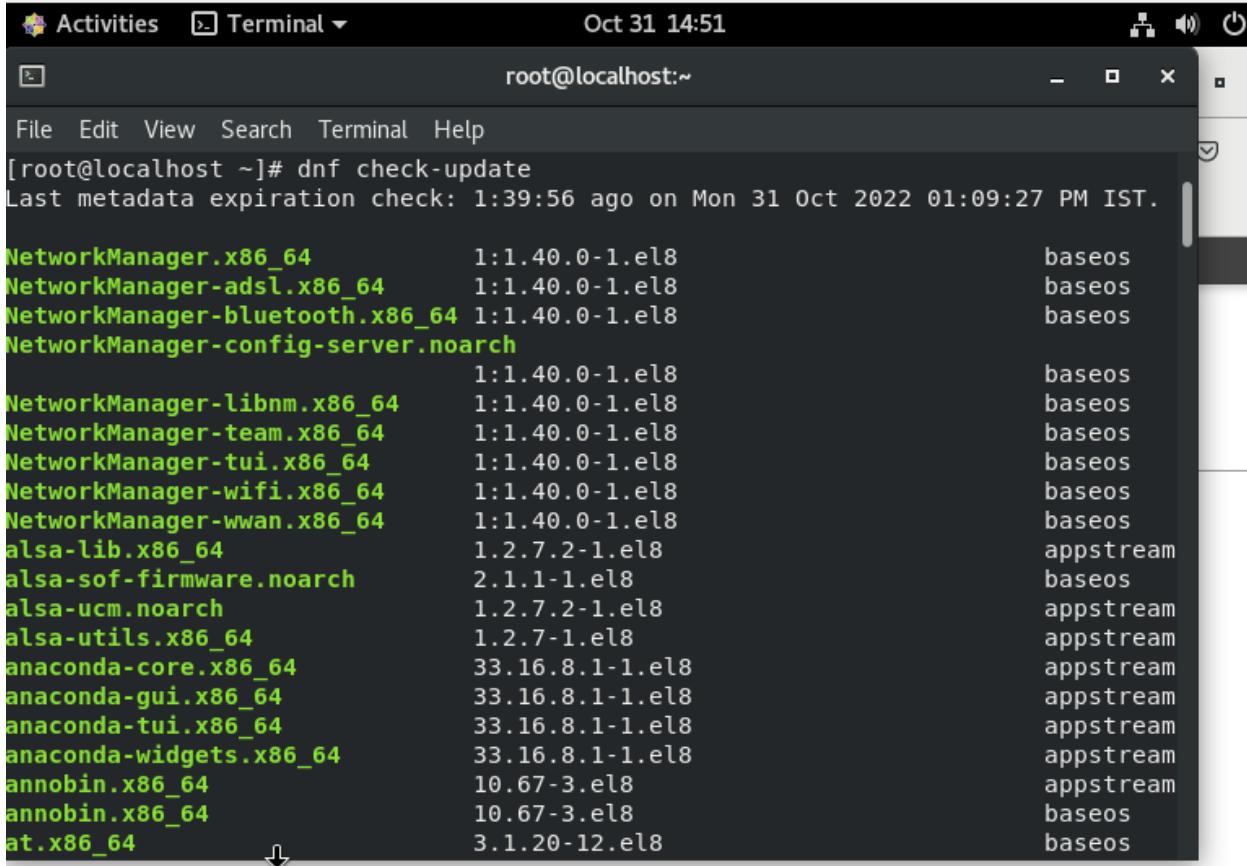
Module:-COSA(Concept Of Operating System And Administration)

