

Introduction to the Virtual Desktop Pilot at Fermilab

Who are the Major Players?

- VMWare View
- Citrix XenDesktop
- Windows Desktop Virtualization



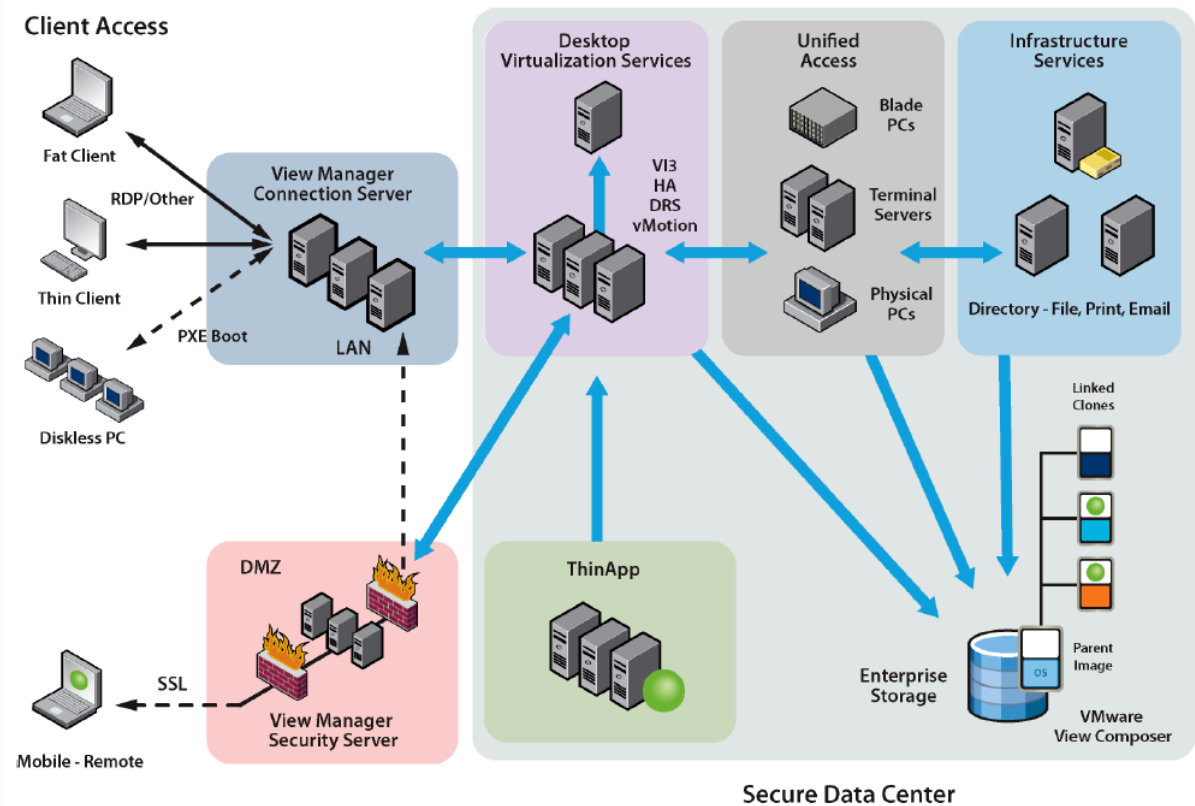
Why did we choose VMWare View for the Pilot?

- VMWare is a market leader in Virtualization, providing commercial support and services for their virtual desktop software.
- It is a complete package from a single vendor
- View can integrate with our existing Virtualization infrastructure.
- We are currently staffed by VMWare certified professionals, reducing the need for additional training or consulting services.
- We inherited VMWare View licenses from TD.

