

Starting and Stopping Containers



Starting a Shell Session

- To begin a session in our course's environment:
 1. Open a terminal program:
 - **Terminal** on MacOS
 - **Windows Terminal** on Windows
 2. Change your working directory to learncli211: **cd learncli211**
 3. Run the learncli script to start a container
 - MacOS: ./learncli.sh**
 - Windows: .\learncli.ps1**
- The above steps connect your terminal to a Linux container running an interactive bash shell process.
 - You will know when you are working in our course container because its prompt string is **learncli\$** which is different from your host machine's.

What is a container?

- A process ("running program") that is intentionally:
 1. "Sandboxed " or isolated from your host operating system
 2. Consistently configured each time you start it
 - By default, any changes you make inside of a container are ephemeral and reset on restart
 - We will see how to share files between a container and your host OS to save work
 3. Built and shared in such a way it is easy to distribute with confidence
- Why are we using containers?
 - An even, consistent playing field and configuration for everyone enrolled!
 - We've prepackaged a significant number of great tools on the course container.
 - Containers are now widely used in industry by all major players for these properties.

Ending a Shell Session

- To end a session you should run the **exit** command.
 - Do not just close your terminal window without exiting!
 - Doing so will leave the session running in the background.
- If you forget, from your host terminal, run **docker ps**
 - The **ps** is short for "process" and you will see the origination of this soon
 - A list of your running containers will print, if any.
 - To stop a container, run the command: **docker stop [id]**
 - Replace [id] with the first few characters of the container's ID
- Still having trouble? Restart the Docker Daemon
 - Look for its icon in your System Tray (near your date / time).
 - Click on the Docker icon and select "Restart..."
 - If that fails, reboot your computer.

Next Steps

- Follow along with Chapter 1 "The Sorcerer's Shell" in its entirety!
 - From Learn a Command-line Interface PDF in Sakai
 - Actively follow the examples! Take a page of notes!