Date:- 31/10/2022

Assignment :- 05

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36. check-update:-



The screenshot shows a terminal window titled "Terminal" with the command "root@localhost:~". The output of the "dnf check-update" command is displayed, showing various packages and their current versions and sources. The packages listed include NetworkManager, NetworkManager-adsl, NetworkManager-bluetooth, NetworkManager-config-server, NetworkManager-libnm, NetworkManager-team, NetworkManager-tui, NetworkManager-wifi, NetworkManager-wwan, alsa-lib, alsa-sof-firmware, alsa-ucm, alsa-utils, anaconda-core, anaconda-gui, anaconda-tui, anaconda-widgets, annobin, and at. The output indicates that most packages are at version 1:1.40.0-1.el8, while others like alsa-lib, alsa-sof-firmware, and alsa-ucm are at 1.2.7.2-1.el8, and annobin is at 10.67-3.el8.

```
[root@localhost ~]# dnf check-update
Last metadata expiration check: 1:39:56 ago on Mon 31 Oct 2022 01:09:27 PM IST.

NetworkManager.x86_64      1:1.40.0-1.el8      baseos
NetworkManager-adsl.x86_64  1:1.40.0-1.el8      baseos
NetworkManager-bluetooth.x86_64 1:1.40.0-1.el8  baseos
NetworkManager-config-server.noarch
                               1:1.40.0-1.el8  baseos
NetworkManager-libnm.x86_64  1:1.40.0-1.el8      baseos
NetworkManager-team.x86_64  1:1.40.0-1.el8      baseos
NetworkManager-tui.x86_64   1:1.40.0-1.el8      baseos
NetworkManager-wifi.x86_64  1:1.40.0-1.el8      baseos
NetworkManager-wwan.x86_64  1:1.40.0-1.el8      baseos
alsa-lib.x86_64            1.2.7.2-1.el8     appstream
alsa-sof-firmware.noarch   2.1.1-1.el8       baseos
alsa-ucm.noarch            1.2.7.2-1.el8     appstream
alsa-utils.x86_64          1.2.7-1.el8       appstream
anaconda-core.x86_64        33.16.8.1-1.el8  appstream
anaconda-gui.x86_64         33.16.8.1-1.el8  appstream
anaconda-tui.x86_64         33.16.8.1-1.el8  appstream
anaconda-widgets.x86_64     33.16.8.1-1.el8  appstream
annobin.x86_64              10.67-3.el8      appstream
annobin.x86_64              10.67-3.el8      baseos
at.x86_64                  3.1.20-12.el8    baseos
```

37.epel *:-

```

Activities Terminal Oct 31 15:43
root@localhost:~-

File Edit View Search Terminal Help
[root@localhost ~]# dnf install epel*
Extra Packages for Enterprise Linux 8 - x86_64 215 kB/s | 13 MB 01:02
Extra Packages for Enterprise Linux Modular 8 - 93 kB/s | 733 KB 00:07
Extra Packages for Enterprise Linux 8 - Next - 150 kB/s | 1.4 MB 00:09
Last metadata expiration check: 0:00:03 ago on Mon 31 Oct 2022 03:42:15 PM IST.
Package epel-next-release-8-11.el8.noarch is already installed.
Package epel-release-8-11.el8.noarch is already installed.
Dependencies resolved.

=====
Package           Architecture Version      Repository  Size
=====
Installing:
epel-rpm-macros          noarch    8-33        epel       24 k
epel-rpm-macros-systemd   noarch    8-33        epel       14 k
Upgrading:
epel-next-release          noarch    8-17.el8   epel       11 k
epel-release               noarch    8-17.el8   epel       24 k
Installing dependencies:
ansible-srpm-macros       noarch    1-8.1.el8  epel       8.5 k
fpc-srpm-macros           noarch    1.3-1.el8  epel       8.2 k
lua-srpm-macros           noarch    1-3.el8   epel       8.1 k

Transaction Summary
=====

[ Continue ]

