

Application and Desktop delivery Solutions Overview

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- Application and Desktop delivery solutions overview
- Pros and Cons of each Solution Delivery

Application and Desktop delivery solutions overview

App. and Desktop delivery Overview

“How can we successfully deliver applications to users?! “

Three essential Questions:

1. What is the application execution platform?
2. How are applications delivered on the execution platform?
3. How do we manage the desktop from device and user point of view?

App. and Desktop delivery Overview

- Q1: What is the application execution platform?
 - Local with DT, LT, CL-VDI, Mobile Device;
 - Central with SH-VDI, TS, Blade PC/WS;

- Q2: How are applications delivered on the execution platform?
 - Web-architected
 - Windows Installed
 - Windows Streamed
 - Windows Virtualized

- Q3: How do we manage the 'desktop' from device and user point of view?
 - PC-life cycle management, desktop management, Device (DT/LT/Mobile) Management;
 - User Environment Management, User Workspace Management;

App. and Desktop delivery Overview

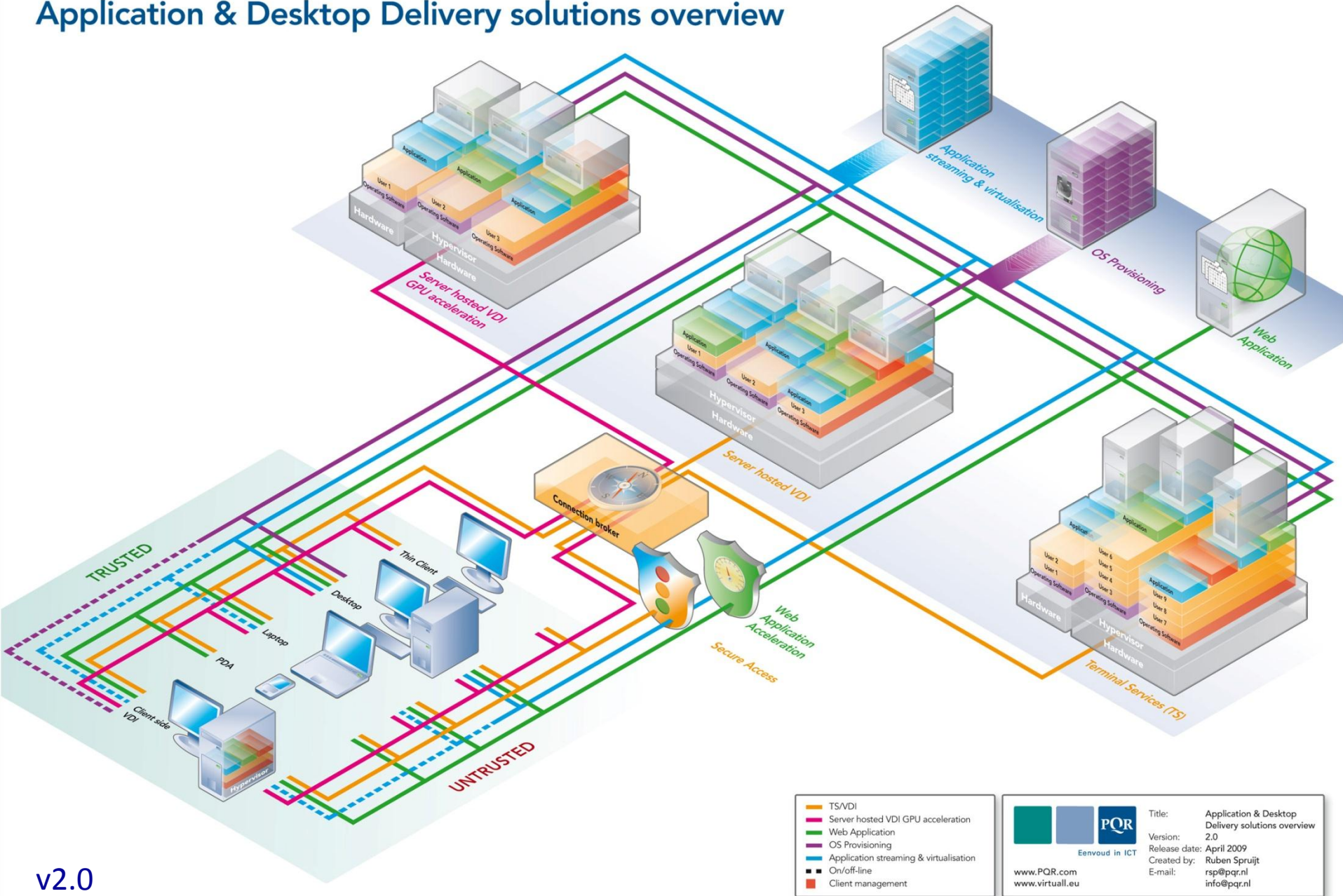
Application and Desktop delivery components:

- End-point device
- Client-side VDI, type #1 and Type #2
- Server-hosted VDI (SH-VDI)
- Server-hosted VDI GPU Acceleration (Blade/VM)
- Terminal Services

Application and Desktop delivery components:

- Remote Display Protocol
- Connection Broker
- Secure Access
- OS Provisioning / OS Streaming / Storage Virtualization
- Application Streaming and Virtualization
- Web application optimization and security
- Web architected applications
- Client Management (ESD)

Application & Desktop Delivery solutions overview



Pros and Cons of each Solution Delivery

- Traditional image mgmt with ESD
- Traditional image mgmt with app virt
- OS Provisioning/Streaming (with and without app virt)
- Hosted Desktops (Server hosted, Server hosted GPU Accelerated, Blade PCs)
- Terminal Services
- Type-1 / Type-2 Client Side Hypervisors

- Well established method of systems mgmt/most common
- Many vendors to pick a solution from
- Does not require a high skill level to troubleshoot
- Fairly low entry costs
- Many OSD/ESD tools also include systems mgmt / remote control software too.

- Windows Installer technology has made ESD much less risky
- ESD tools are mature for branch office deployments
- Supports online and offline use cases
- High definition user experience (graphics/peripherals)

- Not able to rapidly provision Software (may disrupt user work for distribution/removal)
- Additional solution required for WAN unfriendly apps
- Solutions poor/fair at mgmt freq. disconnected clients
- Does not help application conflicts

- 1:1 user/machine/software relationship
- No DR rapid recovery (major DR/BC implications)
- No/limited self service provisioning out of the box
- Enterprise deployment can be expensive (SW & HW)
- Client hardware requires regular H/W refresh

- Relatively low TCO / quick ROI
- Can leverage low cost client hardware (long refresh)
- Great for WAN unfriendly apps
- Can support conflicting apps by providing on separate servers
- Can provide instant app provisioning through separate servers
- Provides excellent DR/BC capabilities
- No 1:1 user/machine relationship (can hotel)

- No offline support / latency sensitive
- Enterprise deployment can be expensive
- Application compatibility / Vendor support
- Troubleshooting applications is more difficult
- Requires specific admin skill set
- Requires user environment management
- Limited high definition user experience
(Graphics, Peripheral support)

- Can be used for both servers and workstations (traditional and hosted)
- Provides easy rollback process for bad updates/apps
- Provides ability to share base OS/apps across many users (with caveats)
- Capable of rapid DR

- High definition user experience (graphics/peripherals)
- Eliminates 1:1 mapping of user/machine (can hotel)
- Can be leveraged for rapid capacity expansion (server)

- Can be very costly in HW/SW
- Endpoints may be PCs which req. expensive refresh
- Dependent on good network performance
- No offline use case (today)
- May require app virt solution to support desktop diversity
- May require hurdles to get certain apps to work properly in shared disk model (A/V, Sys Mgmt, etc)
- Performance overhead / possible increase

- Capable of rapid DR / Excellent BC support
- Eliminates 1:1 mapping of user/machine (can hotel)
- Can leverage low cost client hardware (long refresh)
- Higher level of app compatibility
- Desktop mgmt using same tools as you always have. + “Need to understand TS challenges”
- No special level of admin skills req (for desktop supp)
- Can support WAN unfriendly apps

- Can be very costly in HW/SW
- Latency sensitive
- Generally no offline use case (but some are trying)
- Possible performance issues (which are challenging to troubleshoot)
- High definition experience (graphics /peripherals) can be challenging (even with GPU accel)

- DR/BC support varies, but generally good/high
- User can be allowed to self-install apps (can repair)
- Enterprise Management (policy engine, remote poison pill, user data backup, disk encryption)
- Supports frequently disconnected clients

- Layered windows model (separation of corp image, from user installed apps, from user data)
- High level of app compatibility (same as reg desktop)
- Supports BYOPC model (some type-2 multiplatform)
- Works offline

- Doesn't help with WAN unfriendly apps, need additional solution for this
- Doesn't support low end client hardware
- Type-1 can be very hardware specific / BYOC
- Despite advertising high definition experience, graphics and peripheral support is challenging

- Layered windows model can introduce security flaws; (legal/compliance)
- Delivery of solution/updates (via web/removable media) has potential performance delays
- If DR solutions depends on it, are users carrying their environment?

- Random Thoughts..?!

The Bottom Line

- Probably isn't a single solution that solves all of your needs. Consider mixing two or more.
- If you're not thinking about DR/BC/pandemic implications, you should be. Everyone prepares server DR, many forget the desktop environment.
- Applications are getting richer UI, keep this in mind when choosing a solution. Latency won't be going away.
- Application and Desktop delivery can be complex... but is FUN!
- The desktop is dead. Long live the desktop!

Thanks you for attending!

Feedback? please let us know!

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