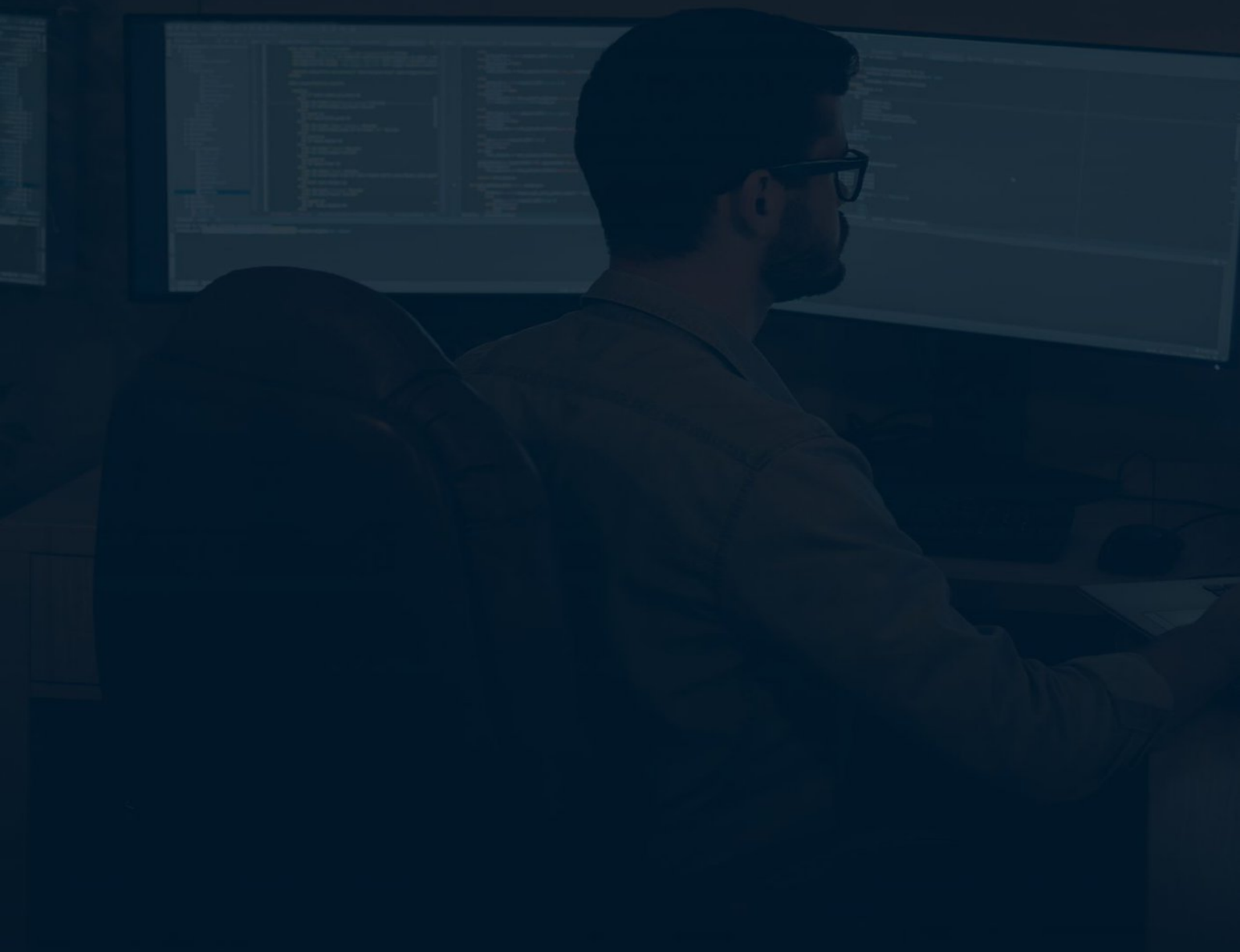
OPEN-SOURCE EBOOK

++101 Linux Commands



BOBBY ILIEV

Action: --- Output the memory usage - available and used, as well as swap

Details: --- Outputted values are not human-readable (are in bytes)

Command:

```
free
```

Action: --- Output the memory usage - available and used, as well as swap

Details: --- Outputted values ARE human-readable (are in GB / MB)

Command:

```
free -h
```

top/htop

`top` is the default command-line utility that comes pre-installed on Linux distributions and Unix-like operating systems. It is used for displaying information about the system and its top CPU-consuming processes as well as RAM usage.

`htop` is interactive process-viewer and process-manager for Linux and Unix-like operating system based on ncurses. If you take top and put it on steroids, you get htop.

Feature	top	htop
Type	Interactive system-monitor, process-viewer and process-manager	Interactive system-monitor, process-viewer and process-manager
Operating System	Linux distributions, macOS	Linux distributions, macOS
Installation	Built-in and is always there. Also has more adoption due to this fact.	Doesn't come preinstalled on most Linux distros. Manual installation is needed
User Interface	Basic text only	Colorful and nicer text-graphics interface
Scrolling Support	No	Yes, supports horizontal and vertical scrolling
Mouse Support	No	Yes
Process utilization	Displays processes but not in tree format	Yes, including user and kernel threads
Scrolling Support	No	Yes, supports horizontal and vertical scrolling
Mouse Support	No	Yes
Process utilization	Displays processes but not in tree format	Yes, including user and kernel threads
Network Utilization	No	No
Disk Utilization	No	No
Comments	Has a learning curve for some advanced options like searching, sending messages to processes, etc. It is good to have some knowledge of top because it is the default process viewer on many systems.	Easier to use and supports vi like searching with `/`. Sending messages to processes (kill, renice) is easier and doesn't require typing in the process number like top.

top

1. To display dynamic real-time information about running processes:

```
top
```

2. Sorting processes by internal memory size (default order - process ID):

```
top -o mem
```

3. Sorting processes first by CPU, then by running time:

```
top -o cpu -O time
```

4. Display only processes owned by given user:

```
top -user {user_name}
```

htop

1. Display dynamic real-time information about running processes. An enhanced version of `top`.

```
htop
```

2. displaying processes owned by a specific user:

```
htop --user {user_name}
```

3. Sort processes by a specified `sort_item` (use `htop --sort help` for

available options):

```
htop --sort {sort_item}
```

```
$ passwd
```

passwd

```
$ passwd [options] [LOGIN]
```

```
-a, --all
        This option can be used only with -S and causes show
status for all users.

-d, --delete
        Delete a user's password.

-e, --expire
        Immediately expire an account's password.

-h, --help
        Display help message and exit.

-i, --inactive
        This option is used to disable an account after the
password has been expired for a number of days.

-k, --keep-tokens
        Indicate password change should be performed only for
expired authentication tokens (passwords).

-l, --lock
        Lock the password of the named account.

-q, --quiet
        Quiet mode.

-r, --repository
        change password in repository.

-S, --status
        Display account status information.
```

w

The `w` command displays information about the users that are currently active on the machine and their processes.

1. Running the `w` command without arguments shows a list of logged on users and their processes.

```
w
```

2. Show information for the user named *hope*.

```
w hope
```

```
finger [-l] [-m] [-p] [-s] [username]
```

Short Flag	Long Flag	Description
`-h`	`--no-header`	Don't print the header.
`-u`	`--no-current`	Ignores the username while figuring out the current process and cpu times. *(To see an example of this, switch to the root user with `su` and then run both `w` and `w -u`.)*
`-s`	`--short`	Display abbreviated output *(don't print the login time, JCPU or PCPU times).*

This is a sample from "101 Linux Commands eBook" by Bobby Iliev the Hacktoberfest community.

For more information, Click here.