```

38.top:- The top program provides a dynamic real-time view of a running system. It can display system summary information as well as a list of processes or threads currently being managed by the Linux kernel. The types of system summary information shown and the types, order and size of information displayed for processes are all user configurable and that configuration can be made persistent across restarts.

```

Activities Terminal Nov 1 10:44
root@localhost:~-

File Edit View Search Terminal Help
top - 10:44:51 up 1 day, 4:13, 2 users, load average: 0.87, 0.26, 0.09
Tasks: 218 total, 1 running, 217 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni, 99.0 id, 0.0 wa, 1.0 hi, 0.0 si, 0.0 st
MiB Mem : 1812.8 total, 143.1 free, 1181.1 used, 488.6 buff/cache
MiB Swap: 2104.0 total, 2.1 free, 2101.9 used. 468.1 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
6911 root 20 0 3037492 162008 20388 S 1.3 8.7 17:09.98 Web Content
2120 root 20 0 3213836 118592 25316 S 0.7 6.4 2:54.96 gnome-shell
7202 cockpit+ 20 0 598484 0 0 S 0.3 0.0 0:17.10 cockpit-tls
7266 root 20 0 911612 16416 2800 S 0.3 0.9 1:07.68 cockpit-bridge
1 root 20 0 241796 7008 3612 S 0.0 0.4 0:41.00 systemd
2 root 20 0 0 0 0 S 0.0 0.0 0:00.05 kthreadd
3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_gp
4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu_par_gp
6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-e+
8 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_percpu_wq
9 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_rude_
10 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_trace
11 root 20 0 0 0 0 S 0.0 0.0 0:11.19 ksoftirqd/0
12 root 20 0 0 0 0 I 0.0 0.0 0:00.34 rcu_sched
13 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/0
14 root rt 0 0 0 0 S 0.0 0.0 0:00.10 watchdog/0
15 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0
17 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kdevtmpfs

```

39.atop

Activities Terminal ▾ Oct 31 15:44

root@localhost:~

```
File Edit View Search Terminal Help
Complete!
[root@localhost ~]# dnf install atop
Last metadata expiration check: 0:00:37 ago on Mon 31 Oct 2022 03:42:15 PM IST.
Dependencies resolved.
=====
 Package           Architecture      Version       Repository      Size
=====
Installing:
 atop             x86_64          2.7.1-1.el8   epel            182 k

Transaction Summary
=====
Install 1 Package

Total download size: 182 k
Installed size: 390 k
Is this ok [y/N]: y
Downloading Packages:
atop-2.7.1-1.el8.x86_64.rpm      62 kB/s | 182 kB   00:02
-----
Total                                         42 kB/s | 182 kB   00:04
Running transaction check
Transaction check succeeded.
Running transaction test
```

Continue

Activities Terminal Oct 31 15:44 root@localhost:~

```
File Edit View Search Terminal Help
ATOP - localhost 2022/10/31 15:44:39 ----- 2d21h39m37s elapsed
PRC | sys 7m15s | user 5m08s | #proc 212 | #zombie 0 | #exit 0 |
CPU | sys 0% | user 0% | irq 1% | idle 99% | wait 0% |
CPL | avg1 0.34 | avg5 0.41 | avg15 0.19 | csw 35544874 | intr 19151e3 |
MEM | tot 1.9G | free 144.4M | buff 1.0M | slab 127.0M | numnode 1 |
SWP | tot 4.0G | free 3.2G | swcac 53.2M | vmcom 4.4G | vmlim 5.0G |
PAG | numamig 0 | migrate 20e4 | swin 157669 | swout 360173 | oomkill 0 |
DSK | sda | busy 0% | read 123047 | write 41691 | avio 2.74 ms |
NET | transport | tcpi 332396 | tcpo 134074 | udpi 1239 | udpo 4035 |
NET | network | ipi 438740 | ipo 139172 | ipfrw 0 | deliv 334282 |
NET | enp0s3 0% | pcki 687269 | pcko 139838 | si 21 Kbps | so 0 Kbps |
NET | lo ---- | pcki 530 | pcko 530 | si 0 Kbps | so 0 Kbps |

PID SYSCPU USRCPU RDELAY VGROW RGROW RDDSK WRDSK CPU CMD 1/22
1684 86.36s 2m07s 80.33s 3.1G 139.0M 311.1M 1.6M 0% gnome-shell
837 1m48s 34.91s 5m43s 689.0M 8.4M 4.4M 12.0K 0% tuned
1824 20.17s 78.96s 3.45s 391.4M 24.4M 4.9M 4.0K 0% sssd_kcm
1411 50.40s 25.33s 9.90s 1.4G 513.8M 3.6G 204.3M 0% packagekitd
51826 28.49s 11.29s 1m44s 3.4G 209.1M 438.2M 237.5M 0% firefox
50756 22.38s 5.99s 61.04s 1.5G 30.0M 9.8M 0B 0% gnome-control-
1849 23.81s 0.45s 7.38s 668.3M 3.8M 1.5M 0B 0% gsd-smartcard
1955 9.63s 4.37s 12.14s 1.2G 103.9M 120.6M 8.6M 0% gnome-software
11 13.40s 0.00s 71.03s 0B 0B 0B 0B 0% ksoftirqd/0
1732 4.77s 2.73s 11.08s 586.9M 5.3M 2.4M 4.0K 0% ibus-daemon
```

