



Privileged User Access and Management

EPUAS/VDI PMO

DISA

2017 June



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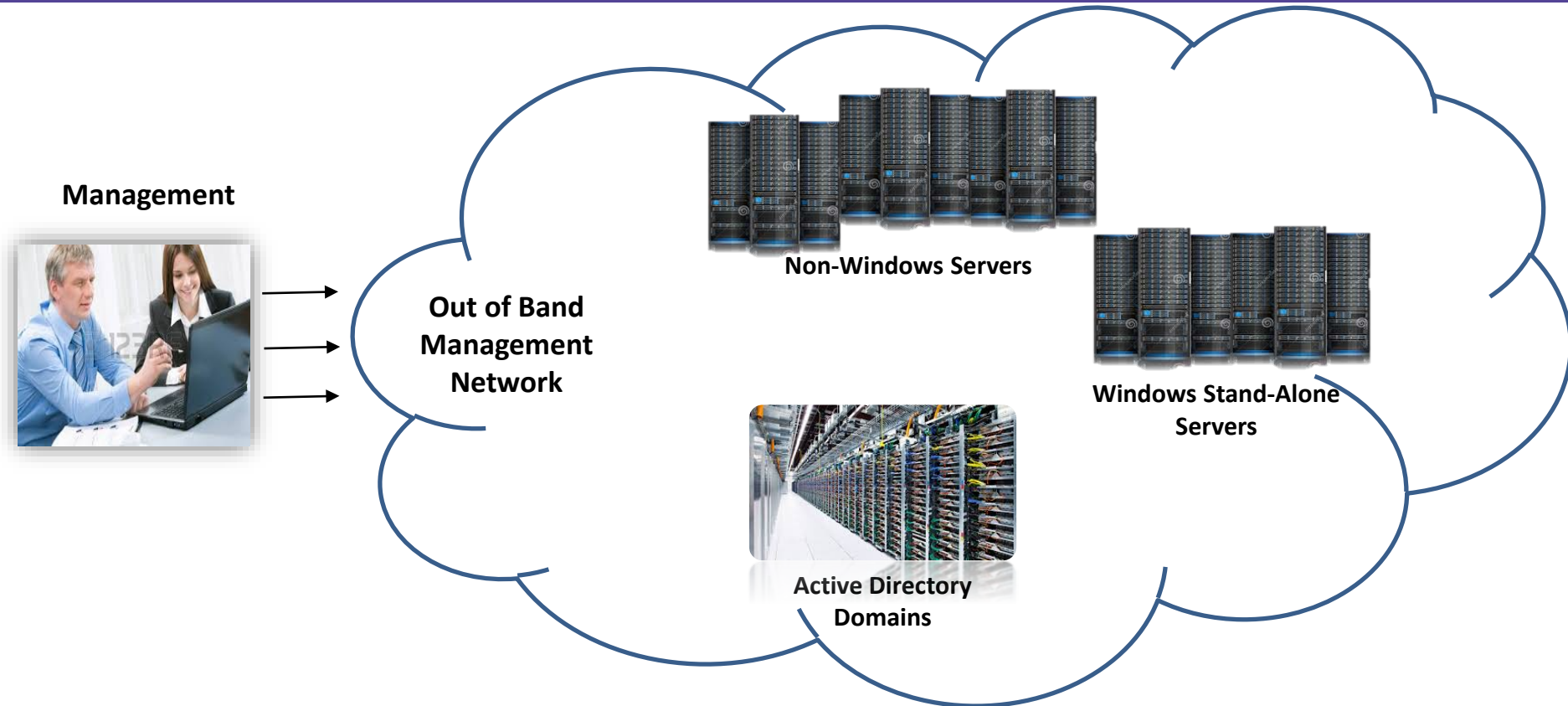


Agenda

- **Overview**
 - **Access Management**
 - **File Transfer**
 - **Strong Authentication**
- **Questions/Comments**



