



# **VMware View 3**

## **Take Control of Your Desktops and Applications**

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VMware

# AGENDA

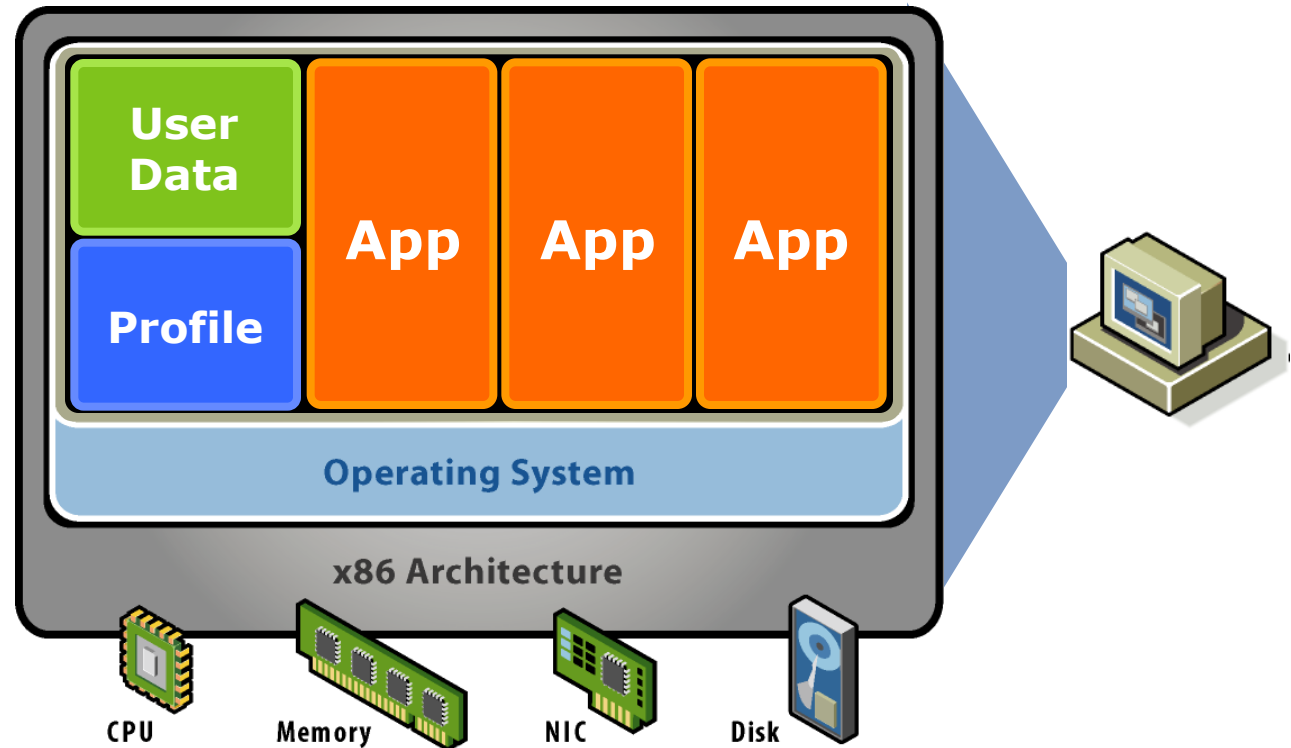
## **Desktop Challenge**

**The VMware View 3 Solution**

**Customer Deployments**

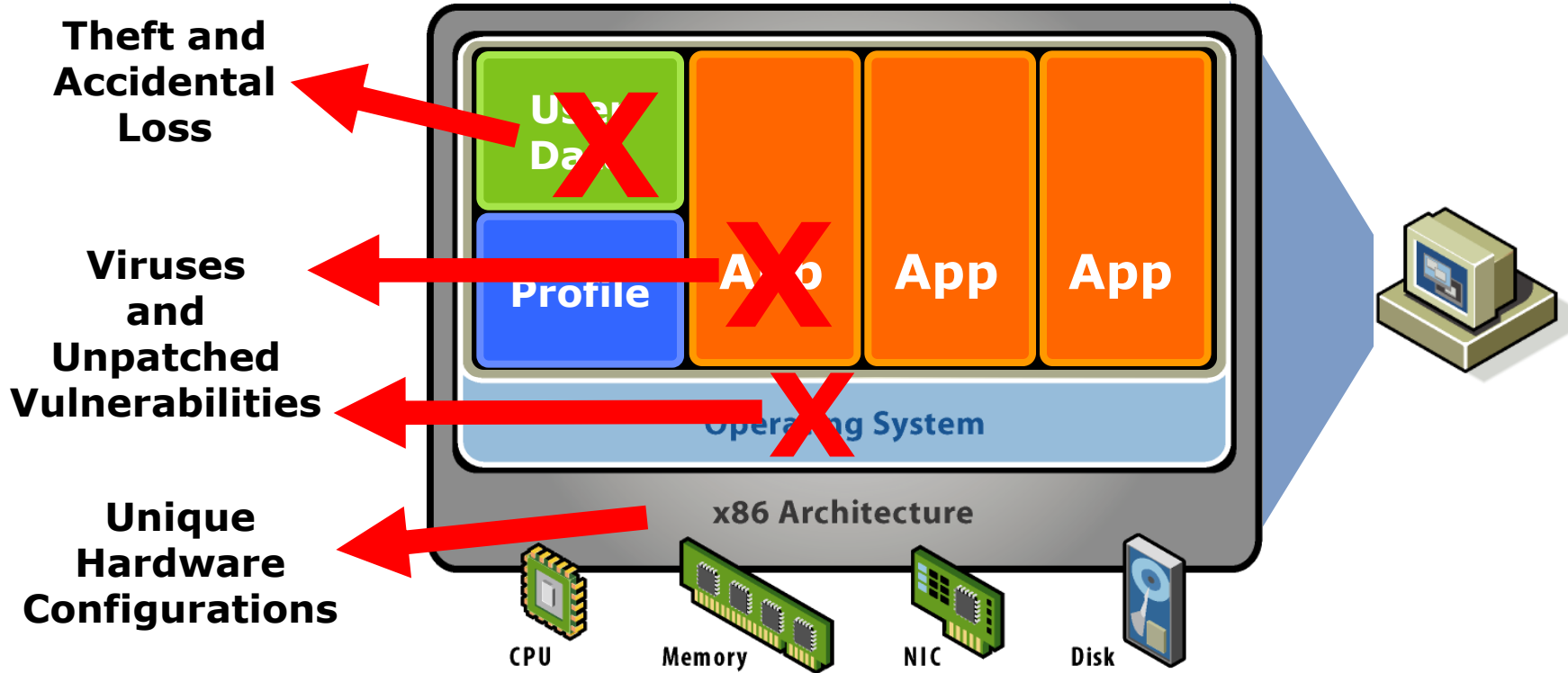
**Next Steps**

# Typical Desktop Build



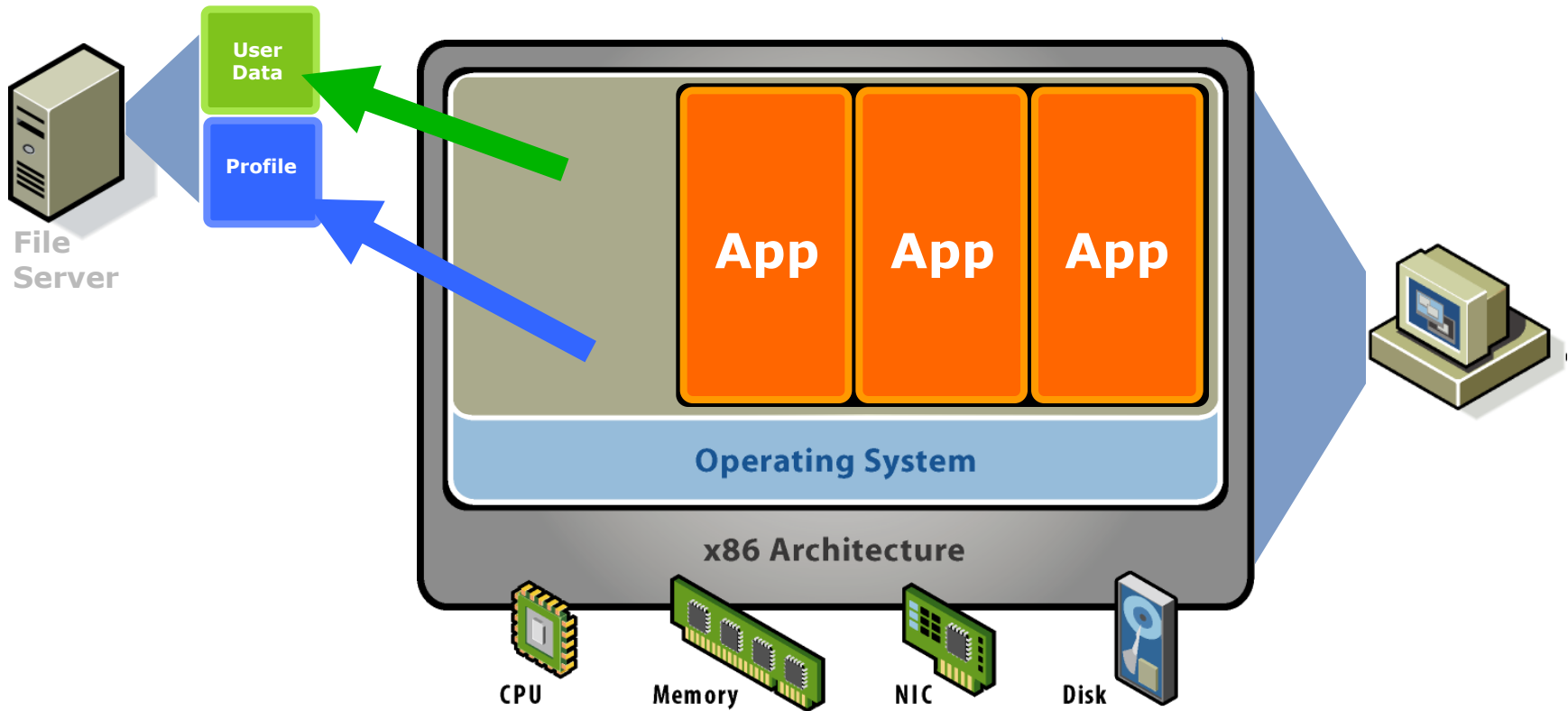
A typical desktop has everything bundled into a single device with a complex intertwined collection of software and data.

# The Problem



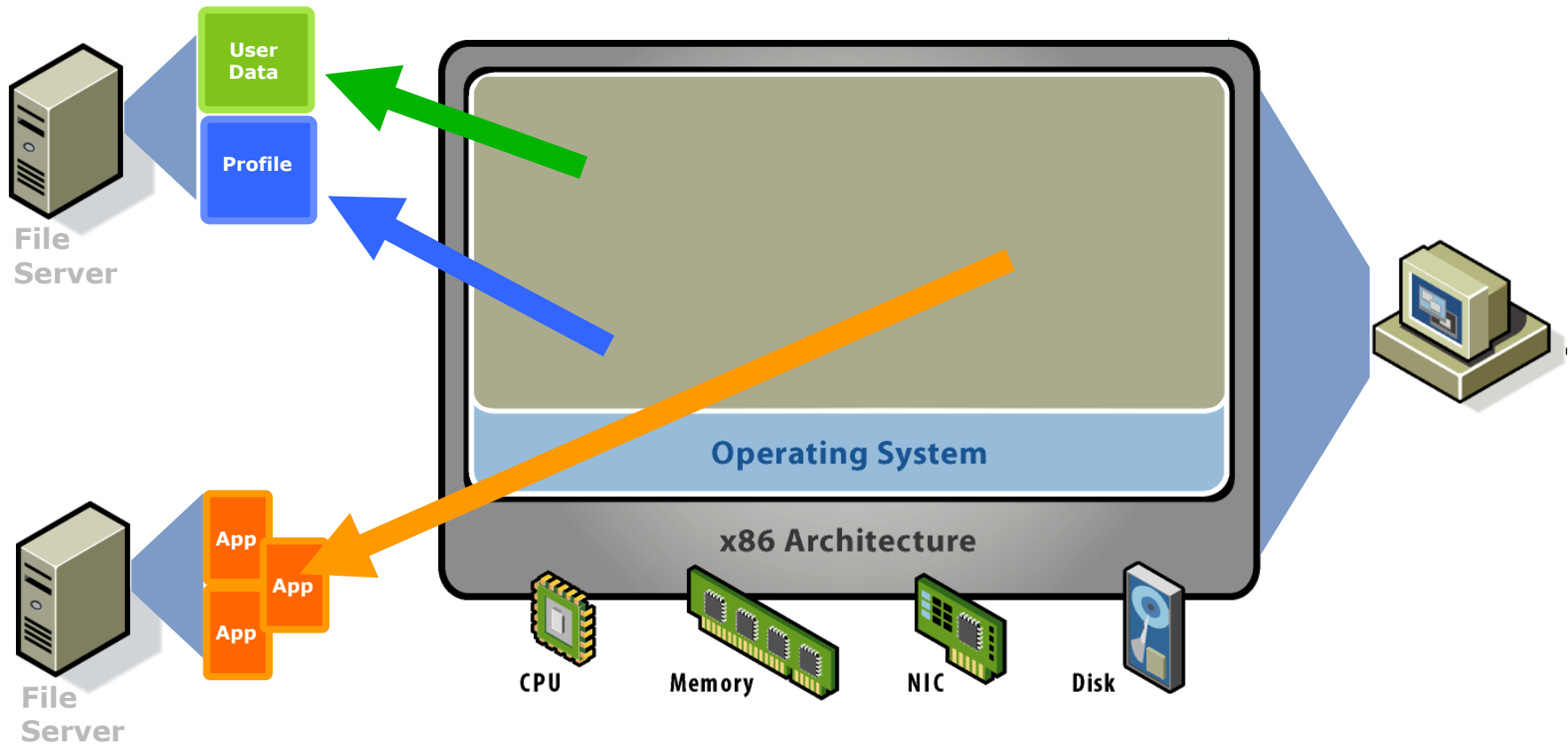
Tightly bound components means that a failure in any area means the entire desktop is unavailable.