Continue

40.htop:-

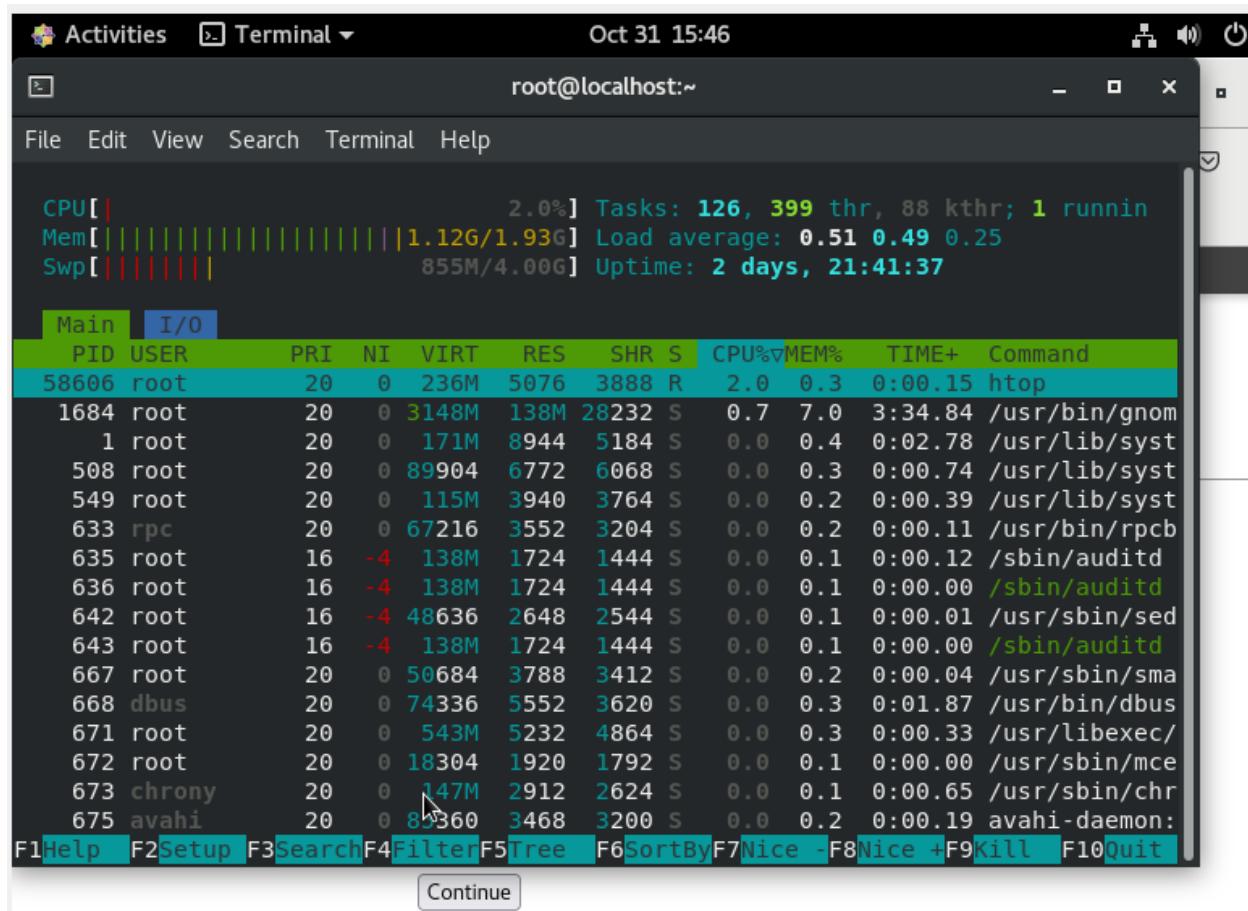
Activities Terminal Oct 31 15:46

root@localhost:~

```
[root@localhost ~]# atop
[root@localhost ~]# dnf install htop
Last metadata expiration check: 0:03:12 ago on Mon 31 Oct 2022 03:42:15 PM IST.
Dependencies resolved.
=====
Package           Architecture      Version       Repository      Size
=====
Installing:
  htop             x86_64          3.2.1-1.el8   epel            170 k

Transaction Summary
=====
Install 1 Package

Total download size: 170 k
Installed size: 396 k
Is this ok [y/N]: y
Downloading Packages:
htop-3.2.1-1.el8.x86_64.rpm          110 kB/s | 170 kB    00:01
-----
Total                                         54 kB/s | 170 kB    00:03
Running transaction check
Transaction check succeeded.
Running transaction test
```



41. glances:-

Activities Terminal ▾ Oct 31 15:47

root@localhost:~

File Edit View Search Terminal Help

Complete!

```
[root@localhost ~]# htop
[root@localhost ~]# dnf install glances
Last metadata expiration check: 0:04:56 ago on Mon 31 Oct 2022 03:42:15 PM IST.
Dependencies resolved.
=====
Package           Architecture Version       Repository  Size
=====
Installing:
glances          noarch      3.3.0.1-1.el8   epel        642 k
Installing dependencies:
python3-bottle    noarch      0.12.21-2.el8   epel        100 k
python3-defusedxml noarch      0.6.0-1.el8    epel         52 k
