

IT User Experience Governance Committee

Desktop Virtualization ('VDI') – Current and Future State

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Agenda:

- What is VDI? What are the benefits of VDI?
- Current state of VDI at Sheridan
- The future of VDI at Sheridan

IT USER EXPERIENCE - VDI

What is VDI?

- VDI = Virtual Desktop Infrastructure, aka Desktop Virtualization
- Separation of desktop Operating System (Windows or Linux) from client hardware
- The desktop OS runs in a datacenter rather than on the client's device
- OS is now accessible from a variety of devices inside or outside the College
 - Windows and Mac OS X
 - iPad / iPhone / Android
 - Hardware clients (e.g. Zero Clients)



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Benefits of VDI

Mobility

Users can work from any device, anywhere, at any time

Security

Information is consolidated in data centers, and does not roam around with the users devices

Management

Deploy a common and consistent desktop experience to all users, and update those desktops quickly and centrally

Efficiency

No more imaging and hardware support of physical desktops

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Current VDI use cases

Mobile Computing

- Support the use of some software by providing a common and standardized computing environment

Distance Education

- Provide remote access to a standard computing environment, provide software that would otherwise be difficult for students to license or install

Academic Computing

- Replacement of lab and Learning Commons PCs w/ Zero Clients / VDI

Administrative Computing

- Replacement of staff desktop PCs w/ Zero Clients / VDI
- Support highly mobile workers

Demonstration

- From Mac OS X
- From iPad

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Infrastructure Capacity

The overall capacity of the infrastructure is nearly fully utilized:

- Information Technology released an RFP in September, 2015 to select hardware for an expansion of the infrastructure
- The RFP results were evaluated but further progress is currently on hold due to budget constraints
- The already existing infrastructure is coming off of lease at the end of 2016 and will also need to be replaced

Next Steps:

1. Document any continued need for VDI in areas around the College
2. Complete Total Cost of Ownership comparison of virtual vs. physical desktops based on updated costs and infrastructure to allow for comparison
3. Identify investment opportunities to fund expansion (fees, physical desktop lease streams, cost transfers, etc.)

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New Features and Capabilities

In 2016, Information Technology is planning to upgrade the application (VMware Horizon View) to the latest version (v7):

- Support for new desktop Operating Systems (notably Windows 10 and Linux)
- HTML5 access (no longer require dedicated application on some platforms)
- App Volumes (separation of applications and operating system, allowing greater flexibility and portability of the environment)
- Increased simplicity and manageability of the environment
- Smarter access controls (who user is, where they are connecting from, what device they are using) on a per-pool basis

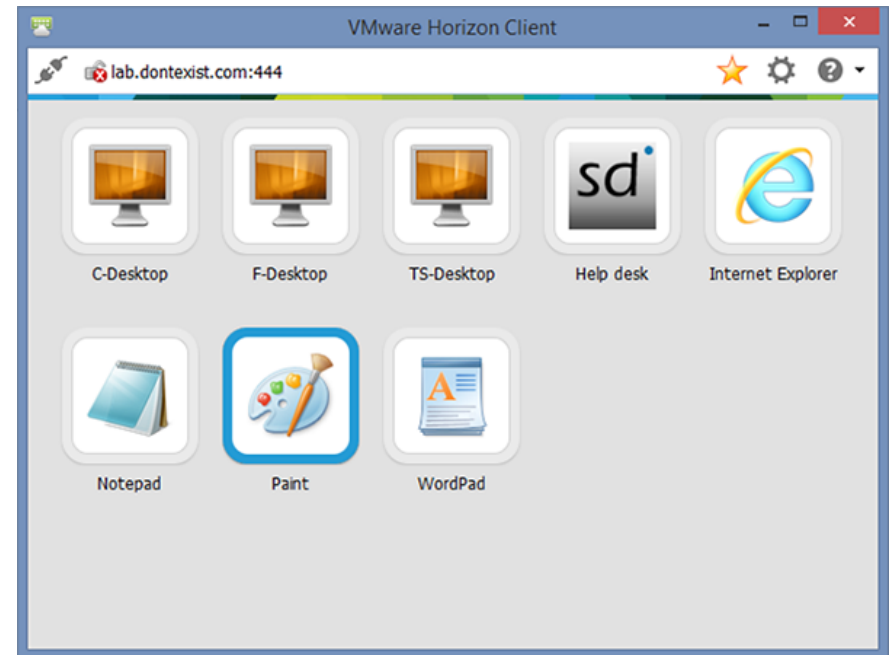
Note: Some of these features (incl. ones that follow) would require a license upgrade



DESKTOP VIRTUALIZATION

Application Pools

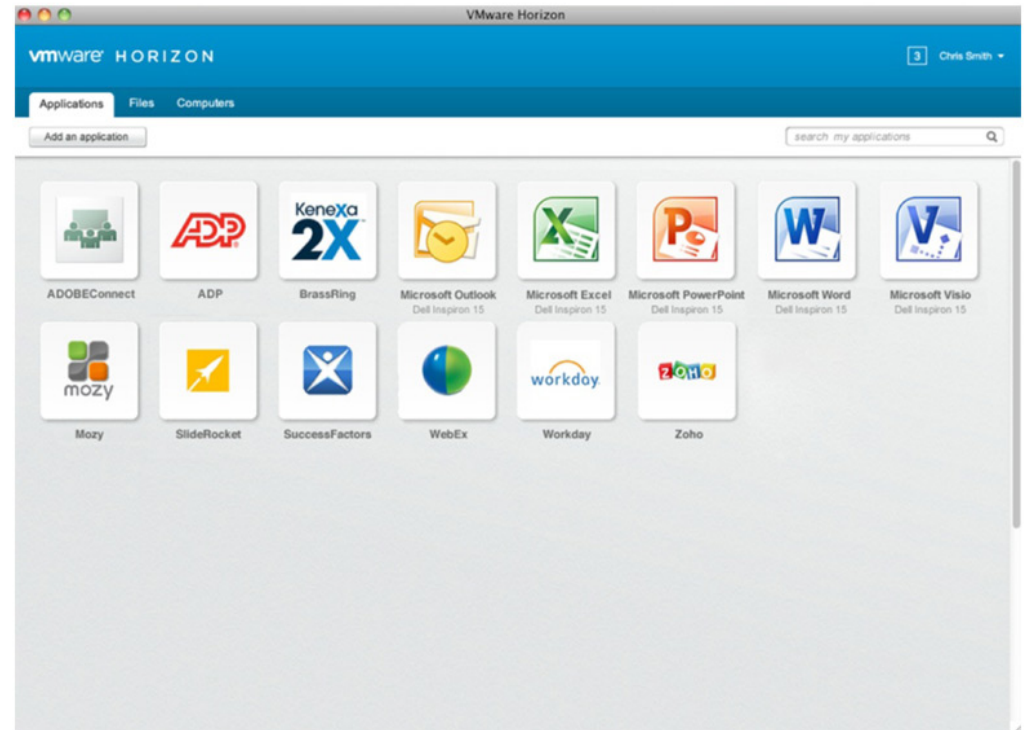
- Can provide access to an application without the need to provision an entire virtual desktop to the user.
- Most useful for Mobile Computing and Distance Education programs.
- Would reduce infrastructure requirements and TCO overall.



DESKTOP VIRTUALIZATION

Workspace

- A Sheridan 'app store'
- Access to Virtual Desktops, Remote Applications, ThinApps, packaged applications, and internal/external SaaS apps w/ Single Sign-On.



Q&A