

3 Virtual Desktop & Remote Desktop

vmware®

Horizon View



Microsoft

Remote Desktop Services

vmware®

Horizon View



PRIMARY DRIVERS FOR HOSTED VIRTUAL DESKTOP ADOPTION

Desktop infrastructure simplification CapEx reduction

- Device simplification and/or consolidation
- Speed new deployments, new apps, new employee provisioning

OpEx Reduction

- Simplified desk-side support
- Simplified lifecycle management
- Improve productivity

Ease and speed of OS/app deployments

- Windows 7 migration

Security

- Control assets outside corporate perimeter ("off-shoring")
- Device, data security and control

New Initiatives

- BYOD

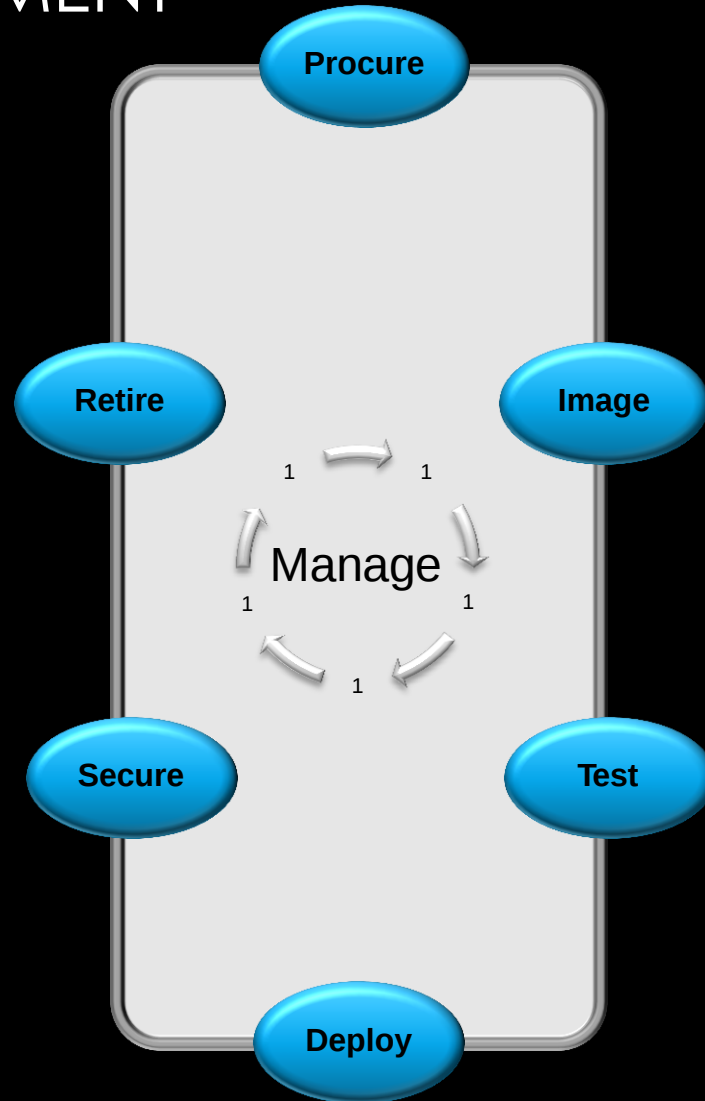
The TCO Equation



The diagram illustrates the Total Cost of Ownership (TCO) equation. It features three blue circles on a black background. The first circle on the left contains the text "CAPEX". To its right is a blue plus sign. The second circle contains the text "OPEX". To its right is a blue equals sign. The third circle on the right contains the text "TCO".