# Network File Shares for Data



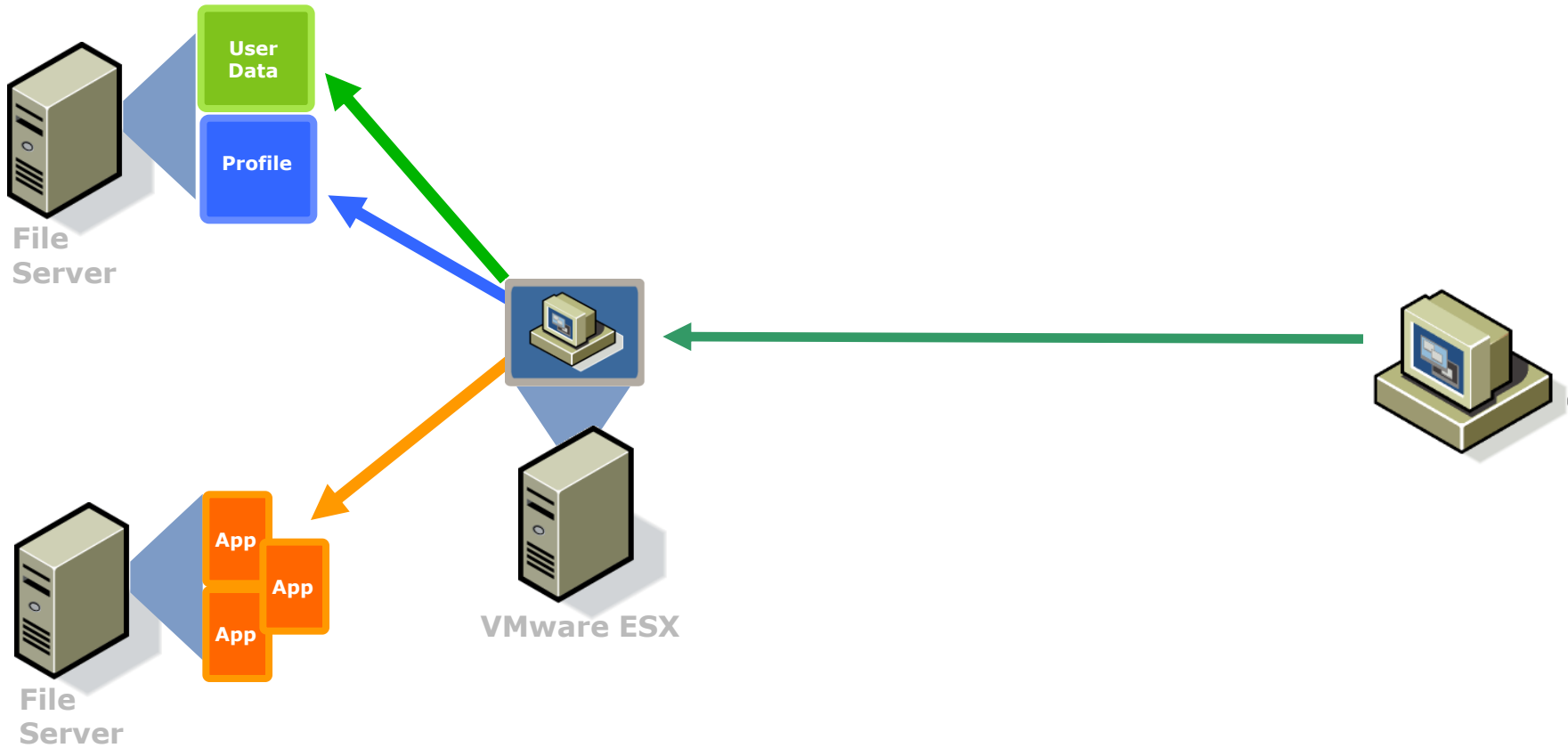
User data is stored on network file shares, where it can be backed up and secured.

# Application Virtualization



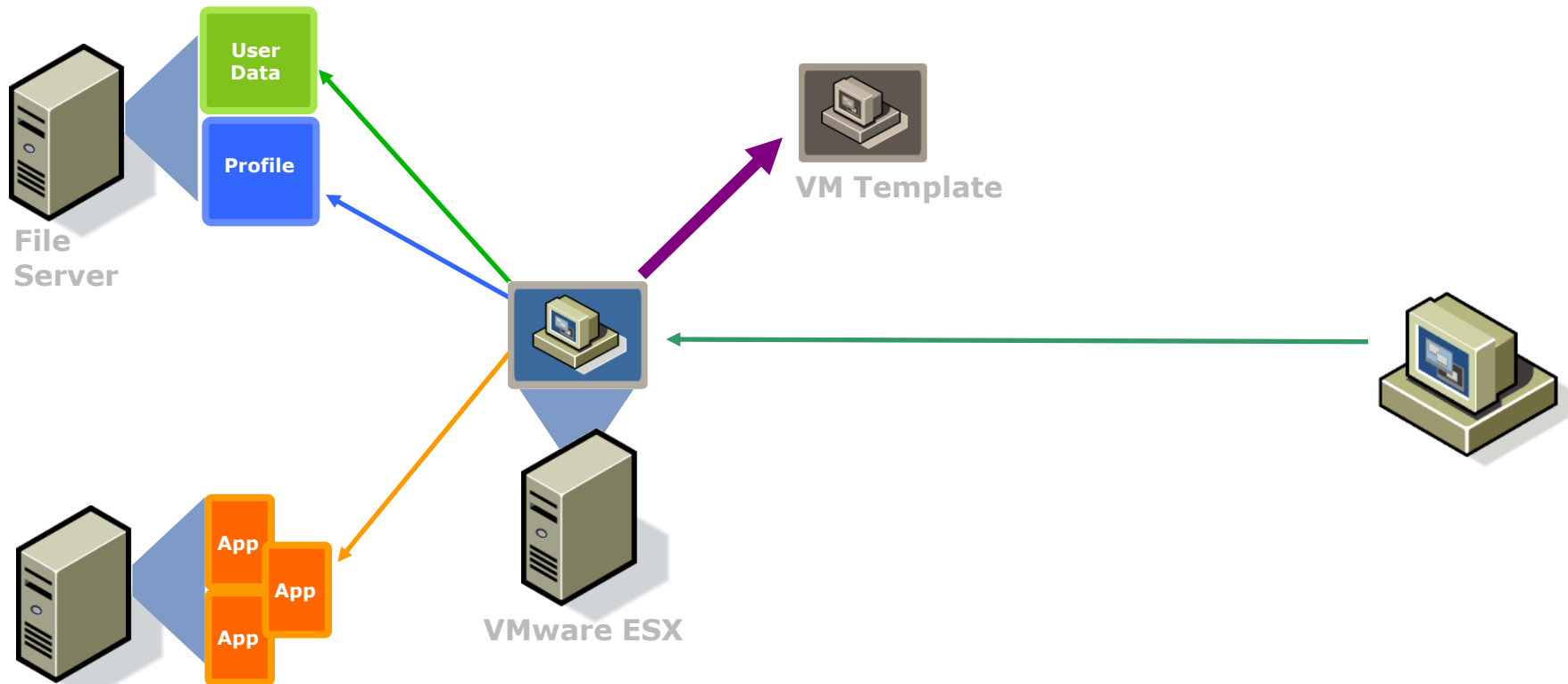
Using Application Virtualization such as Thininstall, applications can be moved to a file share and launched without being installed locally.

# Operating System Virtualization



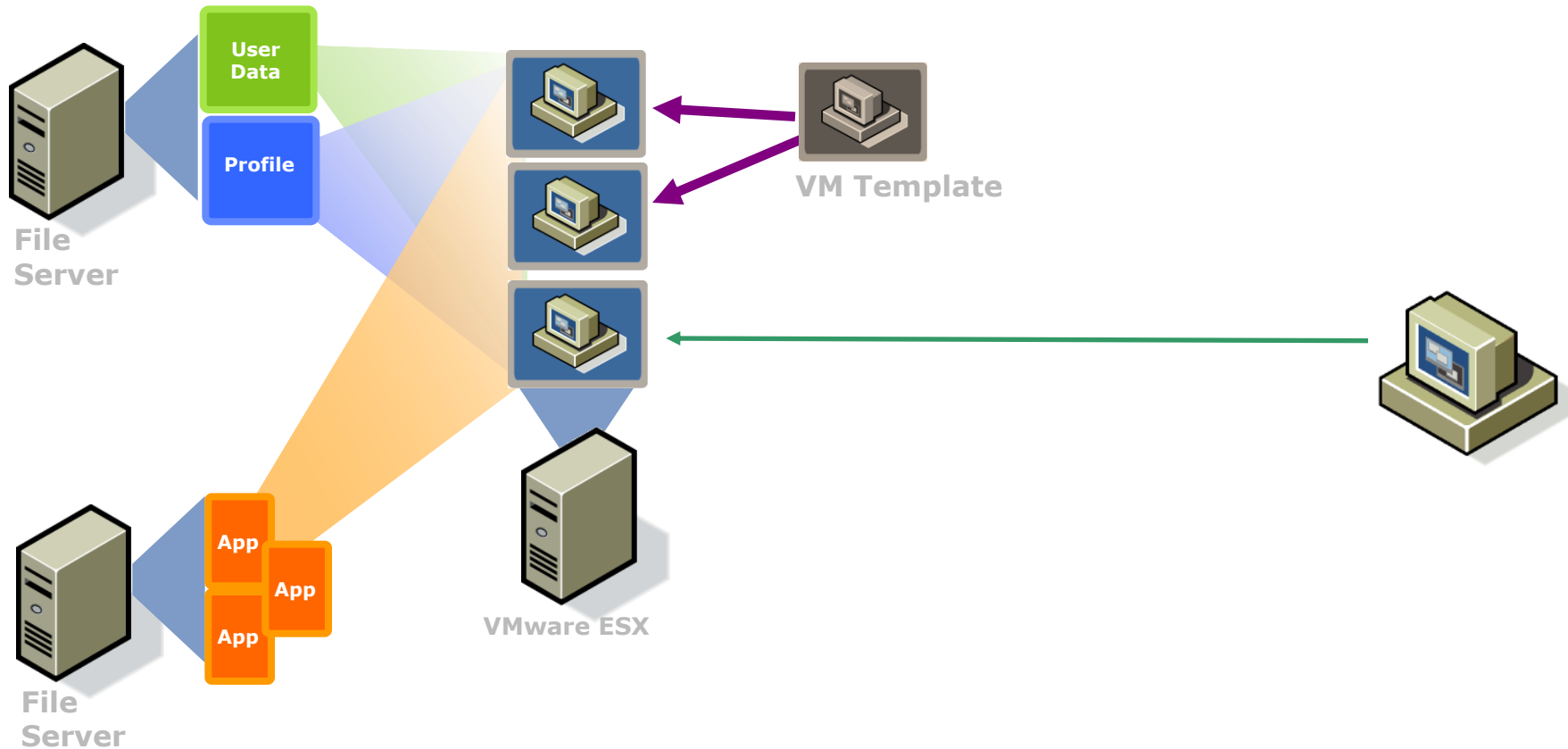
The now minimized OS can be virtualized on servers in the data center, and viewed with a remote protocol.

