

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