Access Management





Access Management Methods

Dedicated Desktop



VPN



Mobile Device



VPN



Virtual Desktop



Non-Windows Servers

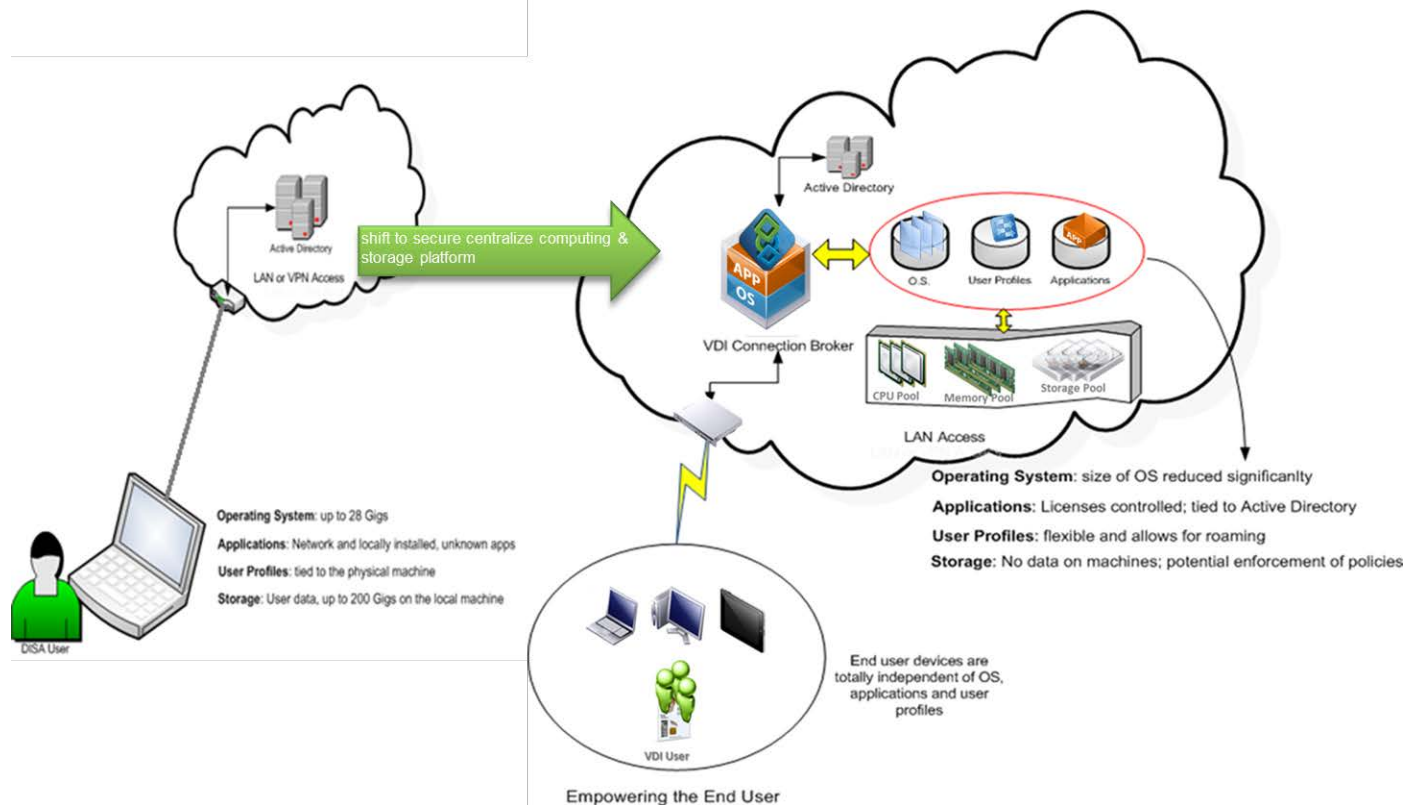


Windows Stand-Alone Servers



Active Directory Domains

Physical to Virtual Evolution





Desktop vs. VDI

UNCLASSIFIED

Attributes	Desktop	VDI
<i>Security</i>	Data is located disparately, on individual machines	Data is centralized within secured data centers
	Multiple security baselines, upgrades require users to be online	Single security baseline, changes take affect immediately
<i>End User Experience</i>	Provisioning takes days/weeks	Provisioning takes less than 24 hours
	Machine downtime, decreased productivity	Less Downtime; Improved Productivity
<i>Operational Management</i>	OS/Apps/Patch Management resource and labor intensive	OS/Apps/Patch Management performed at the data center, reduced labor/resources
	Less optimized capability to roll back updates	Rapid Roll back of updates
	Help Desk Call volume impacted	Fewer help desk tickets due to less configuration challenges
	Patching is complex, can take weeks to complete	Patching performed instantly across all desktops
<i>Data Recovery</i>	Stored on local Hard Drive, unrecoverable if lost or stolen	Data resides within data center
<i>Flexibility</i>	Access to data limited to device	Access data from any device