# Operating System Virtualization



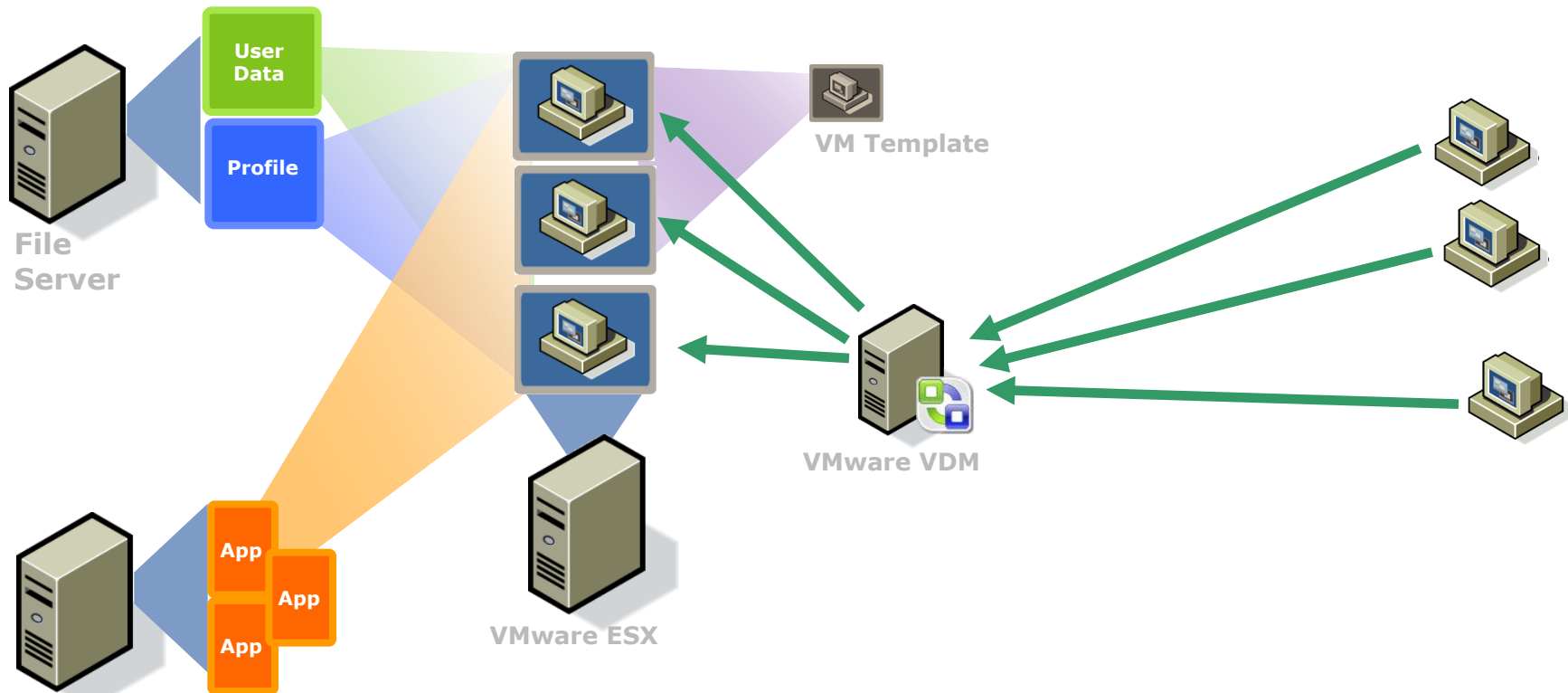
The minimized OS can be converted to a template to create additional virtual machines.

# Automatic Provisioning



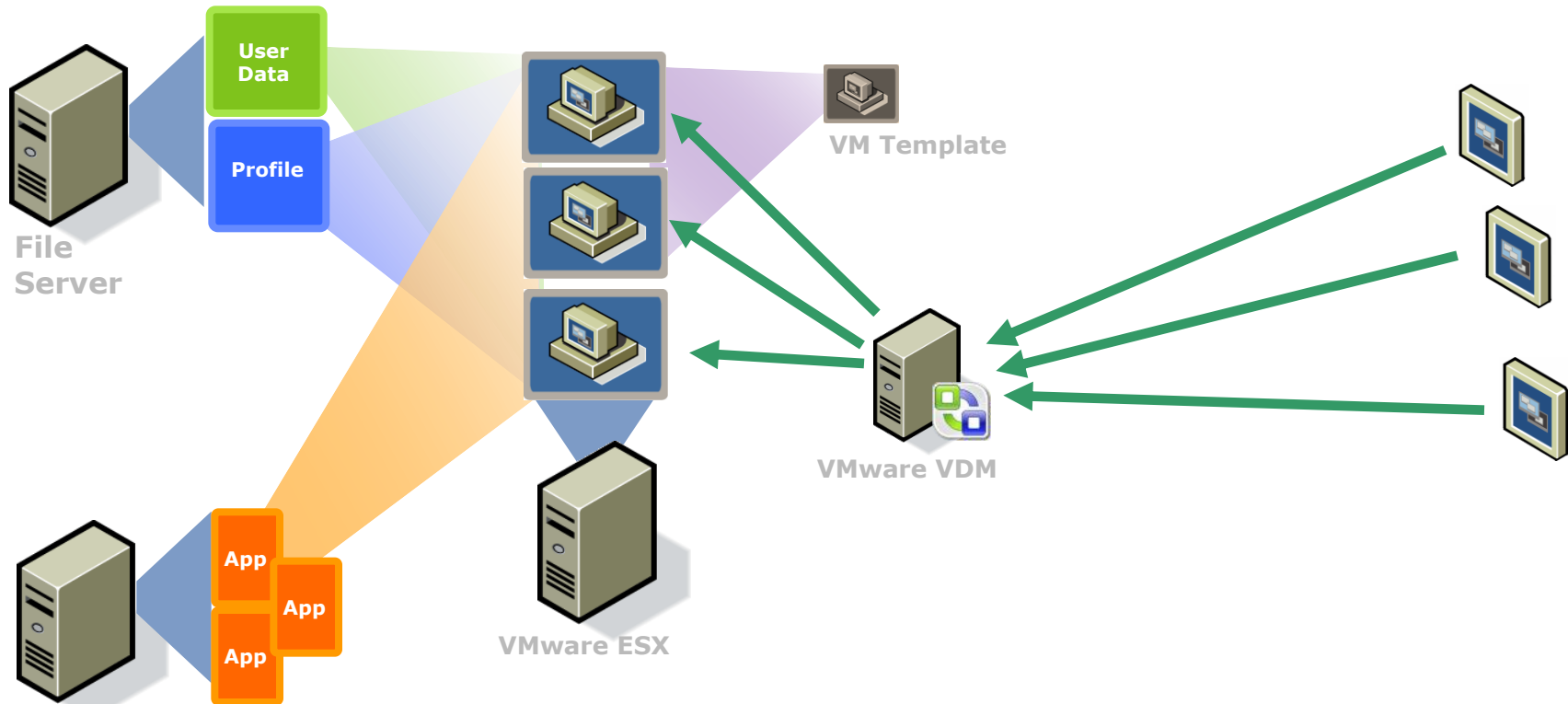
Automatic Provisioning technology can spin up VM's on demand. Since applications are separate, a single template can be used.

# Connection Brokering



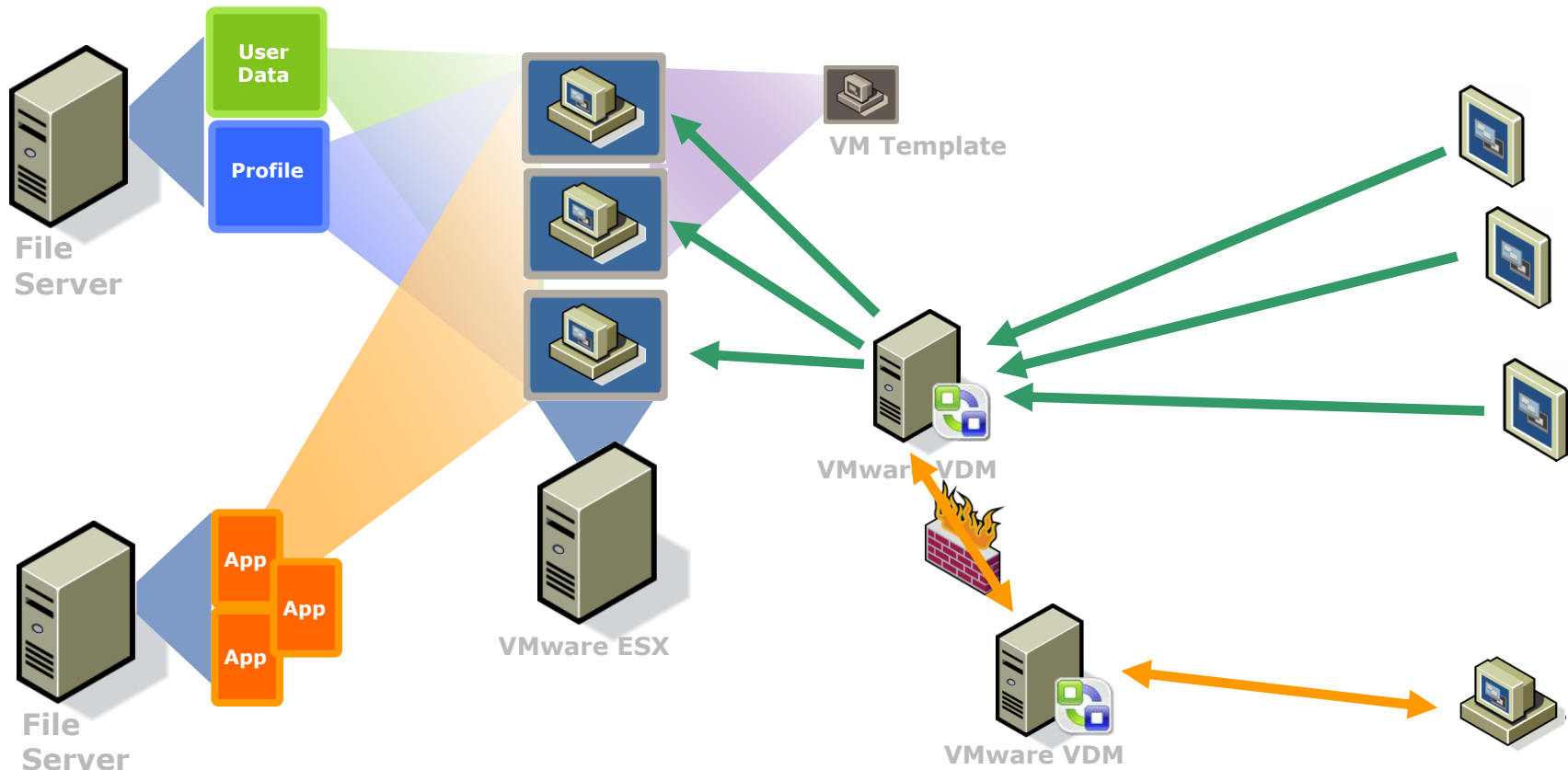
A connection broker allows selection of a VM on demand, breaking the link between a single user and a single desktop

# Thin Clients



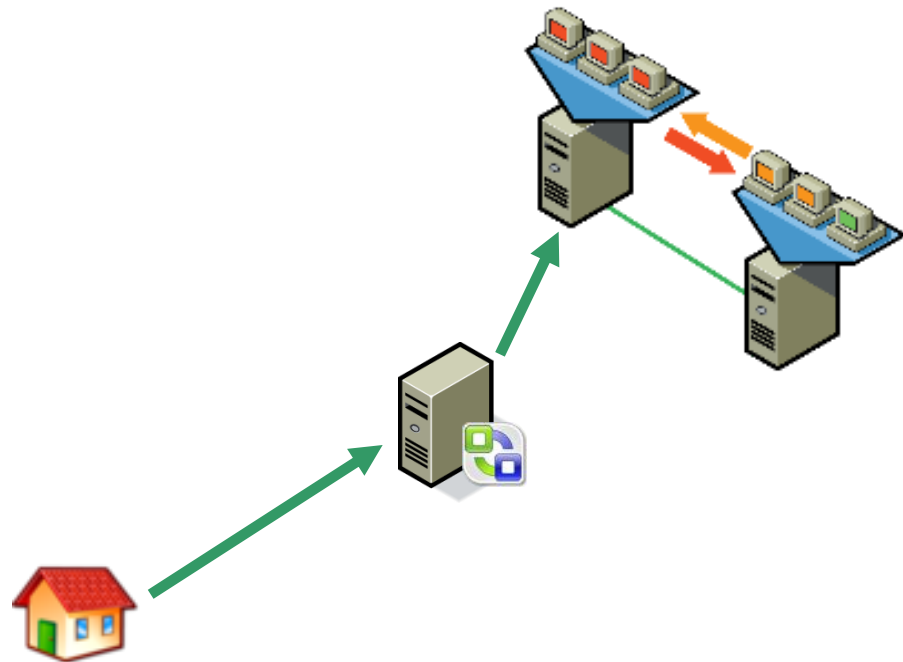
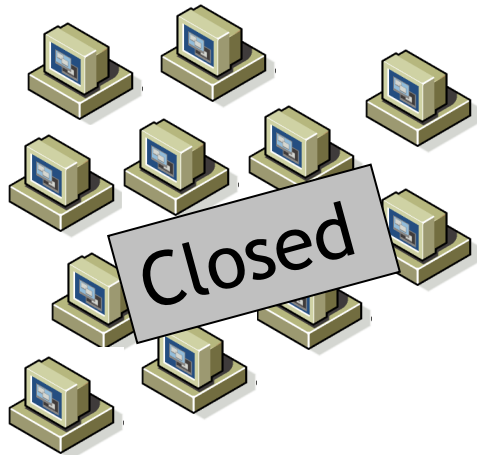
The need for full PC's at the endpoint is eliminated and easy-to-maintain thin clients can be deployed.

