2.23. /RUN 1



Exercise 2.1 Sizes of the Default Linux Directories

Use the du utility to calculate the overall size of each of your system's top-level directories.

Type the command:

```
$ du --help
```

for hints on how to obtain and display this result efficiently.

Solution 2.1

To obtain a full list of directories under / along with their size:

```
$ sudo du --max-depth=1 -hx /
4.3M
       /home
16K
       /lost+found
39M
       /etc
4.0K
       /srv
3.6M
       /root
178M
       /opt
138M
        /boot
        /usr
6.1G
1.1G
        /var
16K
        /mnt
4.0K
       /media
869M
        /tmp
8.4G
```

Where we have used the options:

- --maxdepth=1: Just go down one level from / and sum up everything recursively underneath in the tree.
- -h: Give human-readable numbers (KB, MB, GB).
- -x Stay on one filesystem; don't look at directories that are not on the / partition. In this case that means ignore:

```
/dev /proc /run /sys
```

because these are pseudo-filesystems which exist in memory only; they are just empty mount points when the system is not running. Because this is a **RHEL 7** system, the following mount points are also not followed:

```
/bin /sbin /lib /lib64
```

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since they are just symbolically linked to their counterparts under /usr.