$$\text{CAPEX} + \text{OPEX} = \text{TCO}$$

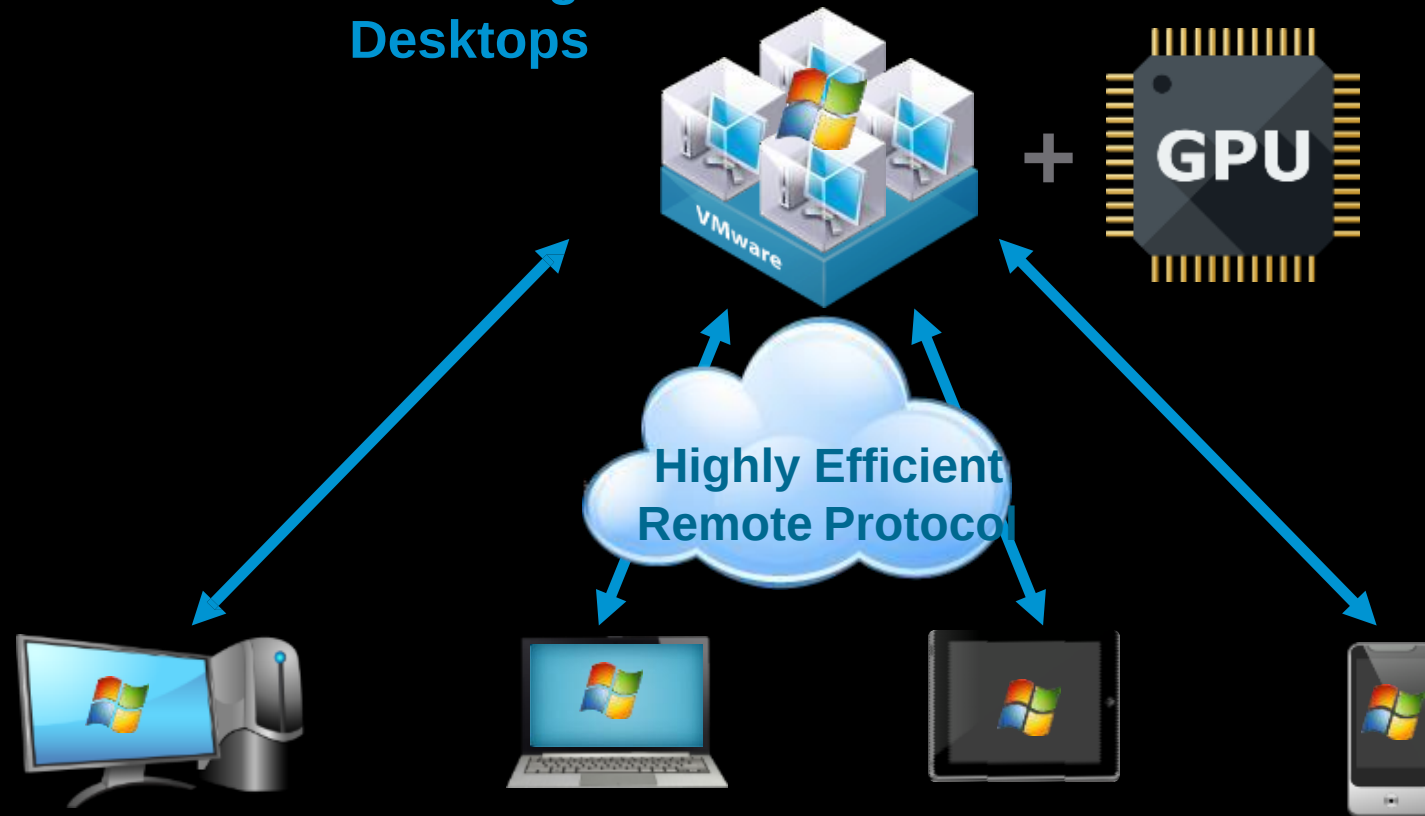
OPERATIONAL EXPENSES - ENTERPRISE DESKTOP & APPLICATION MANAGEMENT



- Hardware/SW configuration
- User administration (Move/Add/Change)
- Desktop imaging/reimaging
- Patching, upgrading OS/applications
- Application testing & provisioning
- Packaging and deploying applications
- Access/data security management
- Help desk support

