**Exercise**

Basic linux commands:

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| **Command** | **What it’s doing** |
| pwd | Print working directory you’re in |
| whoami | See your username |
| cd / | Change directory to the root (top level) directory |
| ls | List contents of current directory |
| cd workspaces | Change directory to ‘workspaces’ |
| ls -lath | List contents with details |
| cd codespaces-blank | Change to /workspaces/codespaces-blank directory |
| cd .. | Change directory to one level up |
| cd - | Change directory to where you were last |
| cd linux\_docker\_exercise/ | Change directory to exercise folder |

Docker commands

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| **Command** | **What it’s doing** |
| docker ps | Check status of running containers |
| docker images | Check what images are downloaded |
| docker run hello-world | Run a test container to make sure docker is working |
| docker run -it ubuntu bash | Run ubuntu container and go to command line |
| CTL+C | Exit out of container command line and go back to codespace command line |
| docker ps -a | Check status of all containers (running and stopped) |
| docker rm (name) | Remove container by name |
| docker pull rocker/tidyverse:4.3.1 | Pull image rocker/tidyverse:4.3.1 from docker hub |
| docker run -p 8787:8787 rocker/tidyverse:4.3.1 | Run tidyverse container on port 8787 |
| docker run -dit -p 9000:8787 -v /workspaces/codespaces-blank:/home/rstudio --name rstudio1 -e PASSWORD=test rocker/tidyverse:4.3.1 | Run tidyverse container with lots of options: port 9000, connect files to container, name it rstudio1, set a password |
| bash docker/rstudio-run.sh -h | Look at options for running custom rstudio workspace container |
| bash docker/rstudio-run.sh | Run rstudio workspace container |
| bash docker/jupyterlab-run.sh -h | Look at options for running custom rstudio workspace container |
| bash docker/jupyterlab-run.sh | Run rstudio workspace container |
| docker ps -a | Check status of all containers (running and stopped) |
| docker stop $(docker ps -aq) | Stop all docker containers |
| docker rm $(docker ps -aq) | Remove all docker containers |