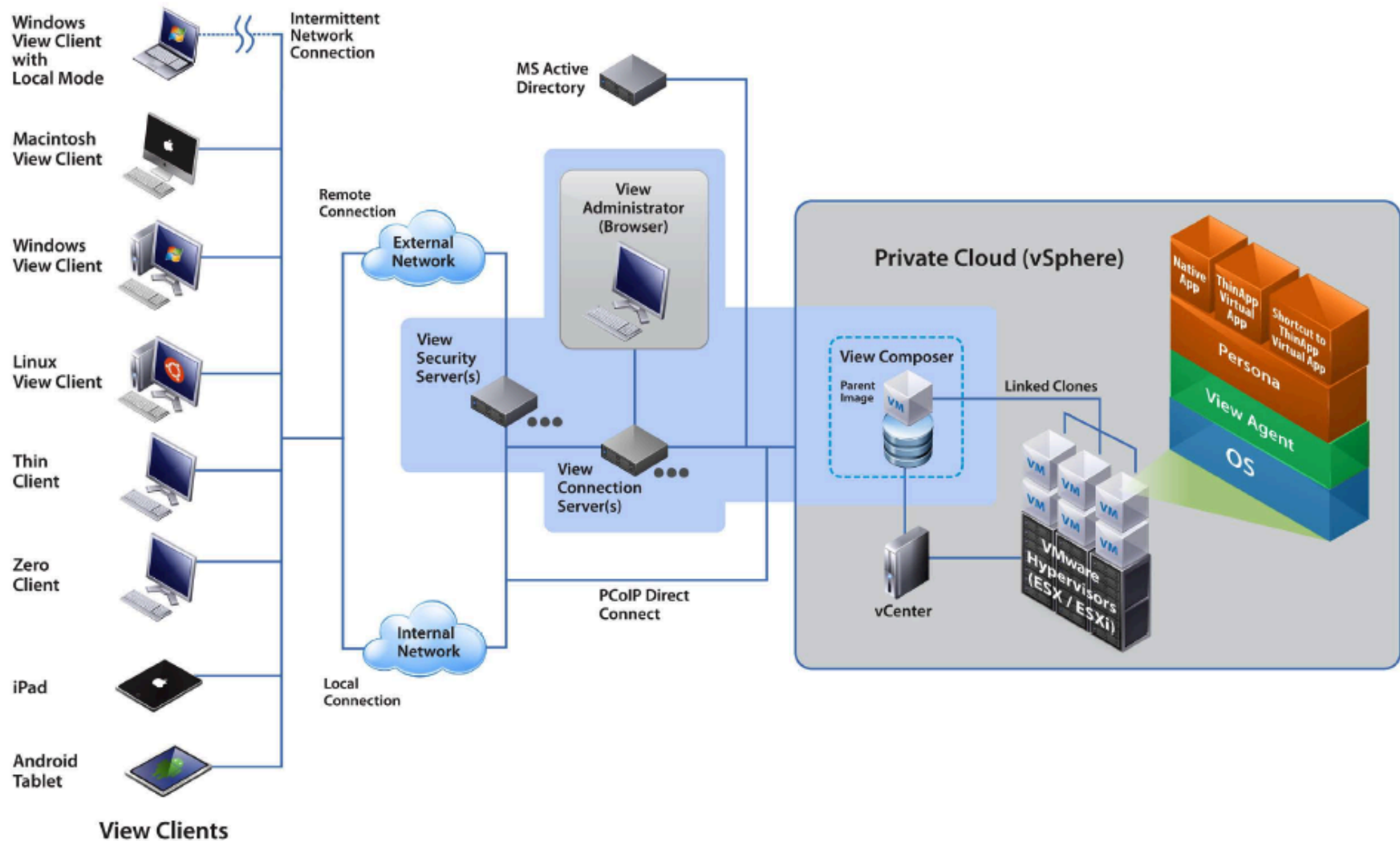
Key Components of VDI

VDI is more than just a Windows desktop OS in a VM!

- Virtualization Platform
- Connection Protocol
- Management Platform
- Connection Broker
- Application Virtualization
- User Profile Management
- Client Devices



VMWare View Architecture



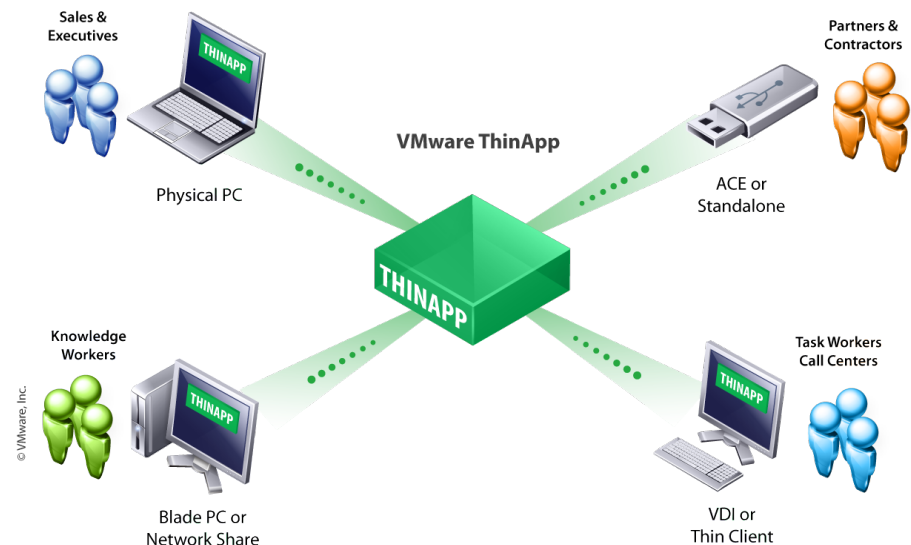
What Devices Does View Support?

- Windows Desktops
- Mac OS X
- Ubuntu Linux
- iPad
- Android Tablet
- PCOIP Zero clients
- Thin clients by HP, Wyse, Dell, IOZig, etc..



VMWare ThinApp

- Application files and registry are encapsulated into a single package that can be run locally, or from a network share.
- Thinapp packages can be deployed, managed and updated independently from the OS.
- Virtualized applications are not “installed”, and thus make no change to the OS.



Benefits of VDI

- **Centralized Management**
Pools of VM's can be deployed, entitled and administered from a central location. Virtual Desktops can be enabled for self-provisioning and user-initiated OS refresh.
- **Better Scalability - Increase or decrease VM's as needed.**
New VM's can be provisioned 'on the fly'. VM's are suspended when not in use, saving host resources.
- **Security**
Data is located in the secure datacenter rather than on the user's desk.
- **Disaster Recovery**
Provision a replacement VM in just a few mouse clicks.
- **BYOD & Remote Office Computing**
Users can access the same Virtual Desktop whether they are on site, at home, or traveling. VM's can even be used "offline" with VMWare's "Offline Desktop" feature.
- **Better Service Delivery Model**
No more worrying about physical desktop hardware being compatible with the latest Windows OS.
- **Fits with DOE Virtualization/Green objectives**

Some Initial Use Cases

- Summer Students (BYOD)
- Email Kiosk
- Training
- “Loaner” while primary PC is diagnosed.
- “Hot-desk” or multi-workstation users.
- Application testing.