

WHAT IS A CONTAINER?

According to NIST (National Institute of Standards Technology)

Virtualization: the simulation of the software and/or hardware upon which other software runs. (800-125)

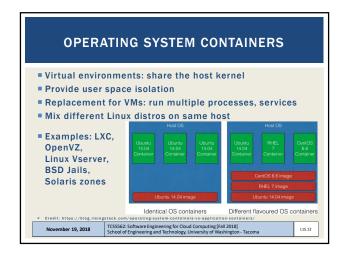
System Virtual Machine: A System Virtual Machine (VM) is a software implementation of a complete system platform that supports the execution of a complete operating system and corresponding applications in a cloud. (800-180 draft)

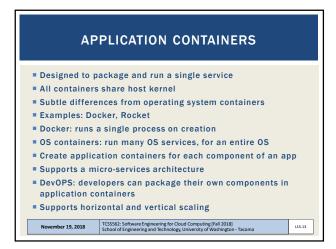
Operating System Virtualization (aka OS Container): Provide multiple virtualized OSes above a single shared kernel (800-190). E.g., Solaris Zone, FreeBSD Jails, LXC

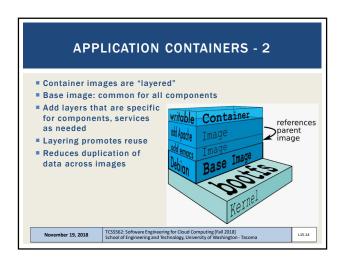
Application Virtualization (aka Application Containers): Same shared kernel is exposed to multiple discrete instances (800-180 draft). E.g., Docker (containerd), rkt

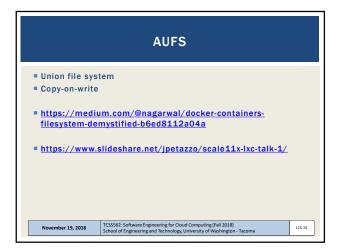
November 19, 2018

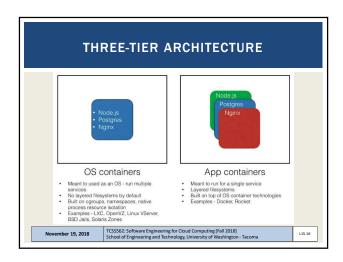
School of Engineering and Technology, University of Washington-Taxoma