# External Users



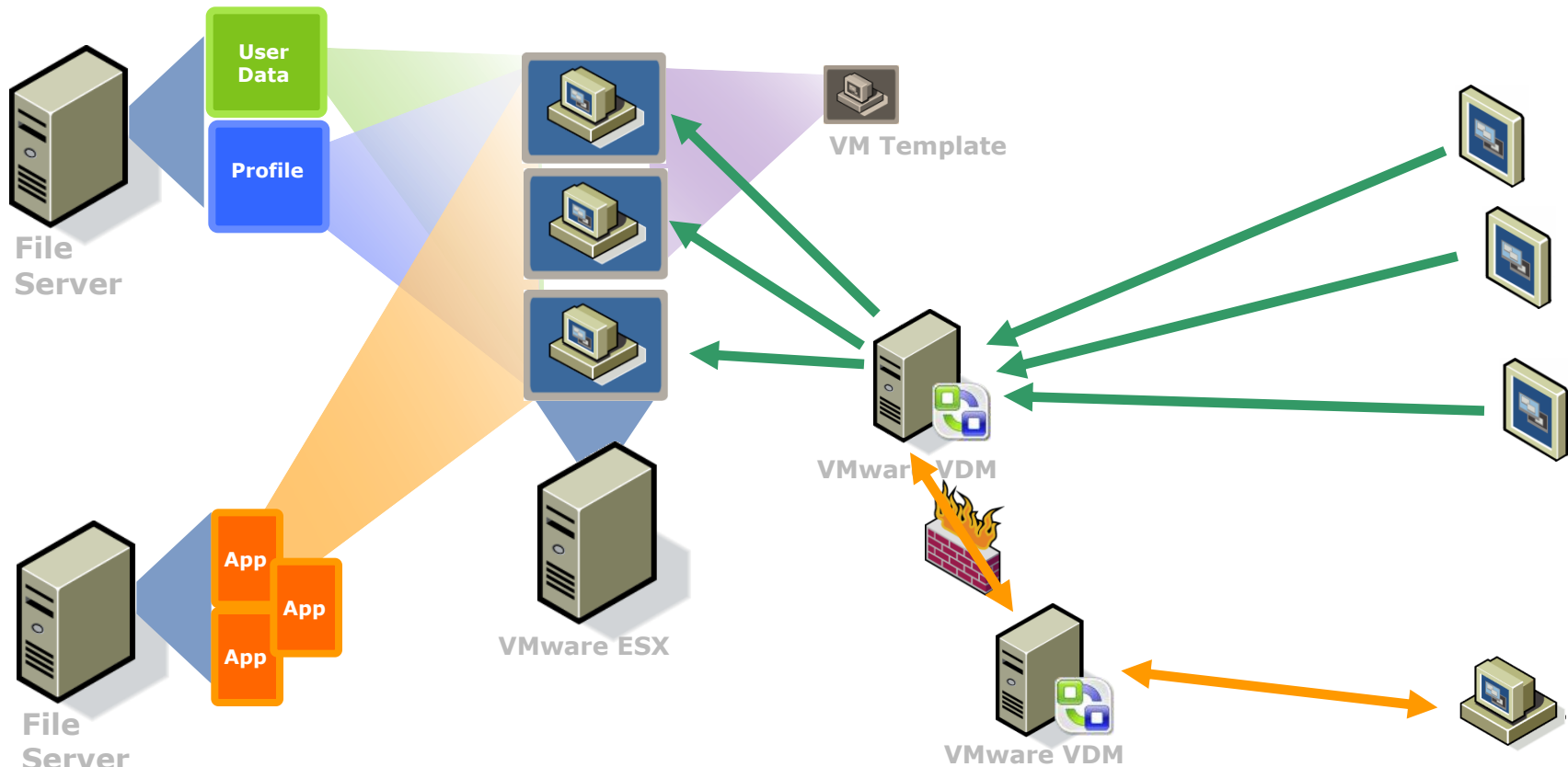
With Encrypted tunneling, users can work from home or contractors can work from off-site locations without a VPN.

# Disaster Scenarios



With a fully virtualized desktop, users get the same experience from home, even when their desk isn't accessible.

# VDI = Complete Freedom



**Work from Anywhere. No Dependencies = Change Any Component.  
Instant Desktops. Instant Fix. Easy Backup and Business Continuity.**

# AGENDA

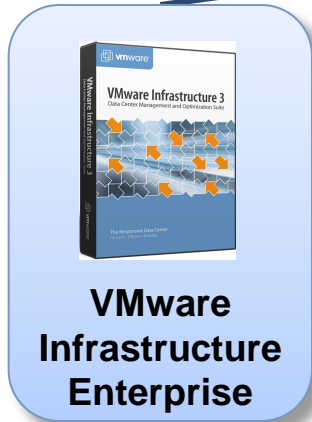
Enterprise Desktop Challenges

**The VMware View 3 Solution**

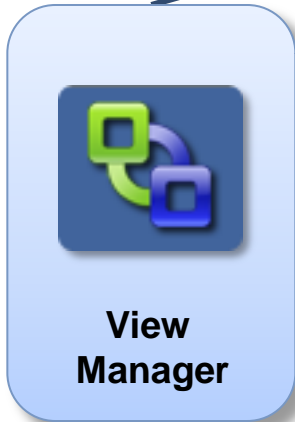
Customer Deployments

Next Steps

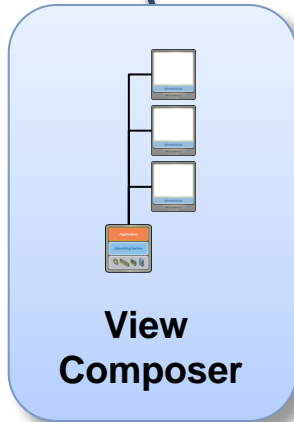
# Components of VMware View



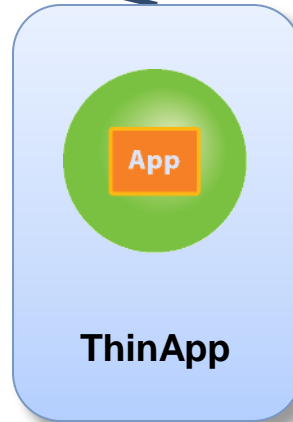
**Proven Virtualization Platform**



**Enterprise Desktop Manager**



**Storage Optimization**



**Application Virtualization**

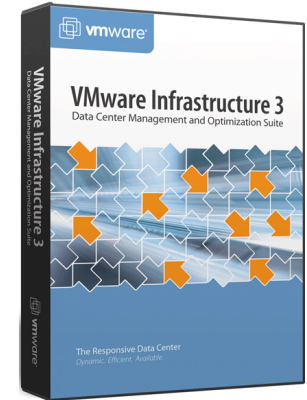


**Anywhere Mobility**

# VMware View is built on VI3: A Proven Platform

## Powerful Mature and Proven

- > Deployed in 100% of the Fortune 100
- > Over 120,000 customers worldwide
- > Complete solution from one vendor
- > Extend powerful data center capabilities to the desktop:
  - Business Continuity/DR (HA, DRS, VMotion, Storage VMotion)
  - Simplify backups & disaster recovery
  - Scalable
  - Security and Reliability



**APPROVED**

# View Manager: Enterprise Desktop Manager

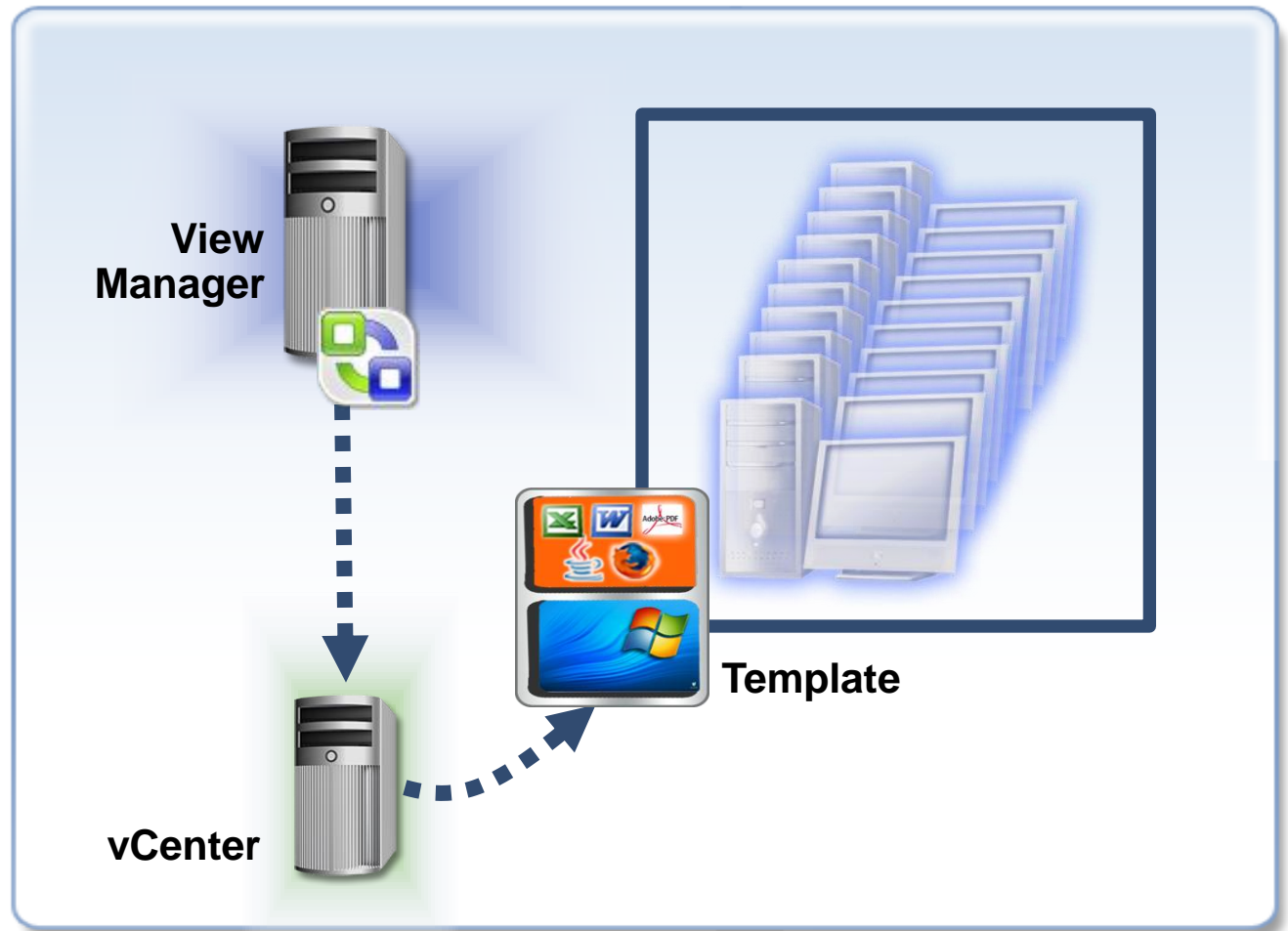
- > Seamlessly integrated with VI3
- > Automated desktop provisioning
- > Centralized management of desktops
- > Scalable for any size organization
- > Flexible, secure access to end user desktops



