Lab 6

System monitoring commands

Commands:

1. ps Command

Syntax:

ps [options]

Description:

The ps command is used to display information about active processes. It provides a snapshot of the current processes along with details such as process ID (PID), user, CPU usage, memory usage, and more.

Example:

ps -aux

This command displays detailed information about all processes, including those not associated with a terminal.



```
momik@pop-os: ~
                                                              Q ≡
11
momik@pop-os:~$ ps -x
   PID TTY STAT
                      TIME COMMAND
  2854 ? Ss
2855 ? S
                      0:00 /lib/systemd/systemd --user
                      0:00 (sd-pam)
                      0:15 /usr/bin/pipewire
         S<sl
  2864 ?
  2866 ? S<sl 0:00 /usr/bin/wireplumber
  2867 ?
               S<sl 0:15 /usr/bin/pipewire-pulse
                      0:00 /usr/bin/dbus-broker-launch --scope user
  2870 ?
               SNs
  2873 ?
               SNl
                      0:00 /usr/bin/gnome-keyring-daemon --daemonize --login
               S
                      0:01 dbus-broker --log 4 --controller 10 --machine-id 2c
  2875 ?
            SNsl+
                       0:00 /usr/libexec/gdm-x-session --run-script env GNOME_
  2894 tty2
                     10:10 /usr/lib/xorg/Xorg vt2 -displayfd 3 -auth /run/user
            S<l+
  2896 tty2
                     0:00 /usr/libexec/gnome-session-binary --session=pop
  2908 tty2
               SNl+
               SNsl 0:00 /usr/libexec/at-spi-bus-launcher
  2963 ?
                      0:00 /usr/bin/dbus-broker-launch --config-file=/usr/shar
  2968 ?
               SN
                      0:01 dbus-broker --log 4 --controller 9 --machine-id 2c5
  2969 ?
                      0:00 /usr/libexec/gnome-session-ctl --monitor
  2980 ?
               SNsl
  2991 ?
               SNsl
                      0:00 /usr/libexec/gvfsd
               SNl
                      0:00 /usr/libexec/gvfsd-fuse /run/user/1000/gvfs -f
  2998 ?
                      0:00 /usr/libexec/gnome-session-binary --systemd-service
               SNsl
  2999 ?
          S<sl
                      9:23 /usr/bin/gnome-shell
  3029 ?
                      0:00 /usr/libexec/xdg-permission-store
               SNsl
  3048 ?
                      0:00 /usr/libexec/gnome-shell-calendar-server
               SNsl
  3050 ?
                      0:00 /usr/libexec/evolution-source-registry
  3060 ?
               SNsl
```





Commands:

2. who Command

Syntax:

who [options]

Description:

The who command shows who is currently logged into the system. It can display various details about user sessions such as login name, terminal line, login time, and remote host.

Example:

who -H -b

This command displays the headers and the last system boot time.

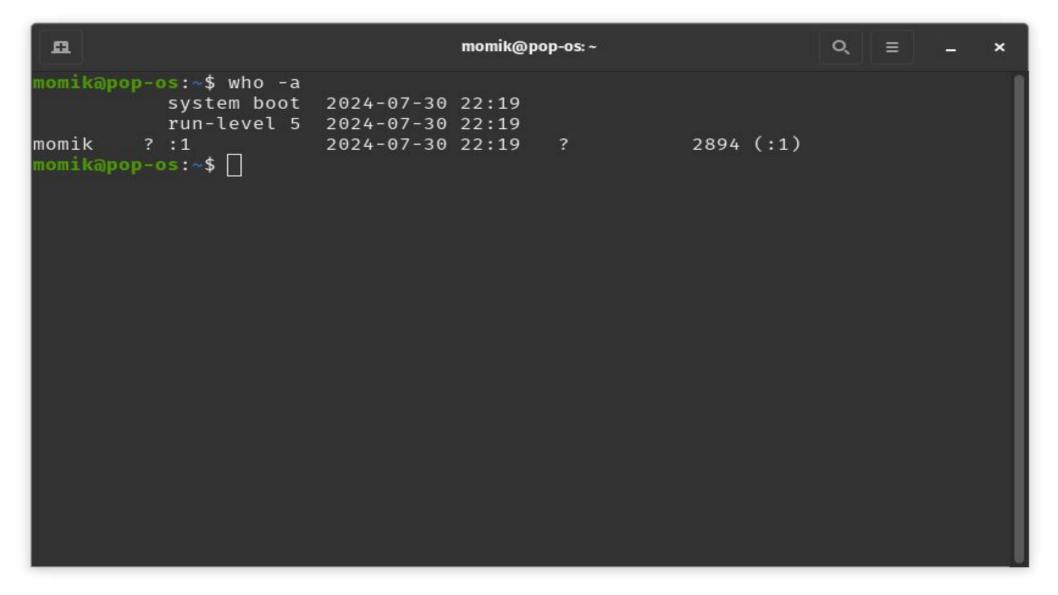






momik@pop-os: ~ Q ≣ _ • momikapop-os:~\$ who -r run-level 5 2024-07-30 22:19 momikapop-os:~\$









Commands:

3. top Command

Syntax:

top [options]

Description:

The top command provides a dynamic, real-time view of running system processes. It displays system summary information as well as a list of tasks currently being managed by the Linux kernel.

