

Welcome to COMP-10280

What is a Container?

Very overloaded* term

**fancy computer science term for “same word, different meanings”*

Course Goal

Understand the differences between “traditional” (V-Sphere, XEN) virtualization and “application” virtualization (Docker)

Understand what each gives you, and what each “costs” you.

Explore the operational implications of both strategies.

Tool Kit

It is each student's responsibility to manage their own lab environment.

The labs have been tested with Debian 12, *bookworm*, using packages strictly from the Debian repositories. A VirtualBox appliance is supplied containing a minimal *bookworm* VM.

Adventurous students may make any substitutions they choose.

Evaluation Scheme

100% activity based

No tests

Many reasonable sized assignments

Basic Structure

Most week's classes will start with a lecture or demonstration.

A pace of approximately one lab per week is recommended.

Course Philosophy

Learn the tools

Apply the tools to exercises that simulate tasks you may face in a production environment