# View Manager: Automated Provisioning

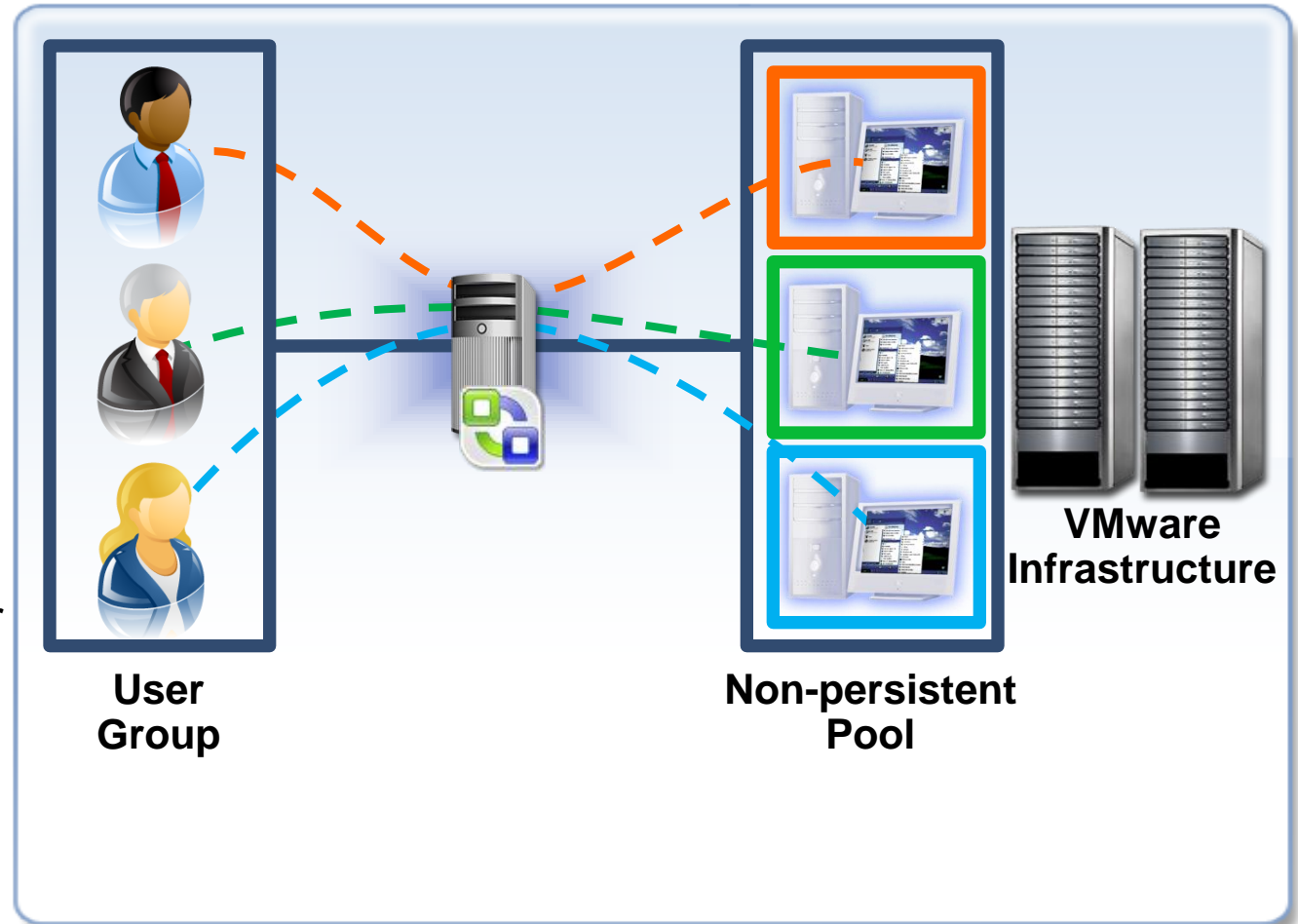
## Pooled Desktops

- > Automated provisioning from template
- > On-demand provisioning
- > A Desktop is always available
- > Identical desktops in a pool



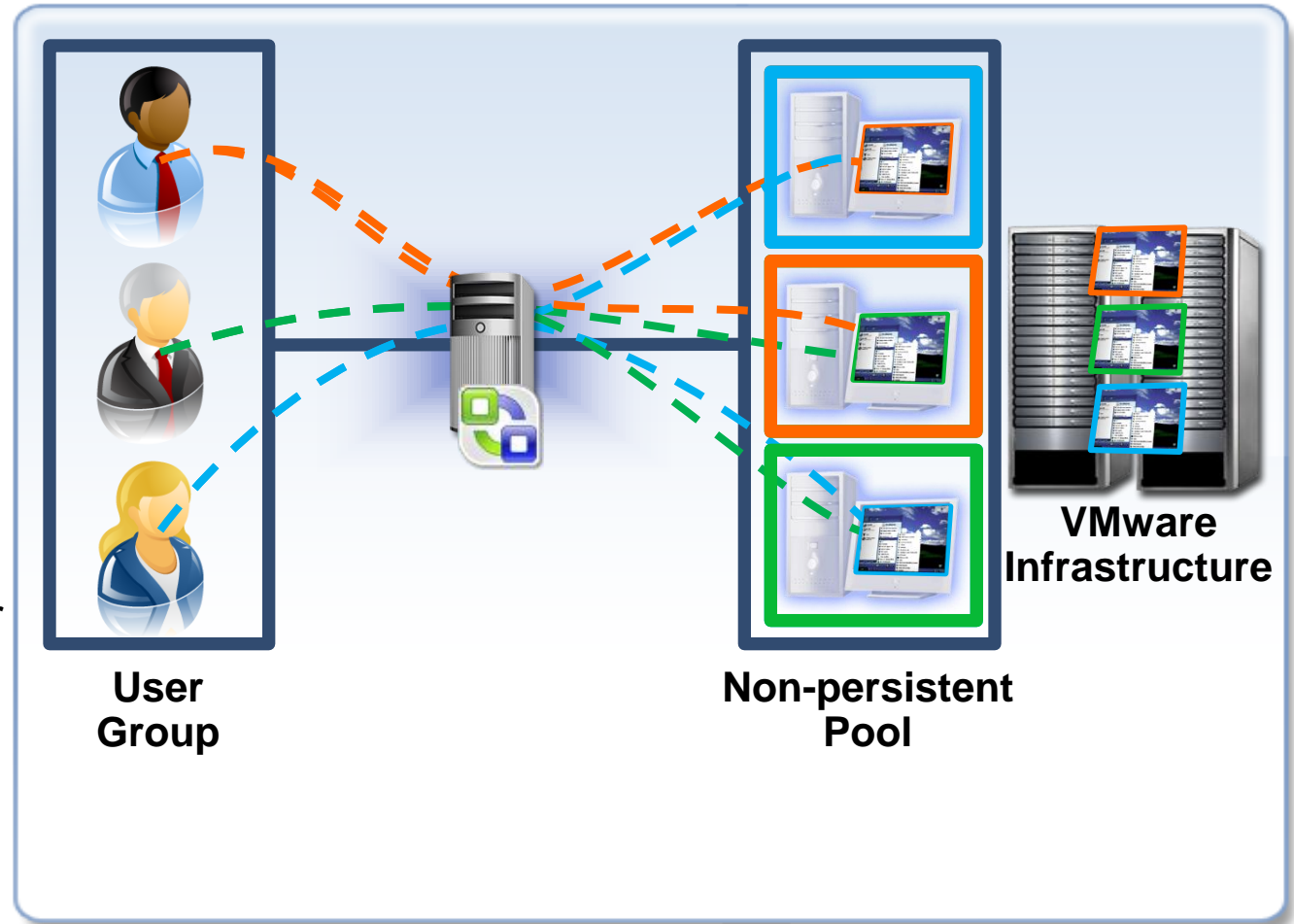
# View Manager: Provisioning Non-Persistent Pools

- > Provisioning from template
- > Automated connection
- > Desktop returned to pool after each use
- > Reverts to pre-determined state for future use
- > For factory workers, kiosks, transaction workers



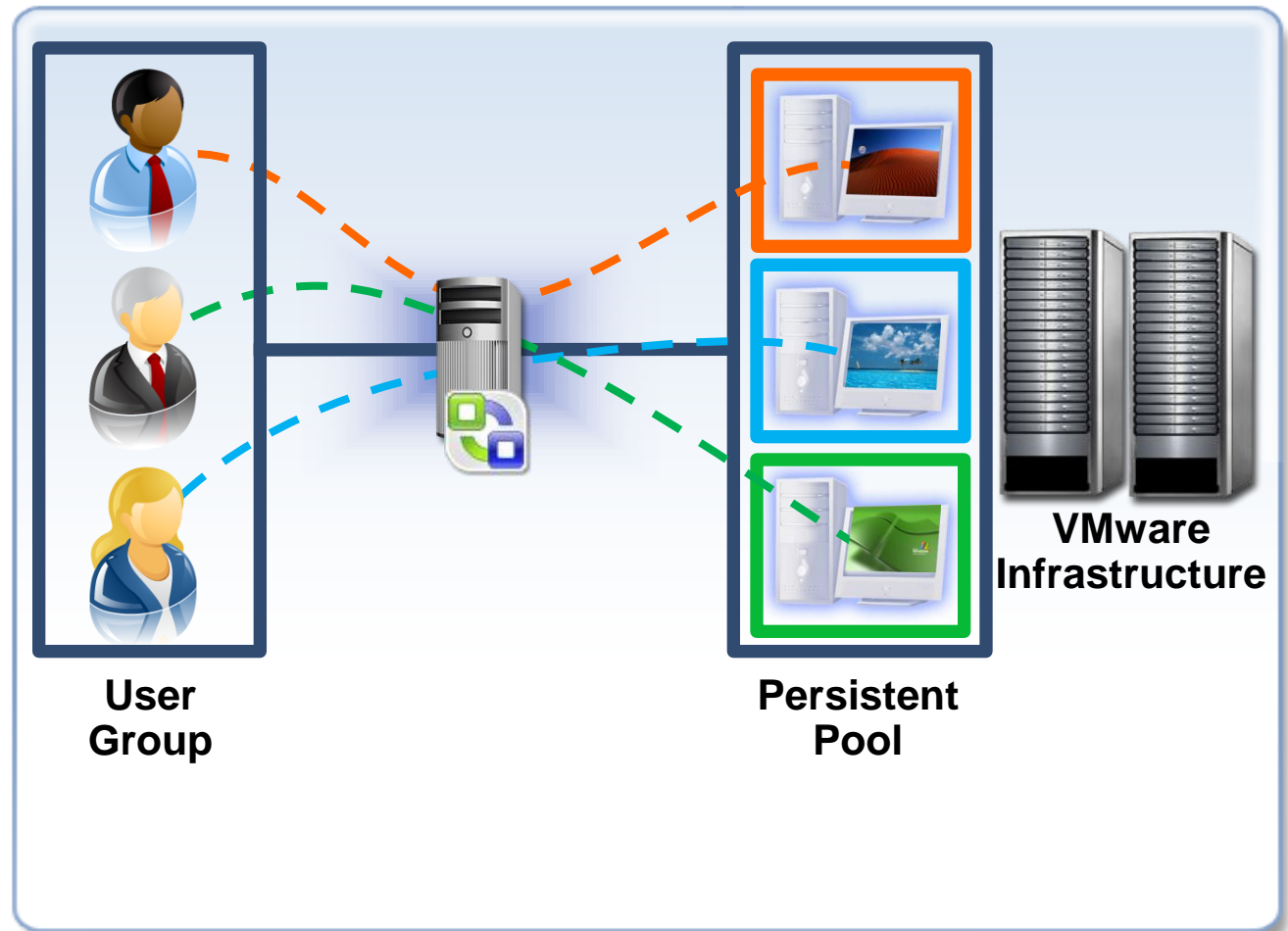
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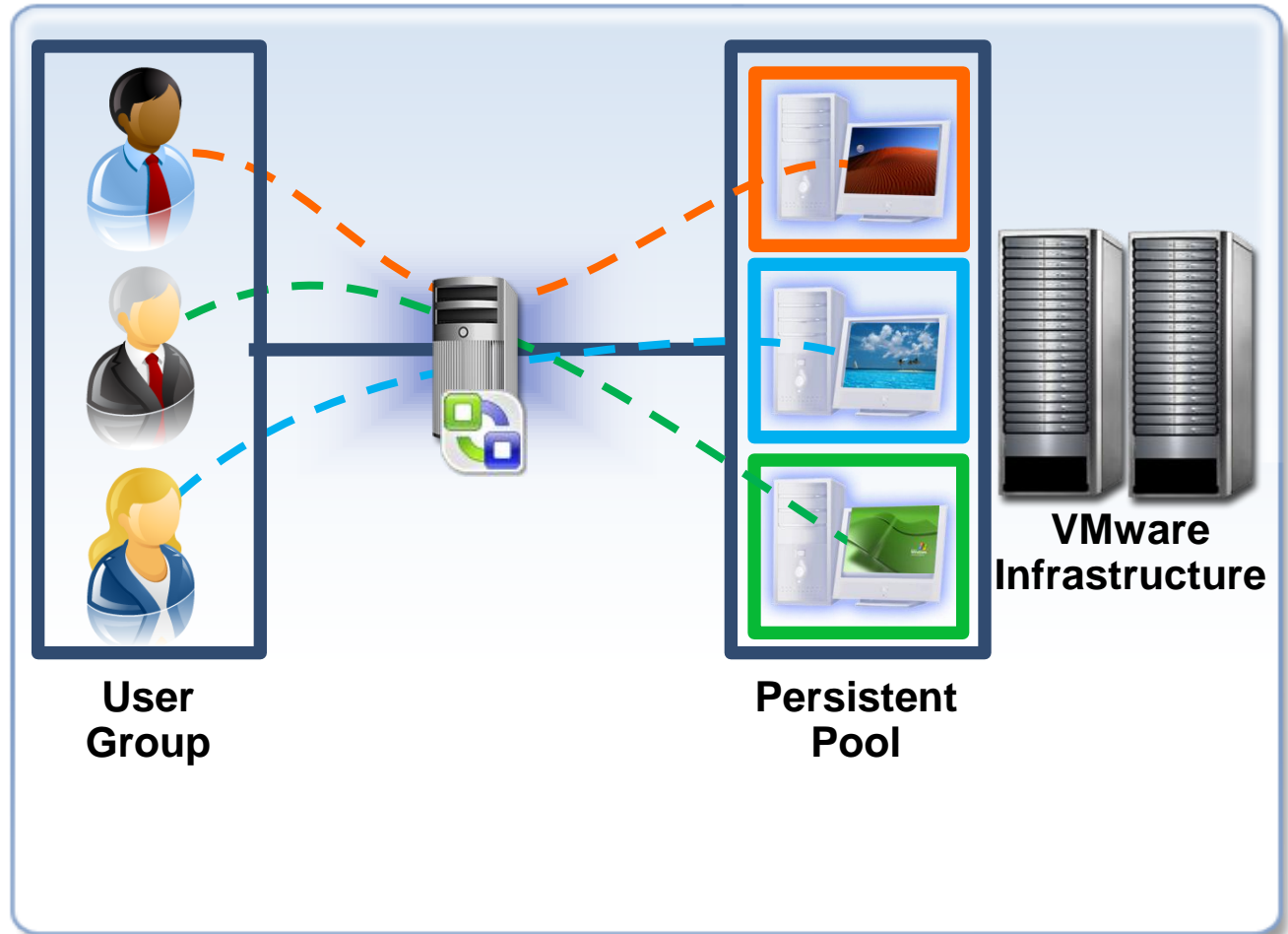
# View Manager: Provisioning Persistent Pools