The Benefits of VDI

For Mission Partner

- Centralized management of desktops and applications.
- Rapid delivery of technology and capability enhancements and upgrades.
- Lower service support cost (Tier-2)
- Reduces cost of end point devices

Security

- Centralized management of desktops and applications.
- Improved security of the network.
- Data is centralized within secured data centers
- Creates an effective Data Recovery/COOP capability



End User Experience

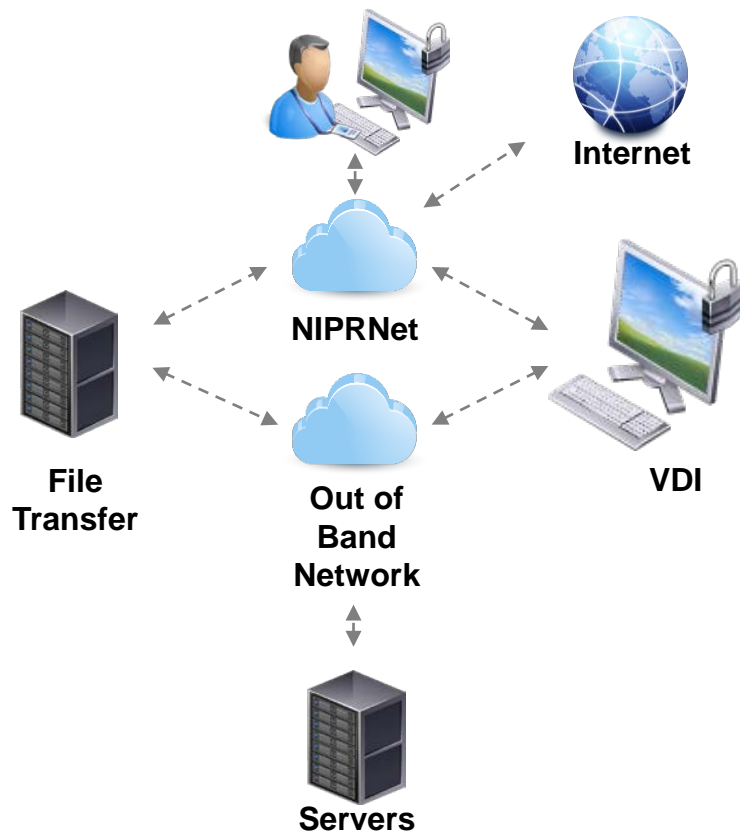
- End users can access their workspace from multiple devices and move from one device to the next.
- End user data is backed up and follows the user wherever the user accesses the desktop.
- New services are rapidly provisioned, cutting down on wait times for requested capabilities.

Operational Management

- Patching performed instantly across all desktops
- OS/Apps/Patch Management performed at the data center, reduced labor/resources



