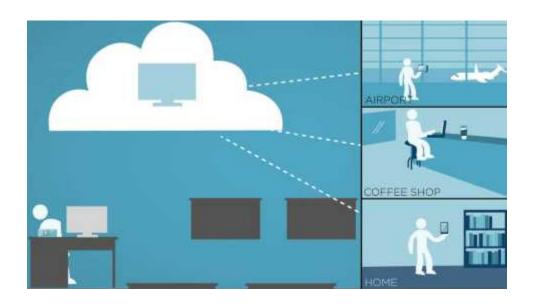
Securing Healthcare Information with Virtual Desktops

Aivars Apsite
Technology Strategist
Metro Health

- What do we use at Metro Health
- How do we secure it at Metro Health
- What are the benefits to Metro Health
- Plan the Next Steps

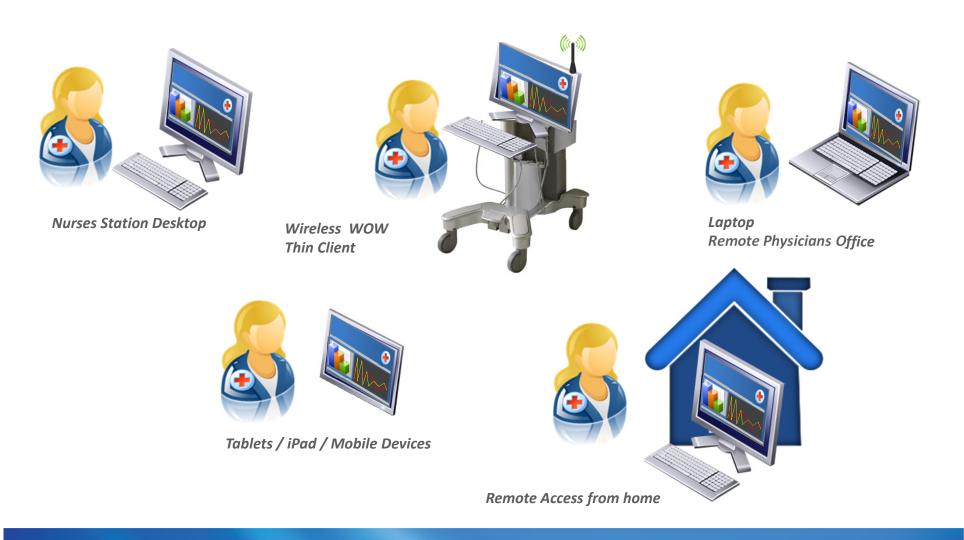




VDI overview

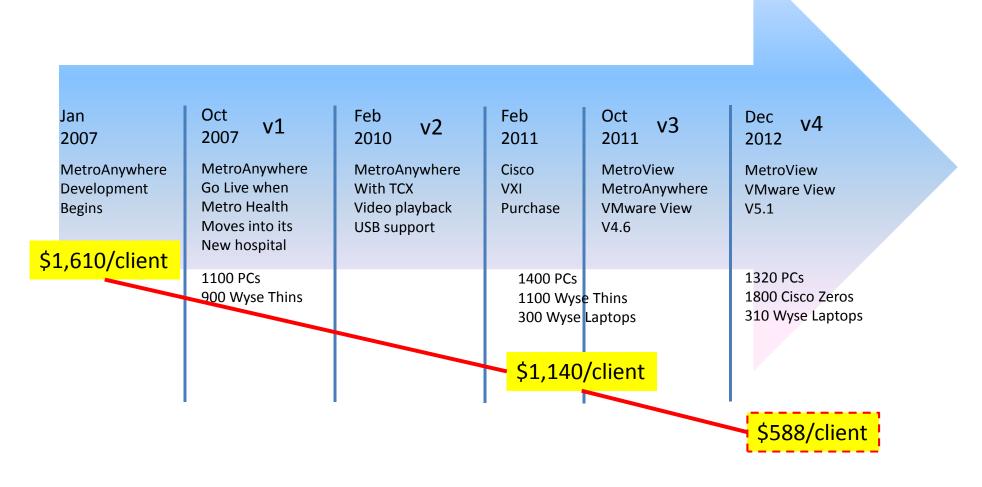


Access your desktop from any device



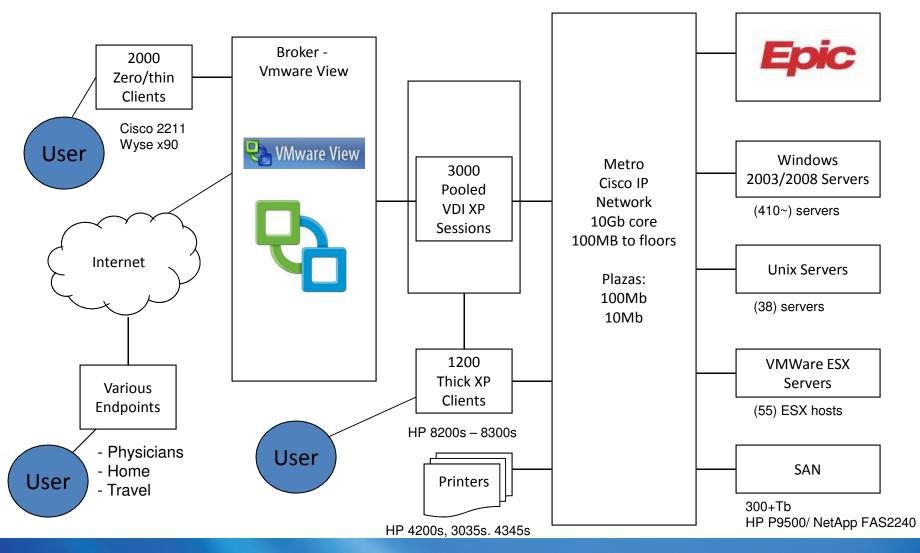


Desktop Virtualization Timeline



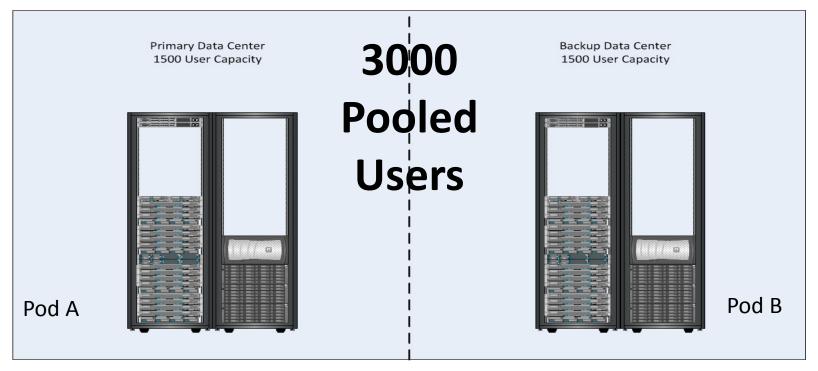


Metro Health Topology





VDI "in a box"



- (32) Cisco B250 M2 Servers
 - Dual Intel X5680 Processors (3.3Ghz, 6 cores)
 - 192GB RAM
- (4) Cisco B200 Management Servers