- > Provisioning from template
- > Automated connection
- > Desktop assigned on first log-in
- > Remains associated with user & can be personalized
- > Ideal for knowledge workers



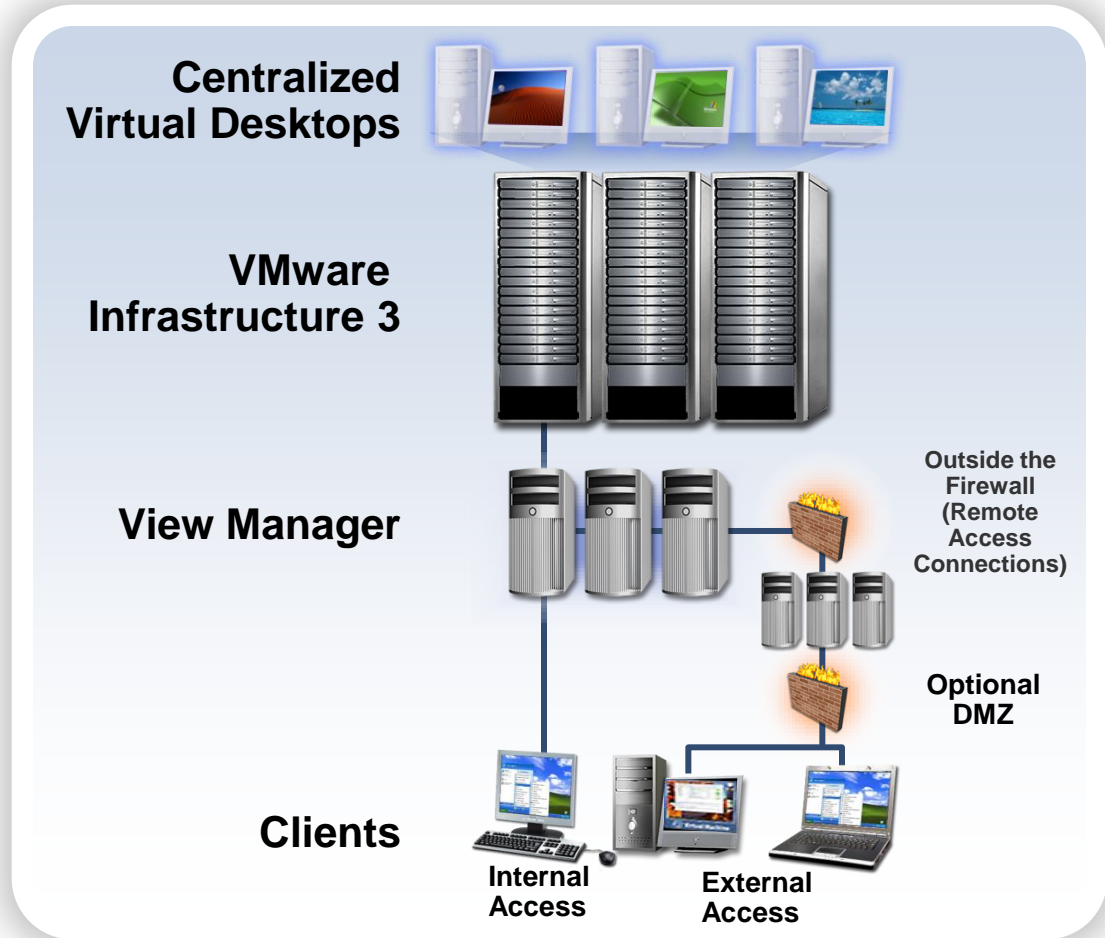
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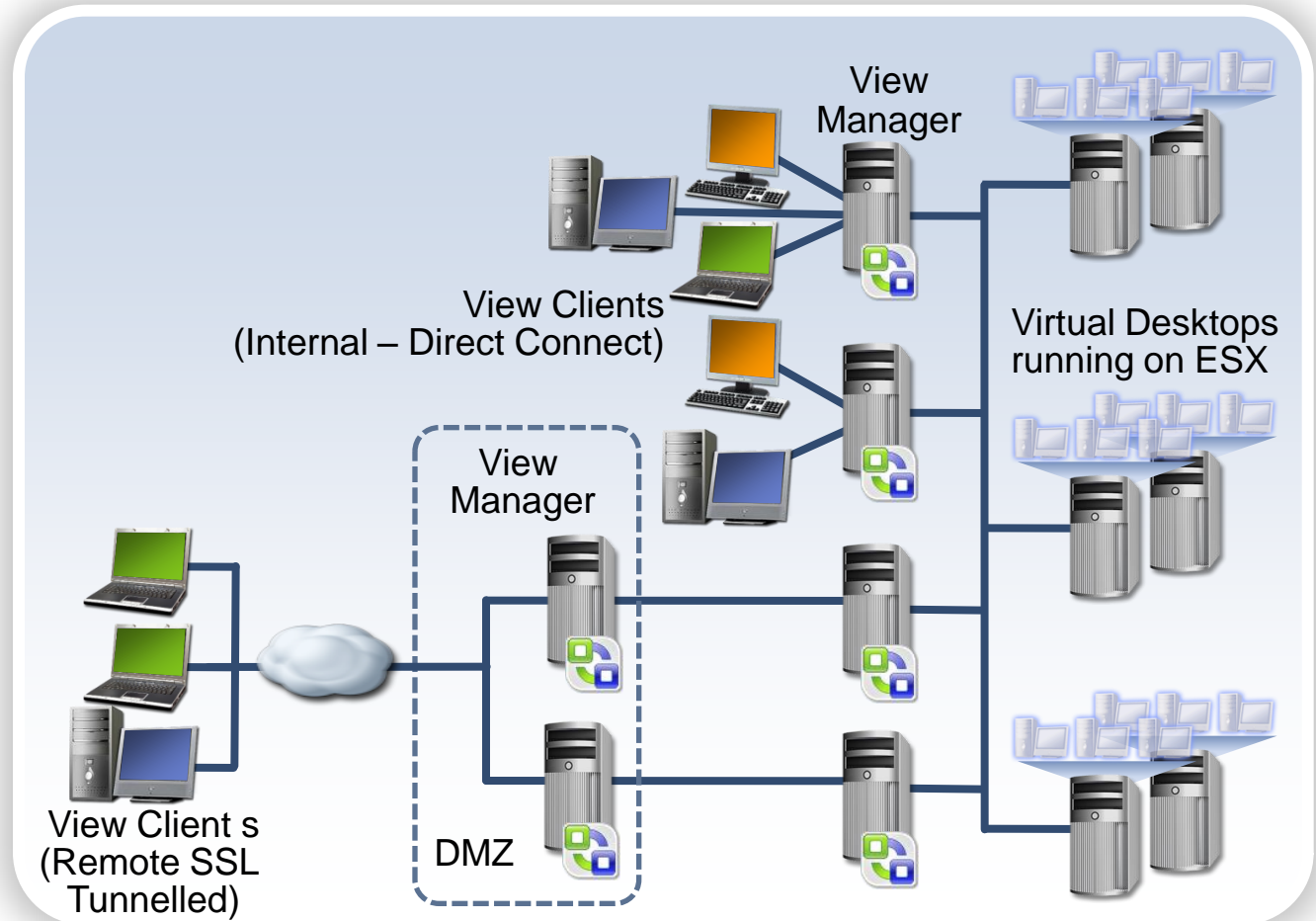
# View Manager: Built In Security

- > SSL encrypted connection between clients and virtual desktops
- > Secure Single sign-on for end users
- > Runs within the DMZ for remote access users
- > Optional integration with SecurID for two-factor authentication
- > Smart Card authentication



# View Manager: Enterprise Class Scalability and Reliability

- > No single point of failure
- > Ability to cluster both View Manager servers and ESX servers
- > Fault Tolerance and High Availability of virtual desktops



# View Manager: Integration with Existing Infrastructure

## Active Directory

- > Retain existing user accounts and policies
- > Single sign on to virtual desktops
- > Retain user-management processes and skills
- > Do not need to modify existing Active Directory in any way
- > No Schema Changes