Securing the Network

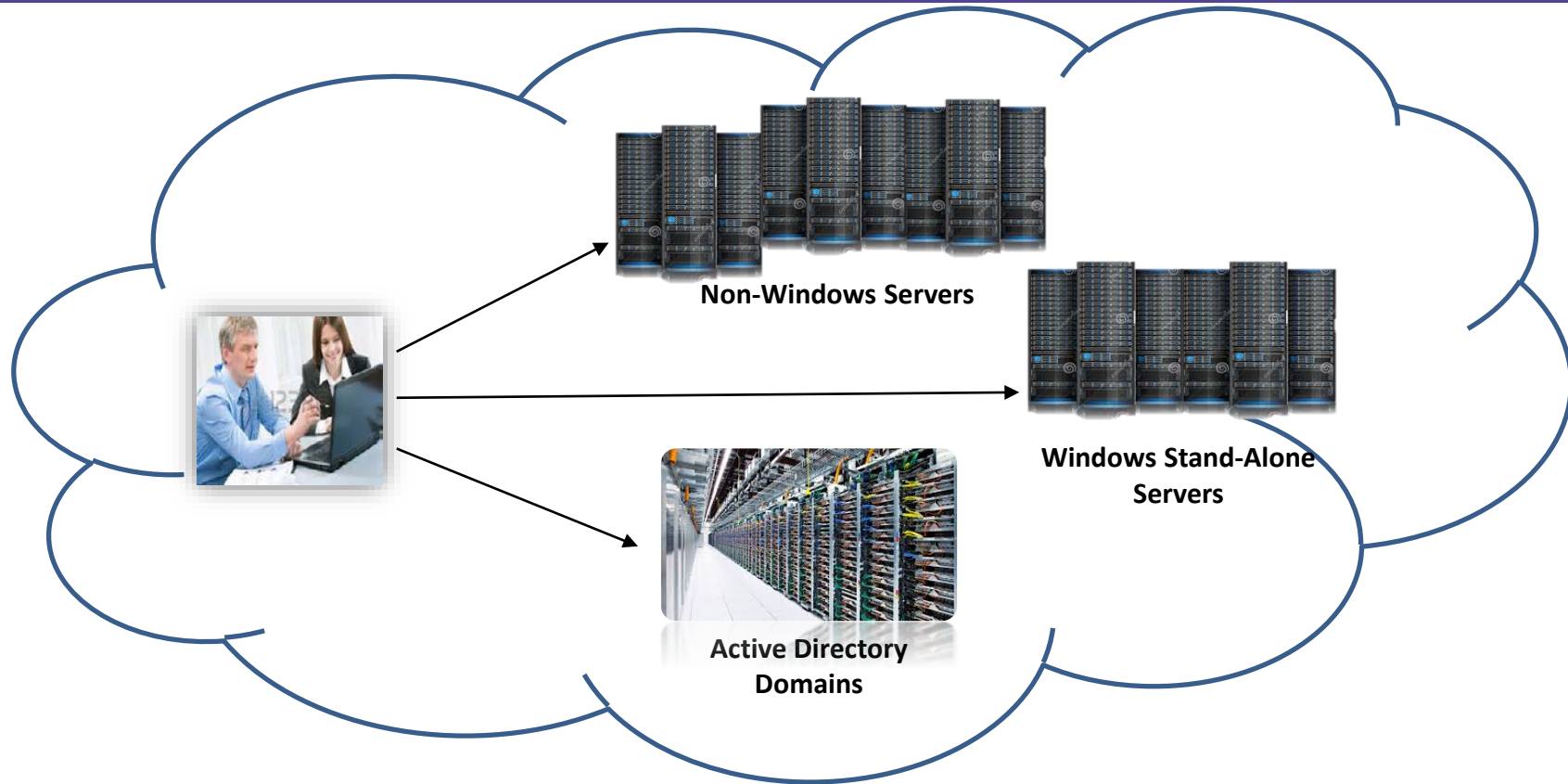


Virtual Desktop Infrastructure (VDI)

- Centralized management of desktops and applications
- Improved security of the network
- Data is centralized within secured data centers
- Creates an effective Data Recovery/COOP capability



