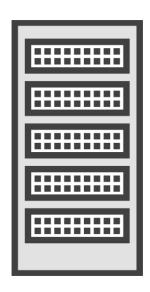
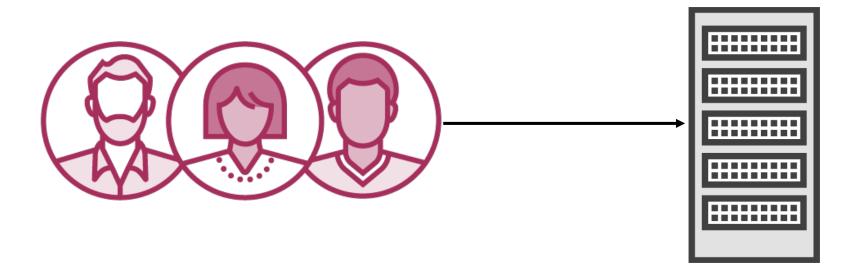
Working with the Linux Server

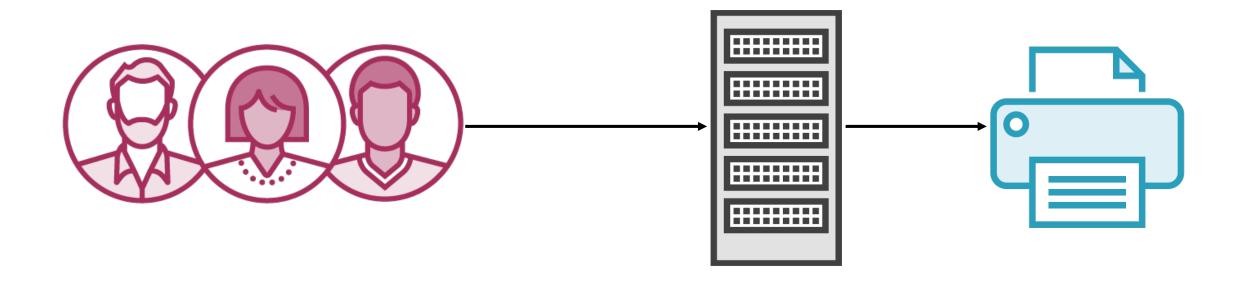


David ClintonLINUX SYSTEM ADMINISTRATOR

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Server applications

Apache



- Apache
- Nextcloud



- Apache
- Nextcloud
- Yum



- Apache
- Nextcloud
- Yum
- Snaps



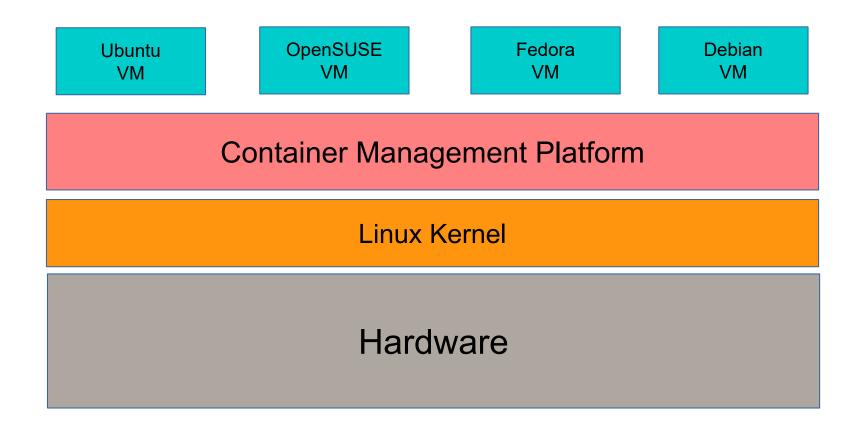
Server applications

- Apache
- Nextcloud
- Yum
- Snaps

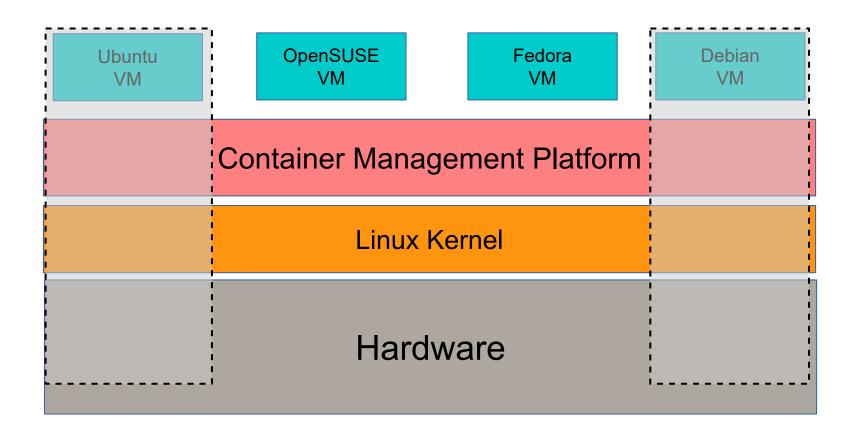
LXC (Linux Containers)

Using Linux Containers

Linux Server Virtualization



Linux Server Virtualization



Installing and Working with Server Apps: Apache

Installing and Working with Server Apps: Nextcloud

Regulatory requirements

Regulatory requirements

Third-party lock-in

Regulatory requirements

Third-party lock-in

Lack of control

Install a LAMP server

Manual Nextcloud Installation

Install a LAMP server

Configure service connectivity

Install a LAMP server

Configure service connectivity

Download Nextcloud archive

Install a LAMP server

Configure service connectivity

Download Nextcloud archive

Set permissions

Install a LAMP server

Configure service connectivity

Download Nextcloud archive

Set permissions

Troubleshoot

Compiling Code in Linux

When Compiling Makes Sense

When Compiling Makes Sense

New code

When Compiling Makes Sense New code

Customizing existing code

When Compiling Makes Sense

New code

Customizing existing code

Customizing the Linux kernel

No automated security patches

No automated security patches

Dependencies broken by system updates

No automated security patches

Dependencies broken by system updates

Unreliable source code repos

```
# sudo apt install autoconf g++ subversion linux-source \
linux-headers-`uname -r` build-essential tofrodos \
    git-core subversion dos2unix make gcc automake cmake \
checkinstall git-core dpkg-dev fakeroot pbuilder \
    dh-make debhelper devscripts patchutils quilt \
    git-buildpackage pristine-tar git yasm checkinstall \
    cvs mercurial
```

Packages needed to compile binaries

```
# sudo apt install autoconf g++ subversion linux-source \
linux-headers-`uname -r` build-essential tofrodos \
    git-core subversion dos2unix make gcc automake cmake \
checkinstall git-core dpkg-dev fakeroot pbuilder \
    dh-make debhelper devscripts patchutils quilt \
    git-buildpackage pristine-tar git yasm checkinstall \
    cvs mercurial
```

Packages needed to compile binaries https://bootstrap-it.com/linux-start

Review



Linux package managers

- APT Debian/Ubuntu
- YUM Red Hat/CentOS
- \$ sudo nano /etc/apt/sources.list
- \$ Is /etc/apt/sources.d
- \$ sudo apt update
- \$ apt search glabels
- \$ apt show glabels
- \$ sudo apt install glabels

Productivity and server software

Linux desktops

Course Review