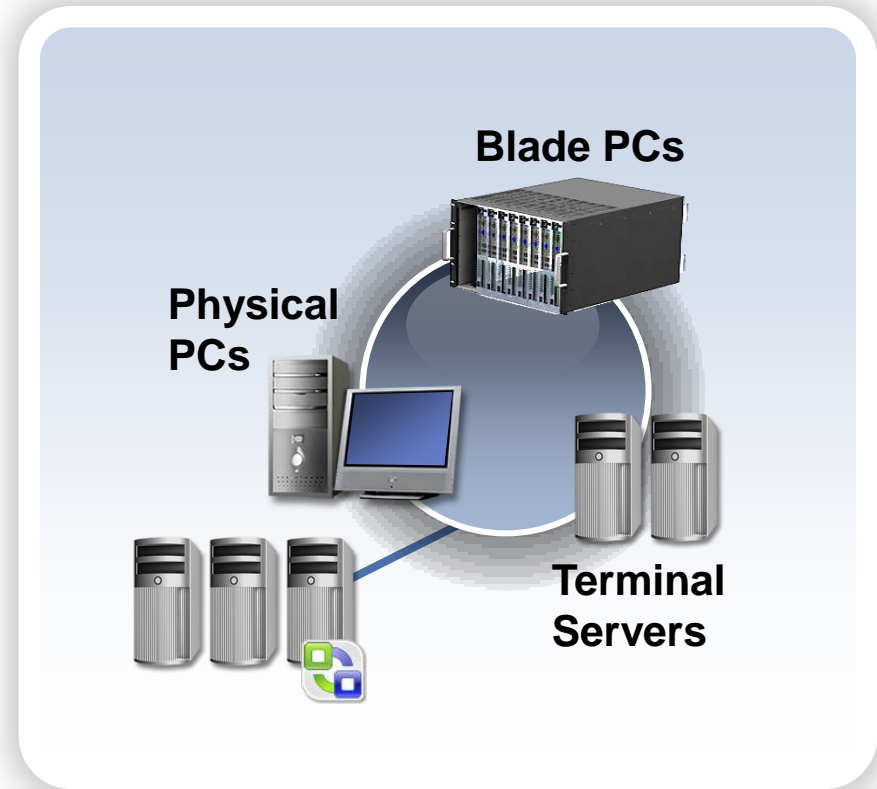
## SecurID

- > Optional integration with SecurID for two-factor authentication



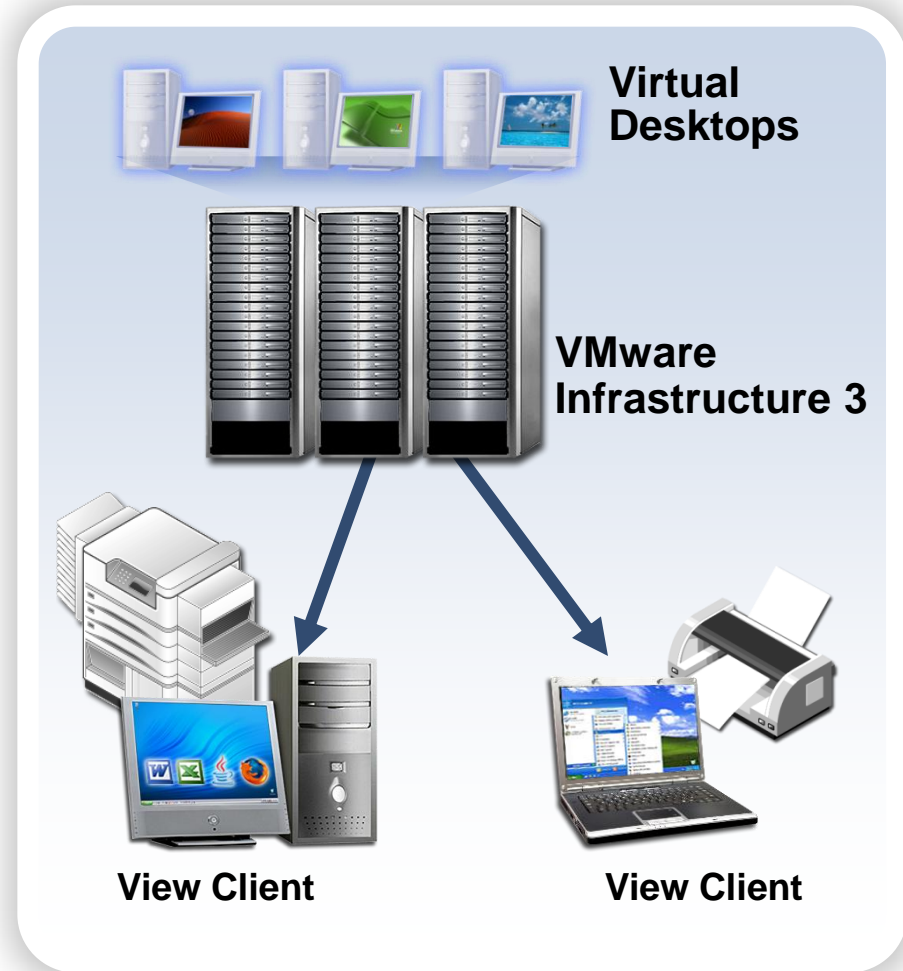
# View Manager: Unified Access

- > Leverage View Manager's secure connection brokering capability for other platforms accessible by RDP
  - Terminal Servers
  - Blade PCs
  - Physical PCs
- > Load Balancing of multiple Terminal Servers
- > Monitoring and auditing within View Manager



# View Manager: Virtual Printing

- > Driver Free Printing: No Installation and Maintenance of printer drivers
- > All printers automatically available
- > Minimize network utilization with advanced print stream compression
- > High quality printing even over WAN connections



# View Manager: Enhanced User Experience

- > Multimedia Redirection:
  - Multimedia stream decoded at client
    - Better user experience
    - Min impact on servers, bandwidth consumed
  - Win XP, Win XPe clients supported
- > Support of critical codecs
  - MPEG-1, MPEG-2, MPEG-4-part2
  - WMV 7/8/9, WMA, AC3, MP3
- > USB Redirection
  - Provides support for local storage, scanners, printers

## Remote user experience



# View Manager: Enterprise Desktop Manager



**Seamless Integration With VMware VI3**



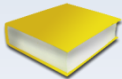
**Automated Provisioning and Desktop Management**



**SSL Encrypted Connections, Single Sign On, Smart Card Authentication, DMZ deployment**



**High Availability and Scalability**



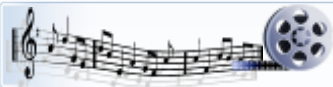
**Active Directory, SecurID Integration**



**Unified Access**



**Virtual Printing (Universal print driver)**



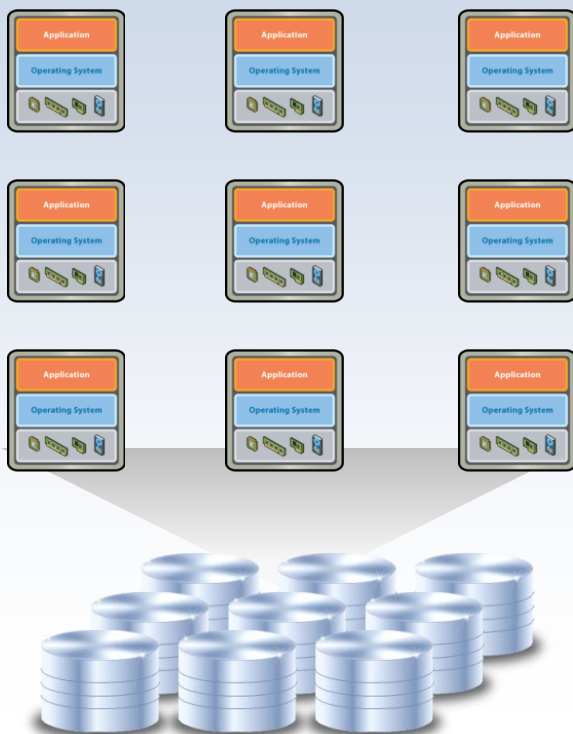
**Multimedia Redirection**



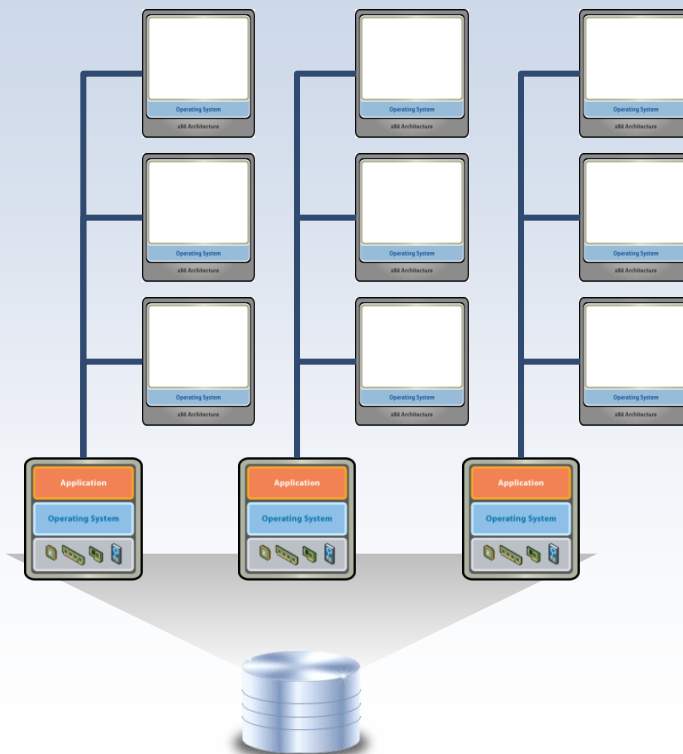
**USB Redirection (Supports Printers, Scanners, etc.)**

# View Composer: Storage Optimization, Simplified Management

## Traditional VDI



## VMware View + Clones



# View Composer: Storage Optimization and Image Management

## Lowering Overall Storage Costs

- > Up to 90% reduction

## Manage 1000s of desktops

## Streamline Desktop Management

- > Quick Provisioning
- > Simplified updating, patching and upgrading while retaining user settings
- > Guarantee updates applied to every desktop



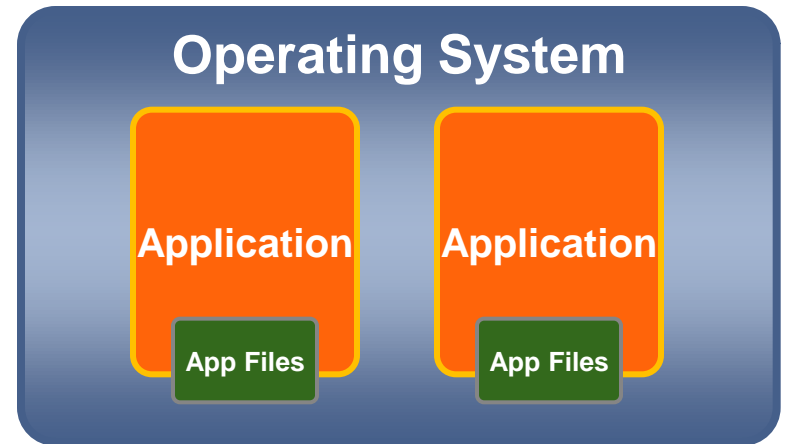
# ThinApp: Application Management through Virtualization

## Problem:

Tightly coupled relationships between OS, Applications and Data.

## Symptoms:

- > Application conflicts and issues with “badly behaving applications”
- > Inability to deploy all required applications to specific desktop image
- > Expensive application compatibility testing with large testing matrix



**Solution:** VMware application virtualization to decouple applications and data from the OS

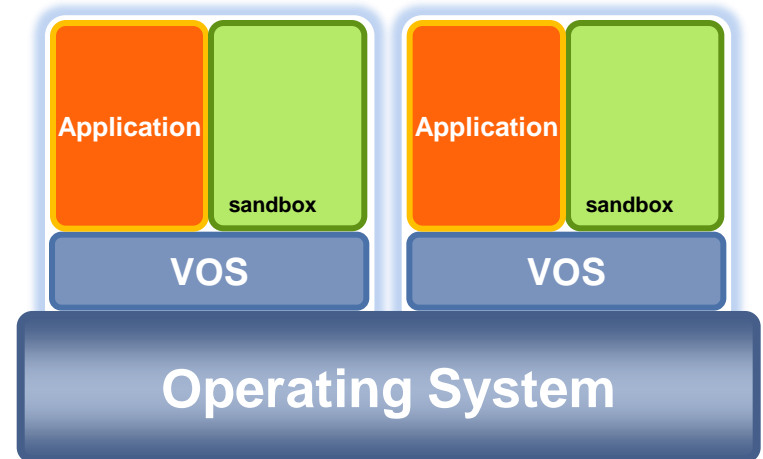
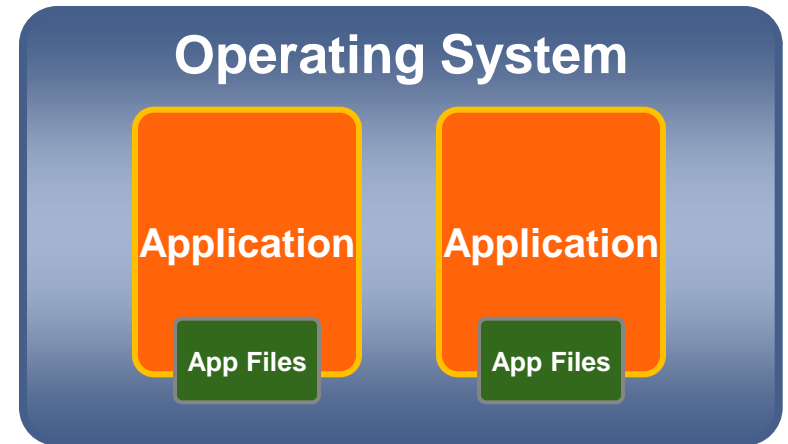
# ThinApp: Application Management through Virtualization