DESKTOP AND APP VIRTUALIZATION ENABLES BUSINESS MOBILITY

IT Manages Centralized Virtual
Desktops



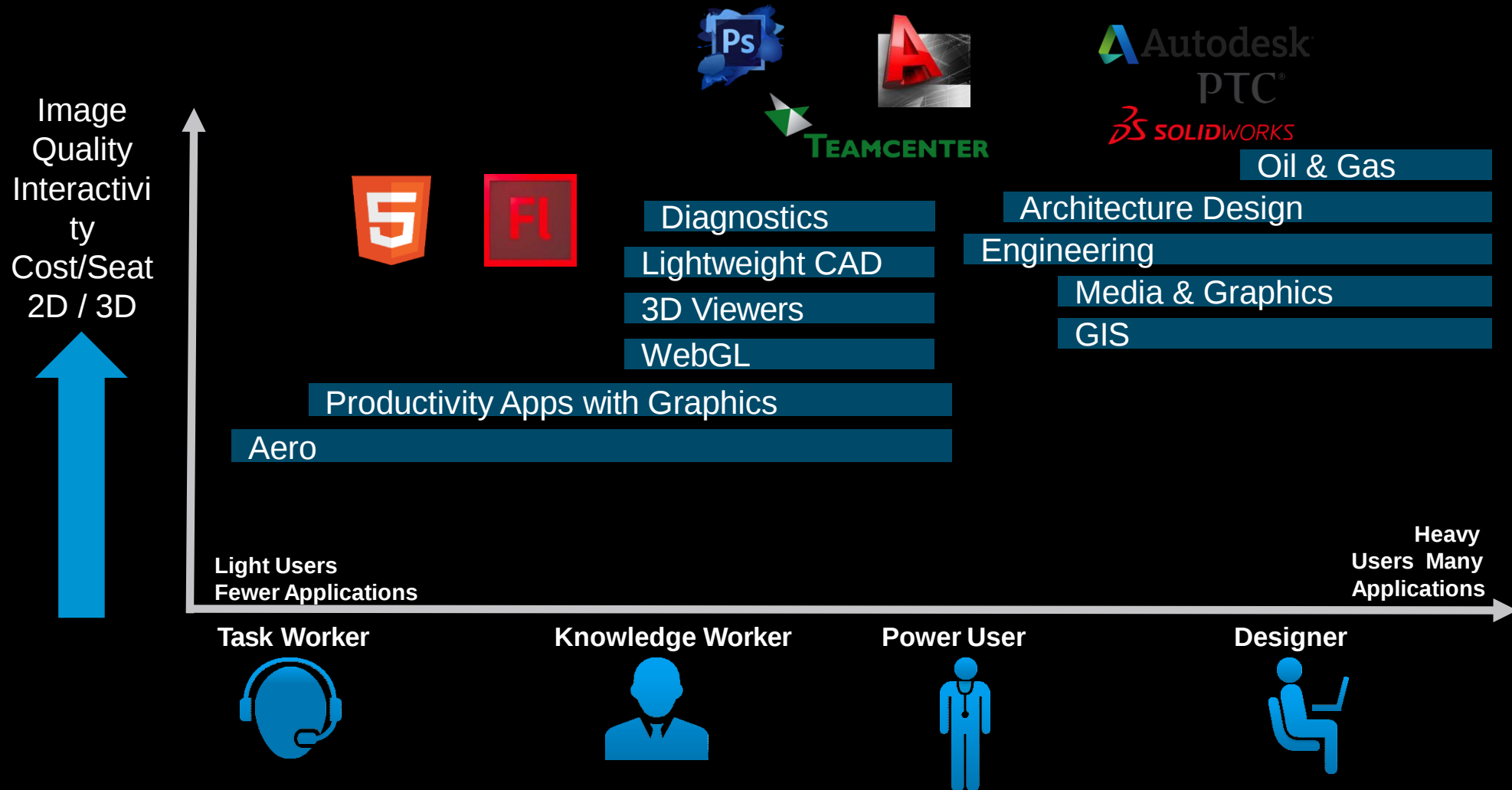
Users Remotely Access from Various
Devices



Desktop
Virtualization
with Server-
side GPU
Improves the
Delivery of
Graphics



HIGH-PERFORMANCE GRAPHICS USE CASES



WHY CHOOSE VMWARE FOR HIGH-PERFORMANCE GRAPHICS VDI?

- Proven, industry leading platform, fully integrated end-to-end solution
- Deliver the most graphically intensive applications
- Deliver a superior experience with PCoIP
- Choice of GPU technologies
 - vGPU, vDGA and others



