

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.

Tool Kit

Mix of distro's:

- Ubuntu (20.04 Focal Fossa)**
- CentOS Stream 8**

Docker CE

VirtualBox (or your own VM environment)

Evaluation Scheme

100% activity based

No tests

Many reasonable sized assignments

Basic Structure

Application Containers (Docker)

HA Clusters

Application Deployment and Management

Course Philosophy

Learn the tools

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

Let's build some cool stuff!