**EDUCATIONAL TECHNOLOGY SERVICES** 



Moving Education Forward With Technology

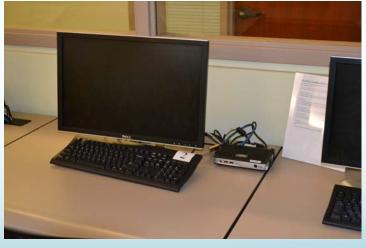
# Virtualized Desktop Infrastructure (VDI)

De Anza Pilot Initiative Spring 2015

## Agenda

- Background on VDI at De Anza
- Demonstration
- Tour
  - SSRS
  - ATC Server room
  - Science Center





## Caveats for VDI

Limited to software that runs on the Windows operating system

-Most software in use for instruction runs on Windows

Requires a network connection



## Benefits of VDI?

- Leverage remaining Measure C desktop refresh funds
  - -Increased computer fleet by 2,000 units since 2005
- Support BYOD
- Anytime, anywhere access for college applications
- Make changes for labs in less time
  - -Faster response for software change requests
  - -Part-time faculty requests a few days before the start of the quarter or when another section added
  - -With a few clicks of the mouse by ETS staff, increase memory or CPU for the virtual PC

## **VDI** Benefits

- •Improved end point security management
- Increased efficiency of human resources
- -ETS and Instructional Lab support staff
- Access to virtual instructional desktops on campus from Apple and Windows computers
  - Via free Client software
  - BYOD
  - Tablets (iPad/Android)
  - Smartphones
- Future expansion of VDI
  - Based on registered classes, choose between the desktop pools for their specific class
  - Access from off campus

### The Current Investment

#### Hardware

- -Servers
- -Storage (several Terabytes of disk space)
- -Zero and Thin client end points
- -Network switches

#### Software

- -VMware and Unidesk
- -Antivirus/malware
- -Load Balancing (fault tolerance/login storms)
- -Extend the life of existing computers
- -Replace old computers with zero clients
- -Professional Growth opportunity for ETS staff



### Next Investment

- Fail-over and system back-up
- Expand use of Active Directory identity management
  - Support for off campus access to VDI
  - Access to course work software and resources (i.e. AutoCAD)
  - Helps with software license management
  - BYOD
- Expand VDI system disk storage capacity
- More Unidesk software licenses (desktop provisioning software)
- More servers
- Graphic cards to support high-end graphic software (AutoCAD, InDesign, Photoshop, CNC machining software)
- Buy thin and zero client hardware instead of desktop computers
- Buy Chromebook-like devices instead of laptops

## What is already in service?

#### Current deployments:

- Science Resource Center
- Student Success & Retention Services
- Veterans Resource Center
- Financial Aid
- EOPS
- A&R Lobby using only thin client technology

#### Future deployments:

- Language Arts
- Learning Center
- MCC





### Demonstration

- Zero client device
- Amount of time to change or add software for an instructional lab
- •Student registered for classes each requiring use of specialized software
- Access software from any device on campus
  - College owned computer or BYOD

# Questions?

Now the Tour