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HIGH PERFORMANCE SHARED GRAPHICS WITH NVIDIA GRID

VGPU

Overview

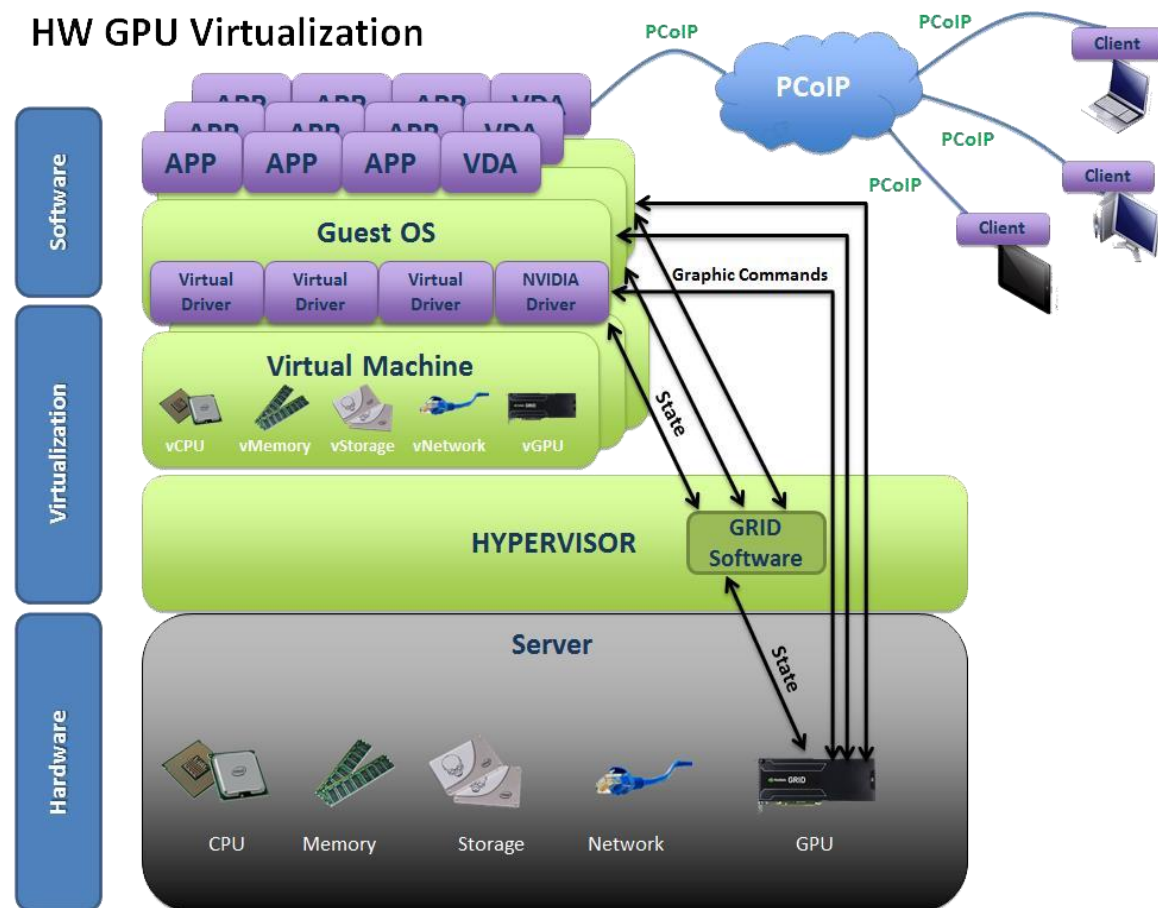
- Enables shared access to physical GPUs on NVIDIA GRID GPU hardware for High-performance Graphics and high performance compute workloads
- Uses native NVIDIA drivers in Windows
- NVIDIA VIB installed on ESX to manage GPU
- ISV certifications available from Siemens & ESRI with more to come

Benefits

- Enables truly high performance graphics
- Cost effective with multiple VMs sharing single GPU resource
- Flexibility in delivering High-performance Graphics graphics for desktop and workstation use cases
- Supports automated pool management with VMware Horizon
- Enhanced multimedia experience for Knowledge Workers