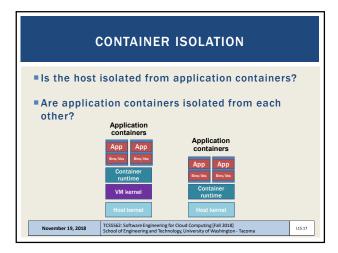


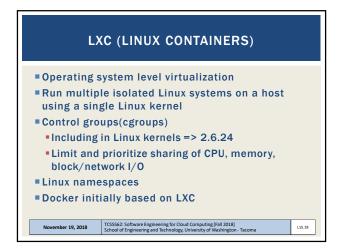


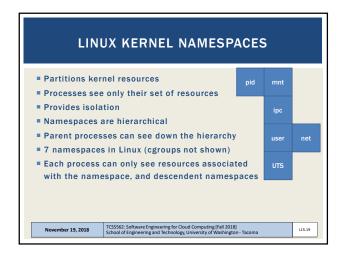


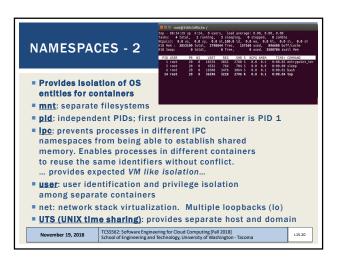


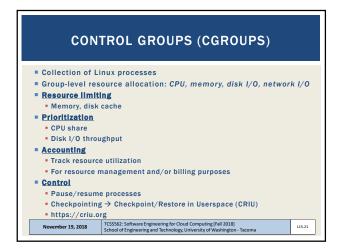


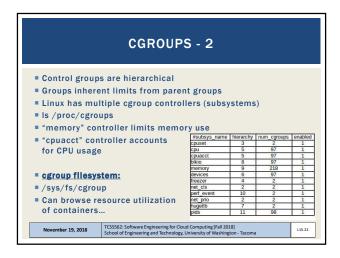


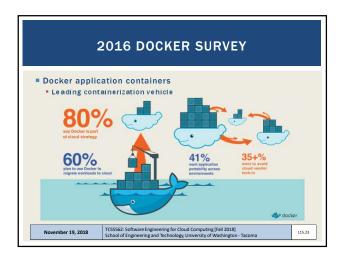


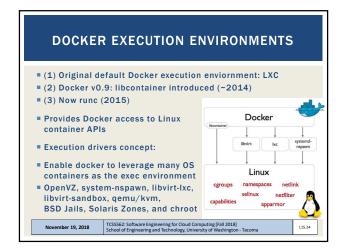


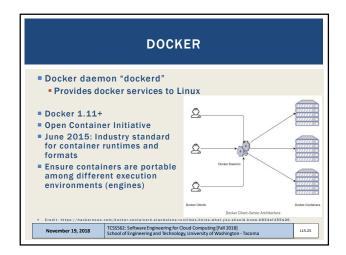


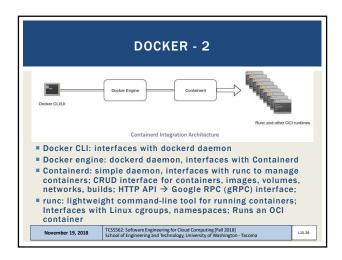


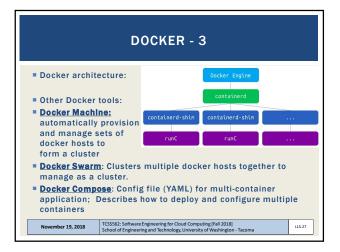


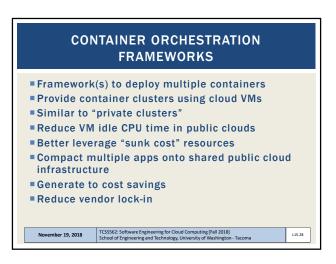


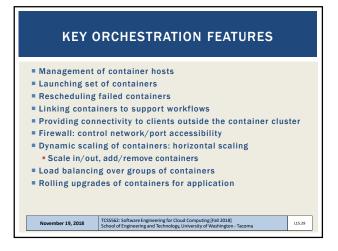


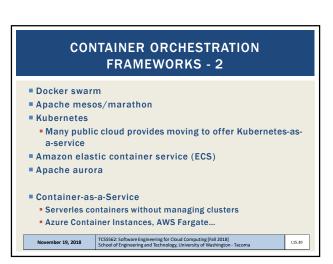


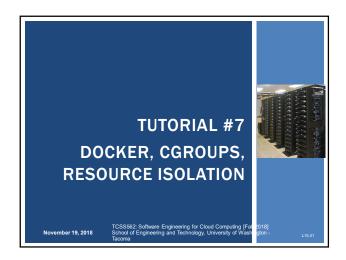


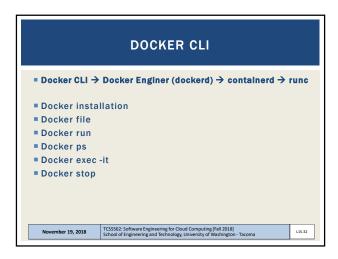












Attach local standard input, output, and error streams to a running container build build an image from a Dockerfle create a new image from a container's changes copy flex/folders between a container and the local flexystem deploy deploy and events are container and the local flexystem cerver sevents for the server sevents are container and the local flexystem cerver sevents for the server of the server sevents are container and the local flexystem cerver sevents for the server sevents for the se

