Empowering Radiologists with Nvidia GRID
Hans Kraaijeveld

- Senior Project Engineer – EUC Consultant @ Client ICT Groep Solutions (Veldhoven, The Netherlands)

- Certified Novell Engineer 5.1
- Microsoft Windows IT Professional – Enterprise Administrator
- VMware VCP5,6 DCV, VCP5,6 DTM
- VMware vExpert
- Citrix CCP-V

www.plonius.com
@hanskraaijeveld
hkraaijeveld@client.nl
• Radiologist workspace requirements

• Proof of Concept: VDI...?

• Nvidia GRID (and VMware) to the rescue

• The many benefits of the solution

• Q&A
Radiology

• Dictionary: The interpretation of medical x-ray photographs
The radiologists workplace

- High end dedicated workstation
  - Fast cpu
  - Loads of ram
  - Fast storage
  - GPU
- Speechmike (speech-to-text)
- 2x Medical grade displays (3MP)
- 2x 24” full HD (1080p) displays
- Assorted peripherals
The radiologists workplace

- High uptime requirement
- Strict validation and testing requirements
- Old school setup
- Time consuming software installation/test/upgrade
- Non-scalable architecture
- Physical limitations
Proof of Concept

- Can we use VDI to replace the physical desktop?

- Server hardware (Physical datacenter hardware)
- VMware vSphere (Hypervisor)
- Nvidia GRID (Server based shareable GPU’s)
- VMware Horizon View (Virtual Desktop Infrastructure software stack)
- Management software (User Environment Manager)
Virtual Desktop Infrastructure

Your desktop is here somewhere
Proof of Concept

• Building
• Testing
• Validating
• Monitoring
• Conclusion
The benefits

• Managing thin clients, not pc’s.
The benefits

- Centralized manageability, easy scalability and testing capabilities

![Diagram showing central desktop image with desktop pools labeled: Test desktop pool (size 5), Acceptance desktop pool (size 20), Production desktop pool (size 99).]
The benefits

99.9% uptime!
The benefits

• The ability to work from home
The benefits

- Decrease in time loading files
  
  =

- Increase in production
Just one last thing...

The proof of concept was completed successfully in early 2015, can you imagine what’s possible now?
Questions?
Hans Kraaijeveld

Senior Project Engineer – EUC Consultant @ Client ICT Groep

Please submit your rating through the Nvidia GTC Europe App or the provided forms

www.plonius.com
@hanskraaijeveld
hkraaijeveld@client.nl