Support Multiple Graphics Workstations & Applications with NVIDIA GRID

HW GPU Virtualization



VDGA – HIGH PERFORMANCE DEDICATED GRAPHICS WITH NVIDIA GPUS

Overview

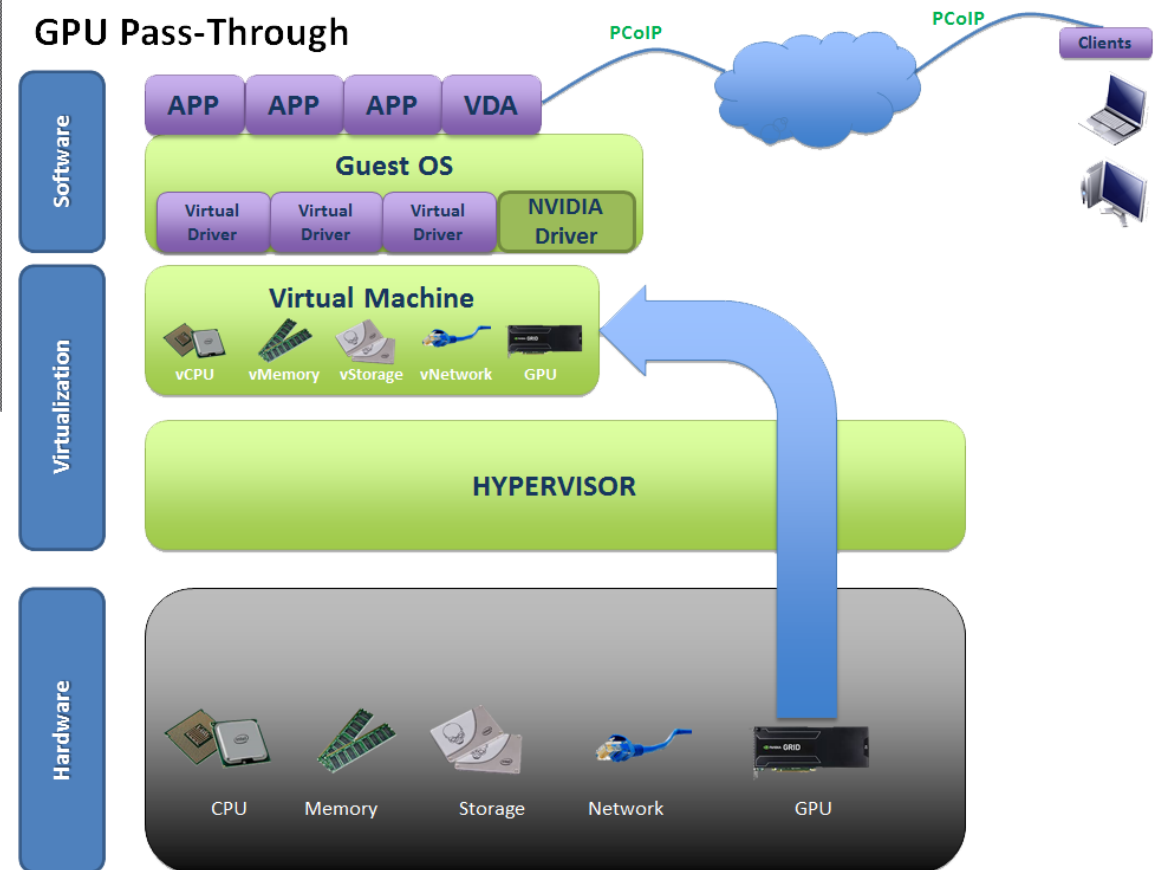
- Enables dedicated access to physical GPUs on NVIDIA GRID GPU hardware for rich graphics and high performance compute workloads
- Ideal for oil & gas, high performance computing
- Uses native NVIDIA drivers in Windows
- ISV certifications available from Siemens & ESRI with more to come

Benefits

- Enables truly high performance graphics
- Complete application compatibility/certification
- Flexibility in delivering rich graphics for desktop and workstation use cases