python3-future    noarch      0.18.2-2.el8   epel        790 k
Transaction Summary
=====
Install 4 Packages
```

Total download size: 1.5 M
Installed size: 6.4 M
Is this ok [y/N]: y
Downloading Packages:

(1/4): python3-defusedxml-0.6.0-1.el8.noarch.rpm 50 kB/s | 52 kB 00:01

Activities Terminal Oct 31 15:48

root@localhost:~

File Edit View Search Terminal Help

localhost.localdomain Uptime: 2 days, 21:43:31

	CPU	↓	2.8%	MEM	-	66.7%	SWAP	-	22.7%	LOAD	-	lcore
CPU	[2.8%]	user	0.0%	total	1.93G	total	4.00G	1 min	0.15			
MEM	[66.7%]	system	0.0%	used	1.28G	used	931M	5 min	0.37			
SWAP	[22.7%]	iowait	0.0%	free	658M	free	3.09G	15 min	0.23			

	NETWORK	Rx/s	Tx/s	TASKS	214 (612 thr)	, 3 run, 154 slp, 57 oth						
enp0s3		0b	0b									
lo		0b	0b									
virbr0		0b	0b	>2.4	1.9	59076 root 1 0 R python3 /u						
					0.5	7.5 51826 root 81 0 S firefox						
FILE SYS	Used	Total	CPU%	MEM%	PID	USER	THR	NI	S			
/ (sda2)	6.80G	13.0G	0.5	1.4	50756	root 5 0 R gnome-cont						
/home	46.7M	1.99G	0.0	22.8	1411	root 3 0 S packagekit						
					0.0	4.8 1955 root 4 0 S gnome-soft						
					0.0	2.3 52153 root 15 0 S firefox -c						
					0.0	1.7 52502 root 15 0 S firefox -c						
					0.0	1.2 1824 root 1 0 S sssd_kcm -						
					0.0	1.1 50048 root 4 0 S gnome-term						
					0.0	1.1 52050 root 15 0 S firefox -c						
					0.0	1.0 52080 root 15 0 S firefox -c						

2022-10-31 15:48:32 IST

Continue

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