Welcome to COMP-10097

Virtualization

Not 'new'

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.

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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.

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Course Philosophy

Learn the tools

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