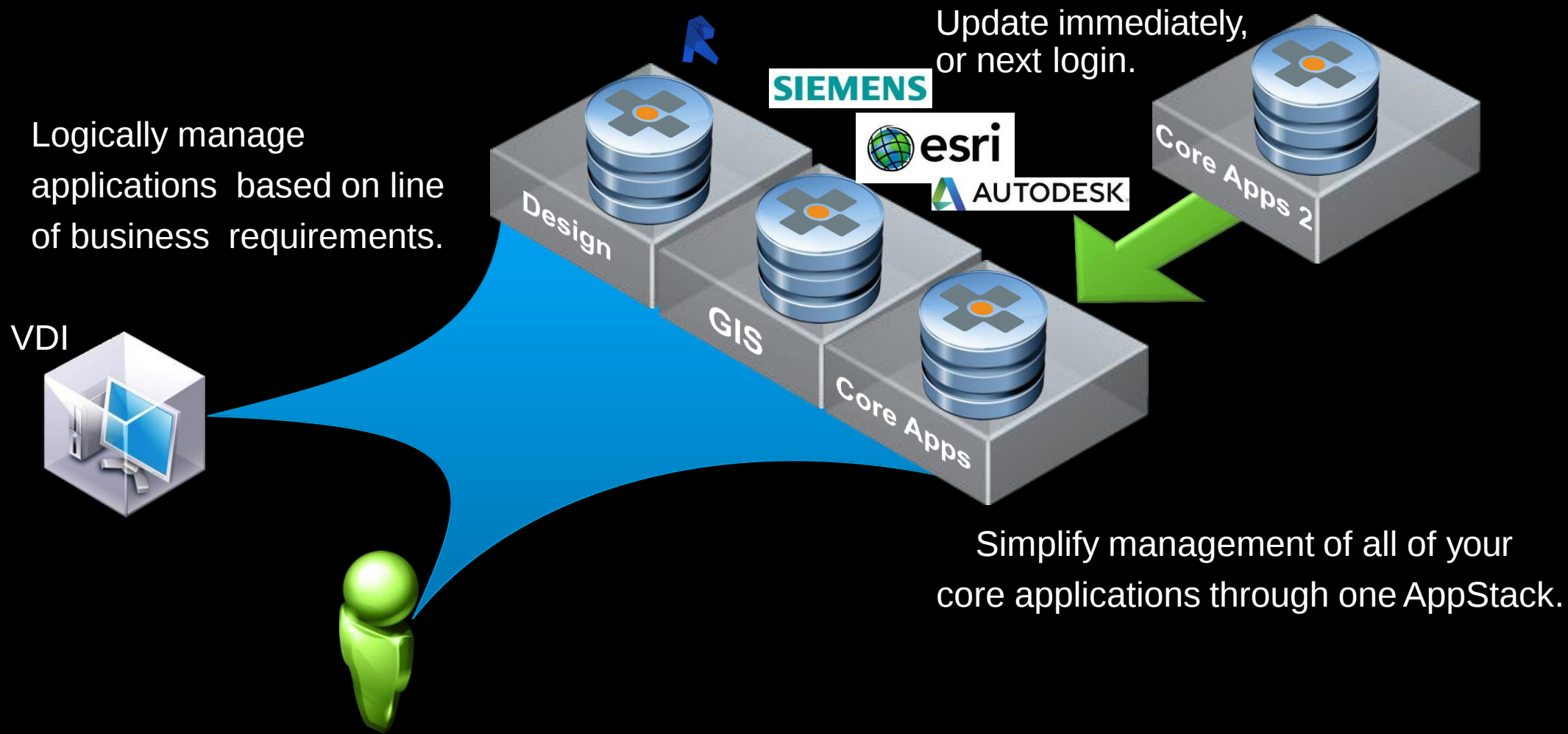
High Performance Compute Option for Virtual Workstations

GPU Pass-Through



BENEFIT: SIMPLIFY APP DEPLOYMENT AND UPDATES

DELIVER, UPDATE, AND RETIRE ANY SET OF APPLICATIONS IN SECONDS WITH APP VOLUMES





INTRODUCTION

- IT Departments are responsible for the datacentre, desktop, application, workplace mobility and device strategy. A desktop delivery strategy will be closely tied to the application strategy.
- Desktop delivery technology has evolved considerably in the last ten years and now more than ever the number of options and complexity can be overwhelming.
- Today's session focus is Microsoft Remote Desktop Services is to help navigate the desktop delivery technology and options from Microsoft.
- There is no single right choice for desktops...
- Or is there?

WHAT ARE REMOTE DESKTOP SERVICES?