 (Dual X5670s, 24GB RAM)

- (2) Netapp FAS3240 Storage System (64TB raw/50 TB useable)
- (4) Nexus 5010 Switches with (4) 10Gb uplink connections to core network.









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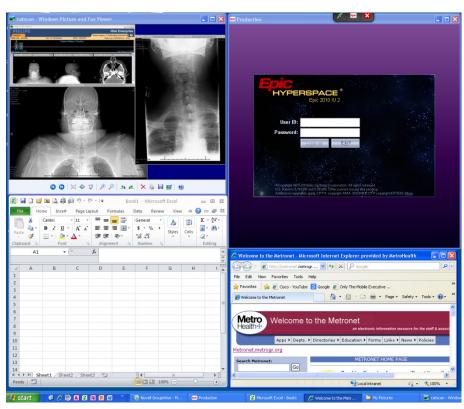


Secure Roaming with Fast Reconnects

- Reconnect to active desktop in 10 seconds or less
- To a FULL Windows desktop
- Access to ALL opened applications simultaneously

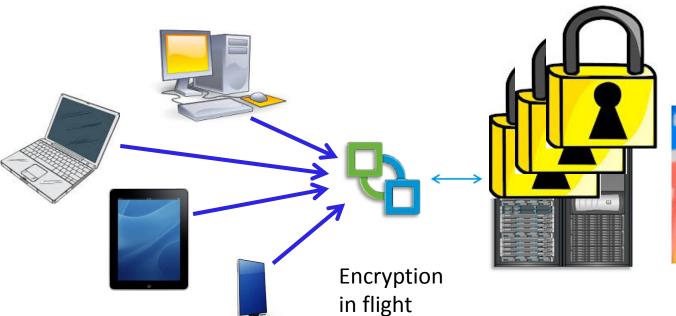
The full Windows OS is running

- Security patches applied
- Antivirus is up to date
- OS is locked down to users
- All centrally managed
- Timeout scripts enabled
- At logoff, all sessions recloned
- Meets compliance standards
 - Quick reconnects