## Features

- > Decouples applications & data from OS
- > Agent-less architecture
- > Wide platform and application support
- > Plugs into existing Application Management tools

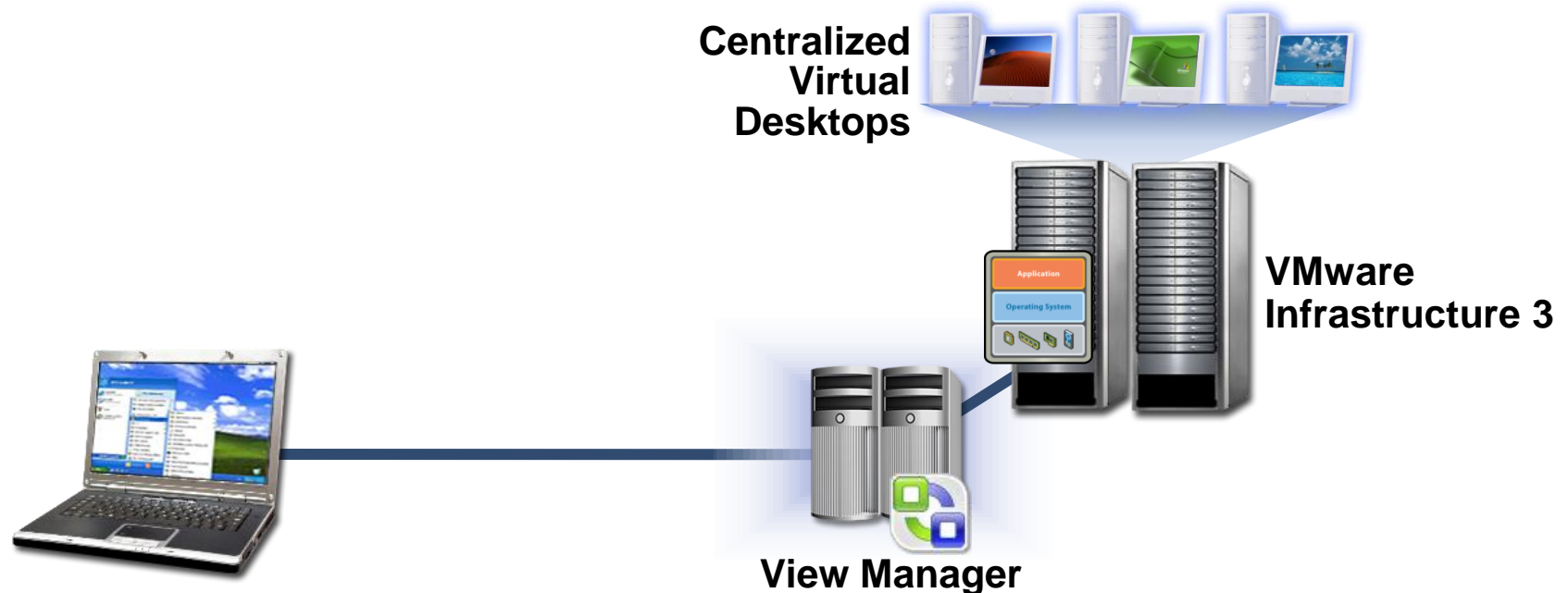
## Benefits

- > Reduces Storage Costs
- > Minimizes desktop images to be managed
- > Streamlines application patch updates
- > Allows multiple versions of applications to be used



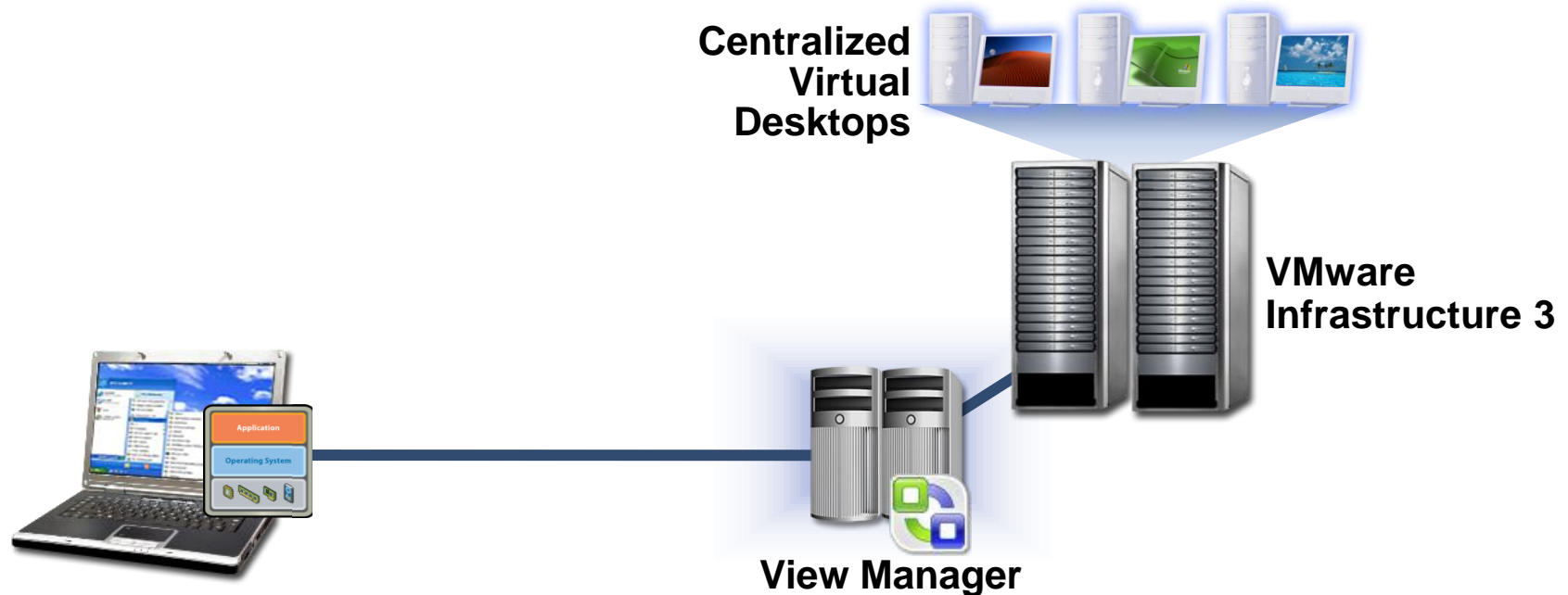
## Offline Desktop (Experimental): Anywhere Mobility

- > Enables end-users to check-out their hosted Virtual Machines to a local physical computer for a full user experience
- > Enables administrators to extend security and encryption policies of the centralized virtual desktops to the end-user's local computer



# Offline Desktop (Experimental): Anywhere Mobility

- > When checked out – the virtual machine has a “heartbeat” back to the datacenter allow administrators to deactivate if necessary
- > When the user checks-in, only the delta is checked in



# Accessing VMware View Desktops

## Native Windows Client

- > Provides extended capabilities to access local printers and storage
- > USB device support on Windows XP and Vista

## Browser Access

- > Windows, Linux and Mac

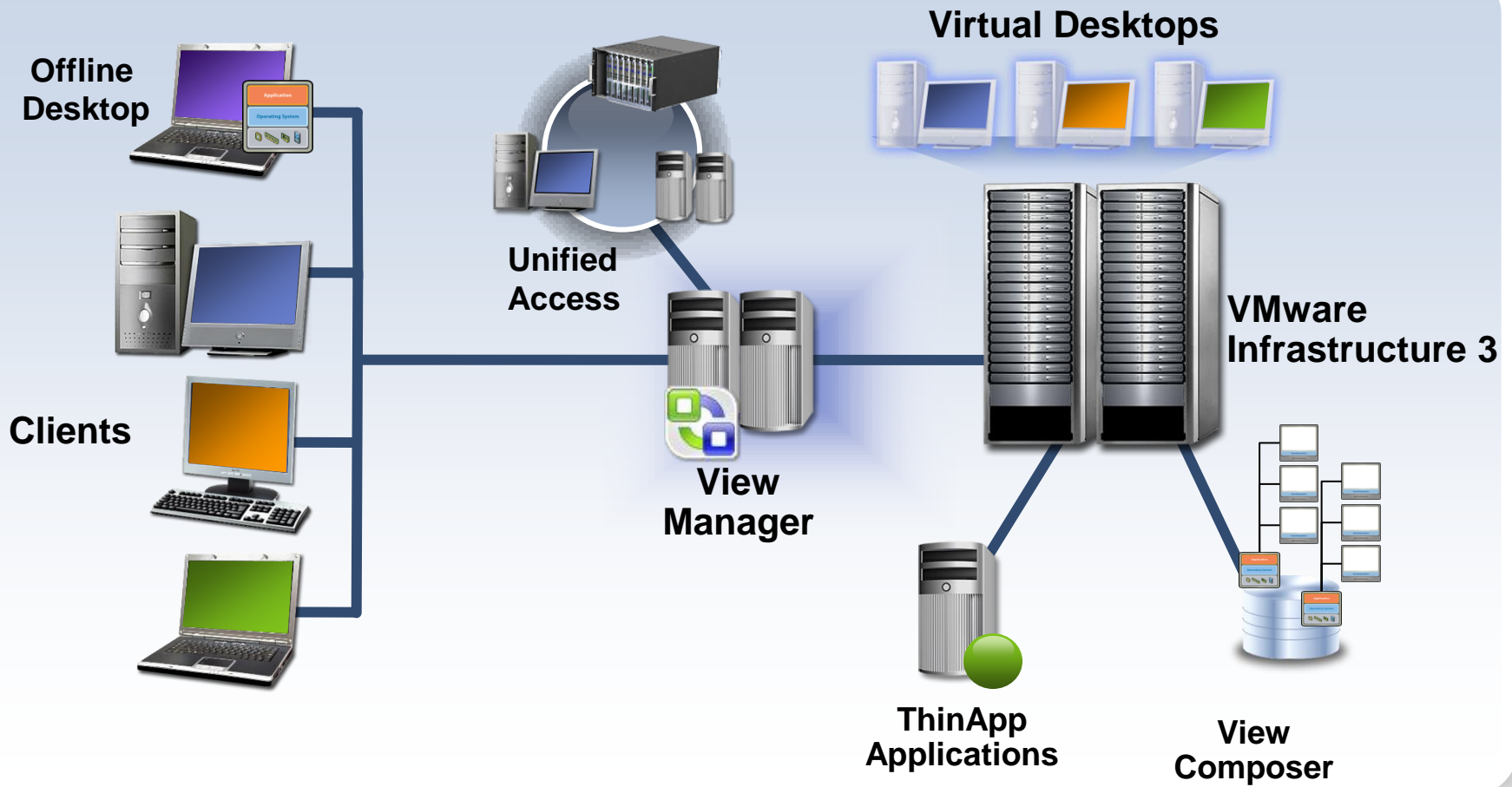
## Thin- Client Support

- > Broad industry support – over 45 devices
  - Linux, Win XPe, Win CE, and Proprietary
- > VMware Thin Client Compatibility List

<http://www.vmware.com/resources/techresources/1053>



# Summary Overview for View 3



# AGENDA

Enterprise Desktop Challenges

The VMware View 3 Solution

**Customer Deployments**

Next Steps

# Where Customers Use VMware View



## Desktop Replacement

Replace traditional PCs with centralized virtual desktops for better control and efficient management. End users have flexibility.



## Disaster Recovery and Business Continuity

Provide continuous availability of desktops by making high availability and disaster recovery solutions more cost-effective, simpler, and more reliable.



## Desktops as a Secure Service

Eliminate the need for moves, adds or changes. Allow third parties to access corporate applications in secure, controlled way.



## Focused Solutions

Offshore development: giving developers control while keeping IP in data center. Platform migration: providing access to, e.g. from Vista to XP and vice versa. Application compatibility resolution. Mergers and acquisitions.

# Next Steps VMware View

## **More Information on VMware View:**

<http://www.vmware.com/products/view/>

## **Download and Evaluate Solution:**

[www.vmware.com/download/view/](http://www.vmware.com/download/view/)

## **Use the VMware View TCO calculator:**

<http://www.vmware.com/products/vi/calculator.html>

**Take advantage of VMware View Service Offerings to accelerate your deployments**

# Questions and Answers

Thank You!

**Q and A?**