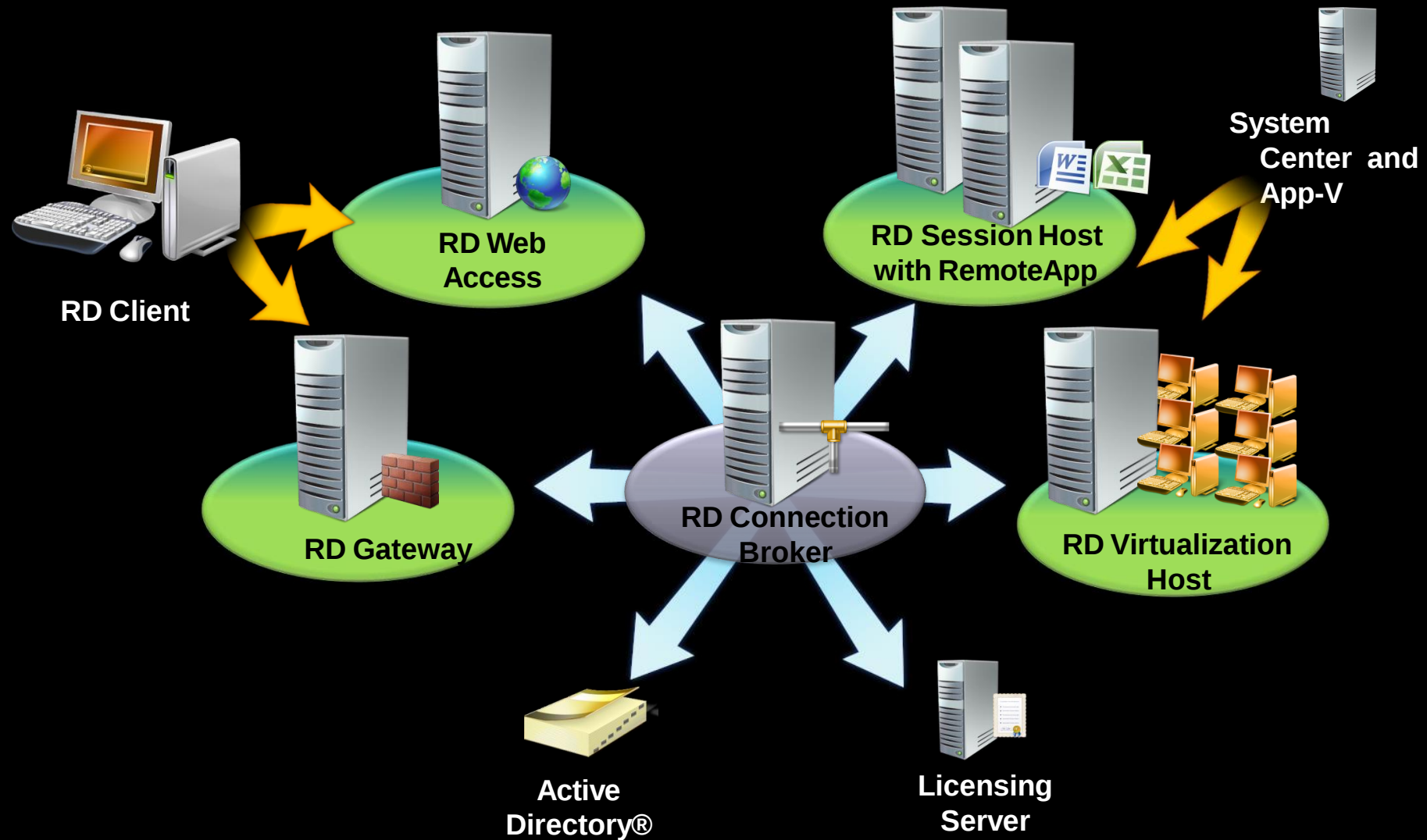


Remote
Desktop
Session Hosts

RDSH

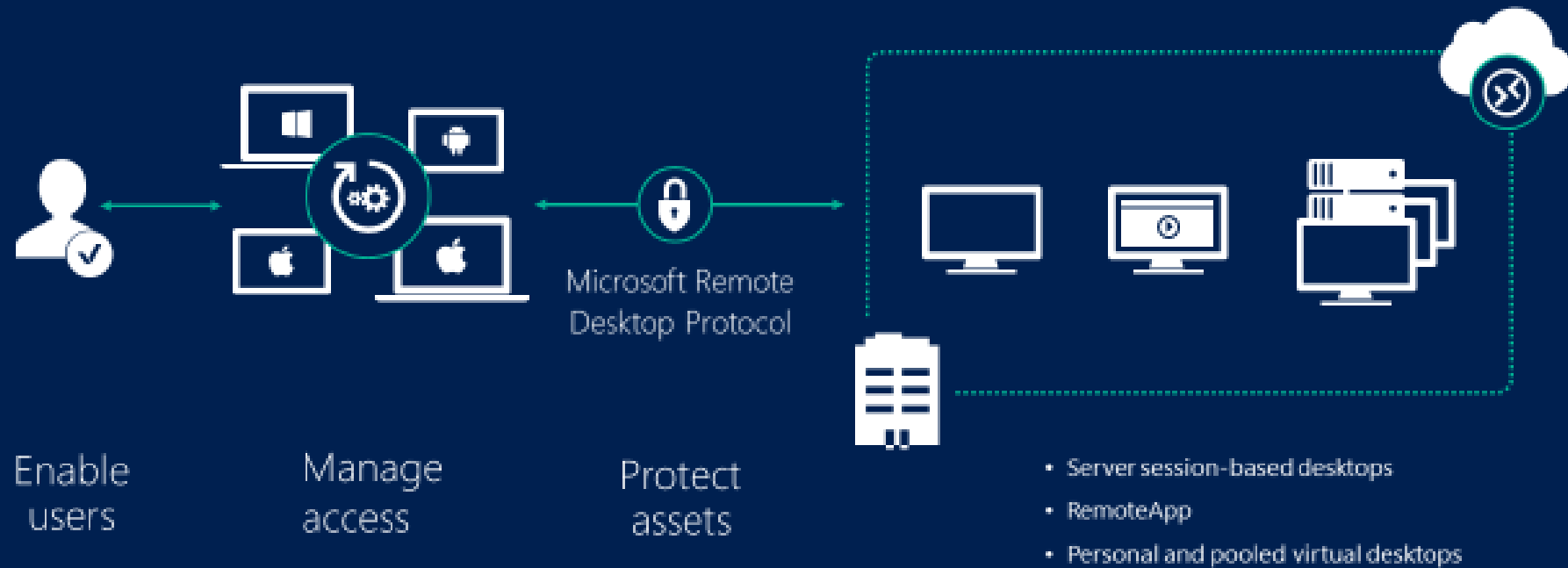
- Session-based presentation virtualization segment of Microsoft's virtualization technologies
- Enables centralized application management
- Helps keep the data in the datacenter
- Has proved to be very popular in the Jersey markets address bandwidth and satellite offices.
- Provides connection brokering for Virtual Desktop Infrastructure (VDI)