Example:

top -n 10

This command updates the display 10 times and then exits.



B					momik	@pop-os: ~	3			Q =	= ×		
NAME AND ADDRESS OF THE PARTY O	top - 00:10:47 up 1:51, 1 user, load average: 0.78, 0.96, 1.28 Tasks: 295 total, 1 running, 294 sleeping, 0 stopped, 0 zombie %Cpu(s): 2.5 us, 3.2 sy, 7.4 ni, 86.7 id, 0.1 wa, 0.0 hi, 0.1 si, 0.0 st												
										, 0.1 si, 8.8 buff/c			
										0.3 avail			
PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND		
A 100 A	momik	26	6			272320		19.7	4.4				
	momik	26	6	2653796	235104	105964	S	11.5	1.4	1:27.22	Isolate+		
1/4/1/2015	momik	17		7417324				5.6	1.2				
20,000,000	momik	17	-3	4270800	294180	138880	S	3.6	1.8		gnome-s+		
8133	momik	14	-6	2985944	490680	121184	S	2.3	3.0	6:33.54	Isolate+		
18155	momik	20	0	561252	53324	39532	S	2.3	0.3	0:13.61	gnome-t+		
3686	momik	26	6	18.8g	177328	92972	S	1.6	1.1	3:41.08	WebExte+		
17608	momik	26	6	2416392	46564	34176	S	1.3	0.3	0:00.47	Web Con+		
8184	momik	14	-6	2818032	215848	111408	S	1.0	1.3	2:01.97	Isolate+		
682	root	32	12	332564	15104	12928	S	0.7	0.1	0:18.51	touchegg		
3169	momik	26	6	162796	7680	6912	S	0.7	0.0	0:07.12	at-spi2+		
8308	momik	26	6	2878144	227304	108396	S	0.7	1.4	3:14.52	Isolate+		
19118	momik	26	6	23364	4480	3584	R	0.7	0.0	0:00.12	top		
15	root	20	0	0	Θ	Θ	S	0.3	0.0	0:23.91	ksoftir+		
740	redis	32	12	82208	13184	8832	S	0.3	0.1	0:14.02	redis-s+		
2121	root	32	12	1238400	12900	9600	S	0.3	0.1	0:00.94	contain+		
8059	root	20	Θ	0	0	Θ	Ι	0.3	0.0	0:02.18	kworker+		



PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
19195	momik	20	0	23364	4224	3456	R	12.5	0.0	0:00.03	top
3029	momik	17	-3	4281644	294088	138880	S	6.2	1.8	10:01.94	gnome-s+
3636	momik	26	6	2524360	130716	92616	S	6.2	0.8	0:14.31	Privile+
8133	momik	14	-6	2985944	494204	121184	S	6.2	3.0	6:33.94	Isolate+
2854	momik	20	Θ	18204	10368	7808	S	0.0	0.1	0:00.91	systemd
2855	momik	20	0	172024	5928	1664	S	0.0	0.0	0:00.00	(sd-pam)
2864	momik	-50	-15	126420	15060	9556	S	0.0	0.1	0:15.81	pipewire
2866	momik	11	-9	344680	18688	13568	S	0.0	0.1	0:01.27	wireplu+
2867	momik	-50	-15	120540	16572	8368	S	0.0	0.1	0:15.99	pipewir+
2870	momik	29	9	9708	3712	3456	S	0.0	0.0	0:00.04	dbus-br+
2873	momik	32	12	250716	7448	6528	S	0.0	0.0	0:00.08	gnome-k+
2875	momik	20	0	7084	4472	2304	S	0.0	0.0	0:02.03	dbus-br+
2894	momik	26	6	172244	5888	5504	S	0.0	0.0	0:00.00	gdm-x-s+
2896	momik	17	-3	7435708	197828	135404	S	0.0	1.2	11:09.24	Xorg
2908	momik	26	6	232888	15744	13952	S	0.0	0.1	0:00.03	gnome-s+
2963	momik	29	9	309796	7808	7168	S	0.0	0.0	0:00.00	at-spi-+
2968	momik	26	6	9556	3712	3456	S	0.0	0.0	0:00.00	dbus-br+