All PHI* in our Data Centers





Encryption at rest is possible

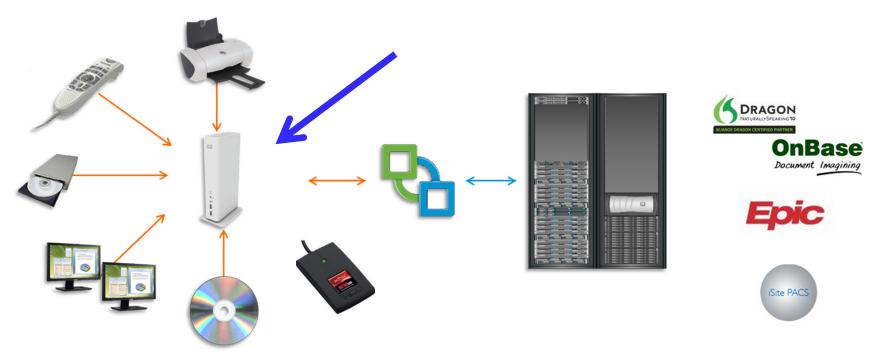
NOTICE – the PHI* data is not stored on the local desktop

Levels of security
AD login
AD permissions
Application

* Patient Health Information

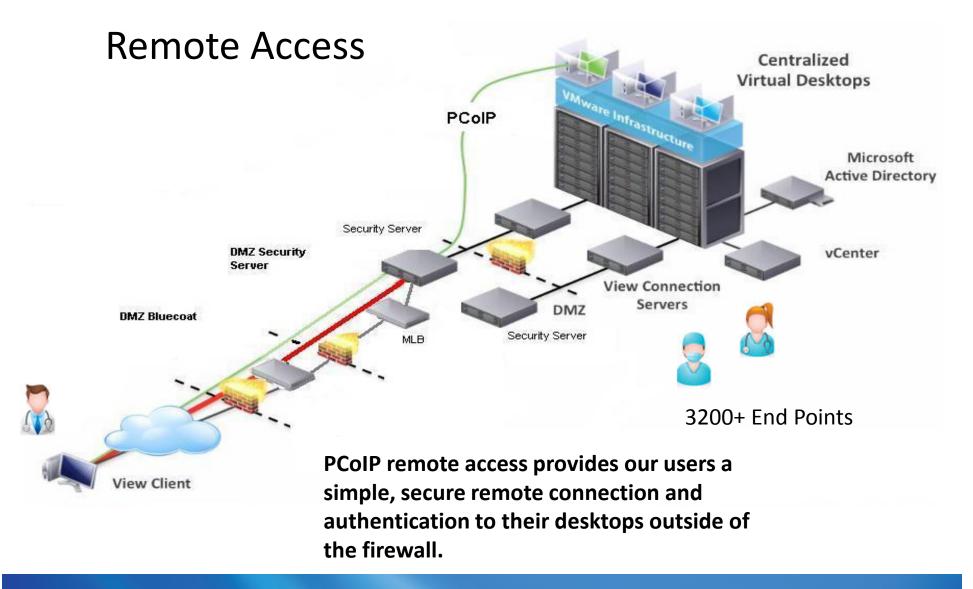


Zero Clients and Imprivata Single Sign On



- Only one image to manage –View session
- Zero client "imaging" process takes less than 5 minutes
- No driver management on Cisco VXCs
- Enhanced USB support in View 5.1
- 60+ applications converted to SSO







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Lessons Learned

Not enough Imprivata user licenses – some users could not log in



Zero clients do not come with a connection bar. Limited functionality Added RocketDock to provide some functionality

No SSPW option from zero clients. Set up a generic user with access to SSPW page.

Big Concern – if we loose our connection servers, no brokering to View sessions Possibly looking at developing a Teradici RDSH solution for DR purposes



Next Steps

- An alternative broker for zero clients
- Imprivata Epic connector to Exam Rooms
- Imprivata "walk away" locking
- SSPW native access from Zero Client





Questions?