REMOTE DESKTOP SERVICES AND VDI ARCHITECTURE



REMOTE DESKTOP SERVICE OVERVIEW

Remote Desktop Services



KEY CHALLENGES

Performance:

Login times and general application performance should be consistent (they only notice when it's not good!) Network bandwidth and latency

User Experience (UK):

Multiple devices, multiple locations, one experience.

Application Compatibility:

Application X interferes with application Y, application Z only works with legacy OS.

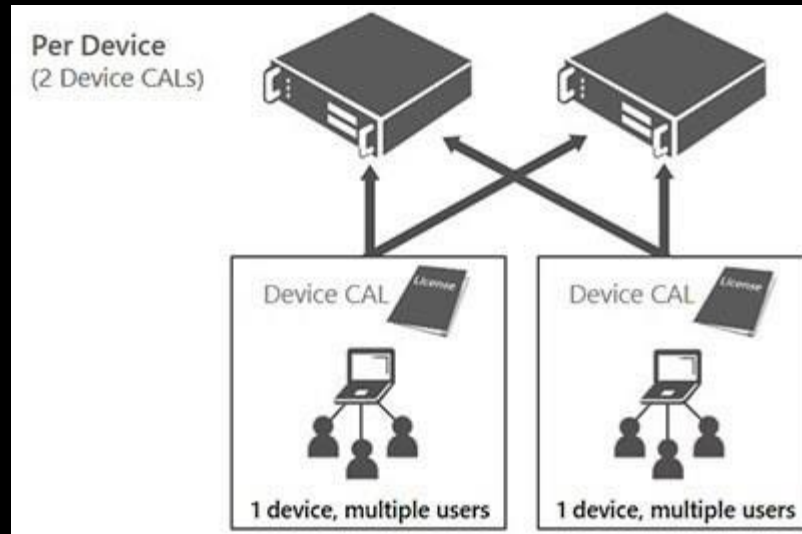
User Density:

The number of users per virtual machine or physical server, greater

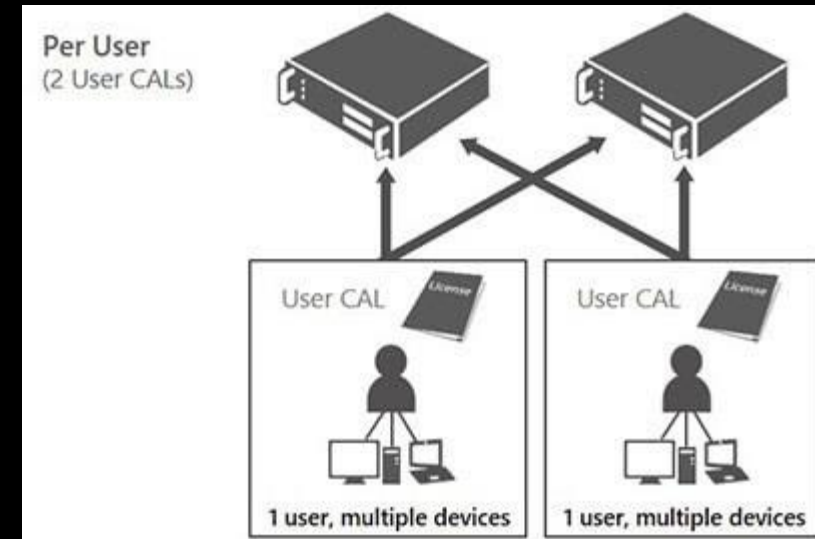
Systems and User Management:

Simplified management tools for administrators.

REMOTE DESKTOP SERVICE : PER DEVICE/PER USER



Per device license



Per user license

THANK YOU