Server Authentication

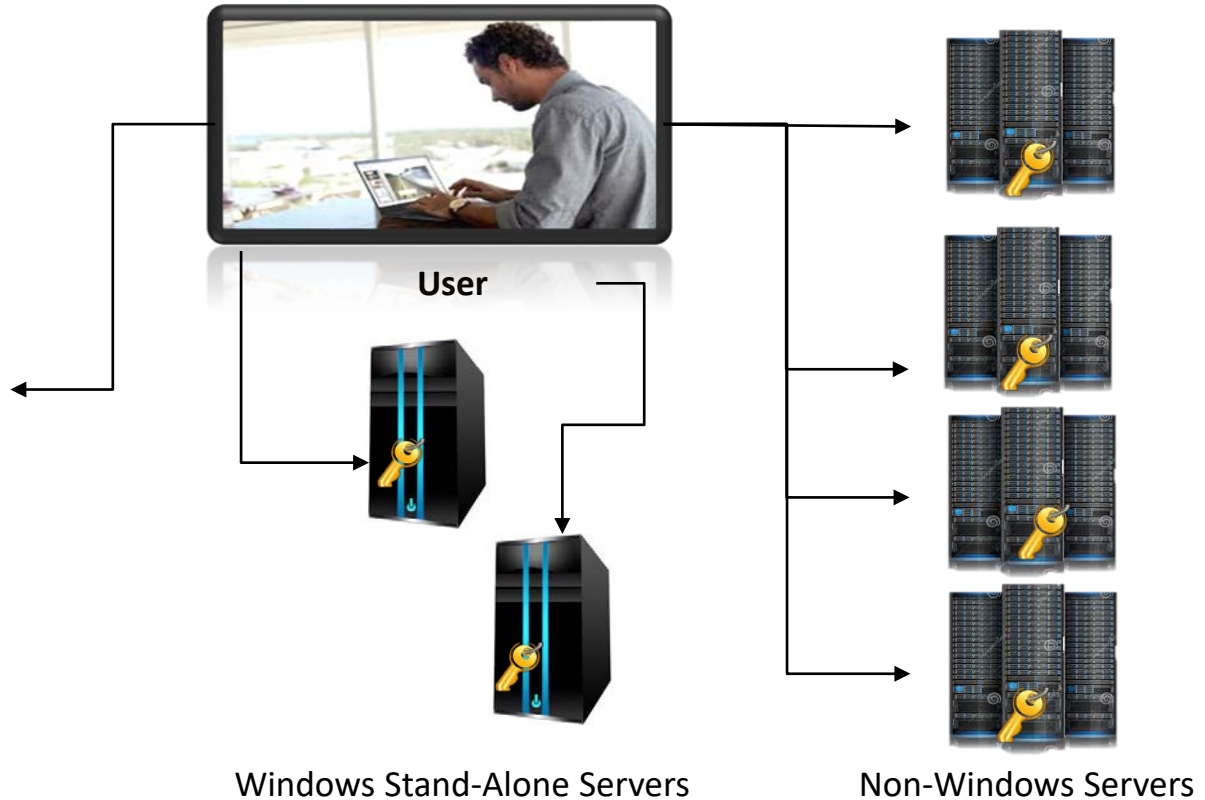




De-centralized Account Management



Windows Domains

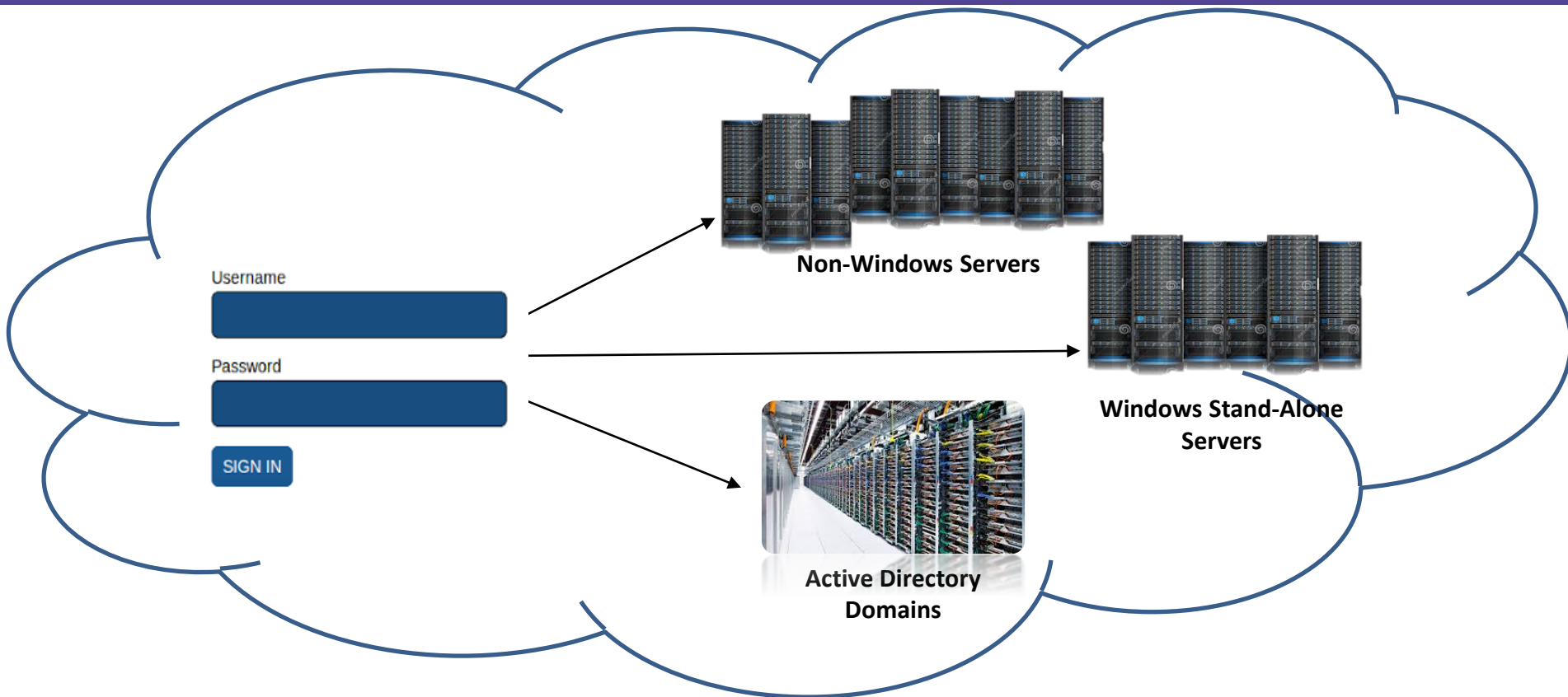


Windows Stand-Alone Servers

Non-Windows Servers



Username / Password Authentication





Two Factor Authentication



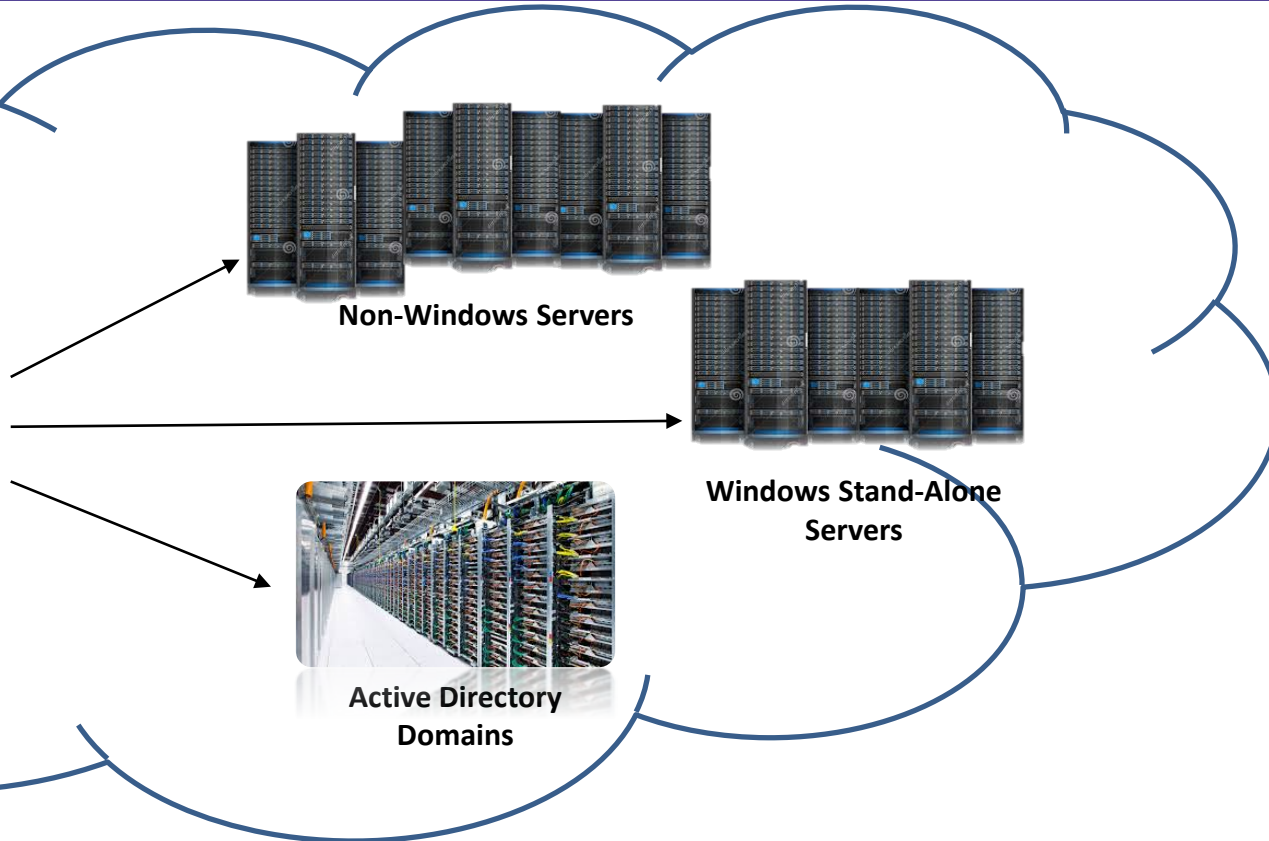
Non-Windows Servers



**Windows Stand-Alone
Servers**



**Active Directory
Domains**





Tiered Separation

The diagram illustrates a three-tier architecture for separation. It consists of three cloud-shaped boxes arranged in a descending staircase pattern from top-left to bottom-right. The top cloud is labeled "Users", the middle cloud is labeled "VDI Solution", and the bottom cloud is labeled "Server Resources".

Users

VDI Solution

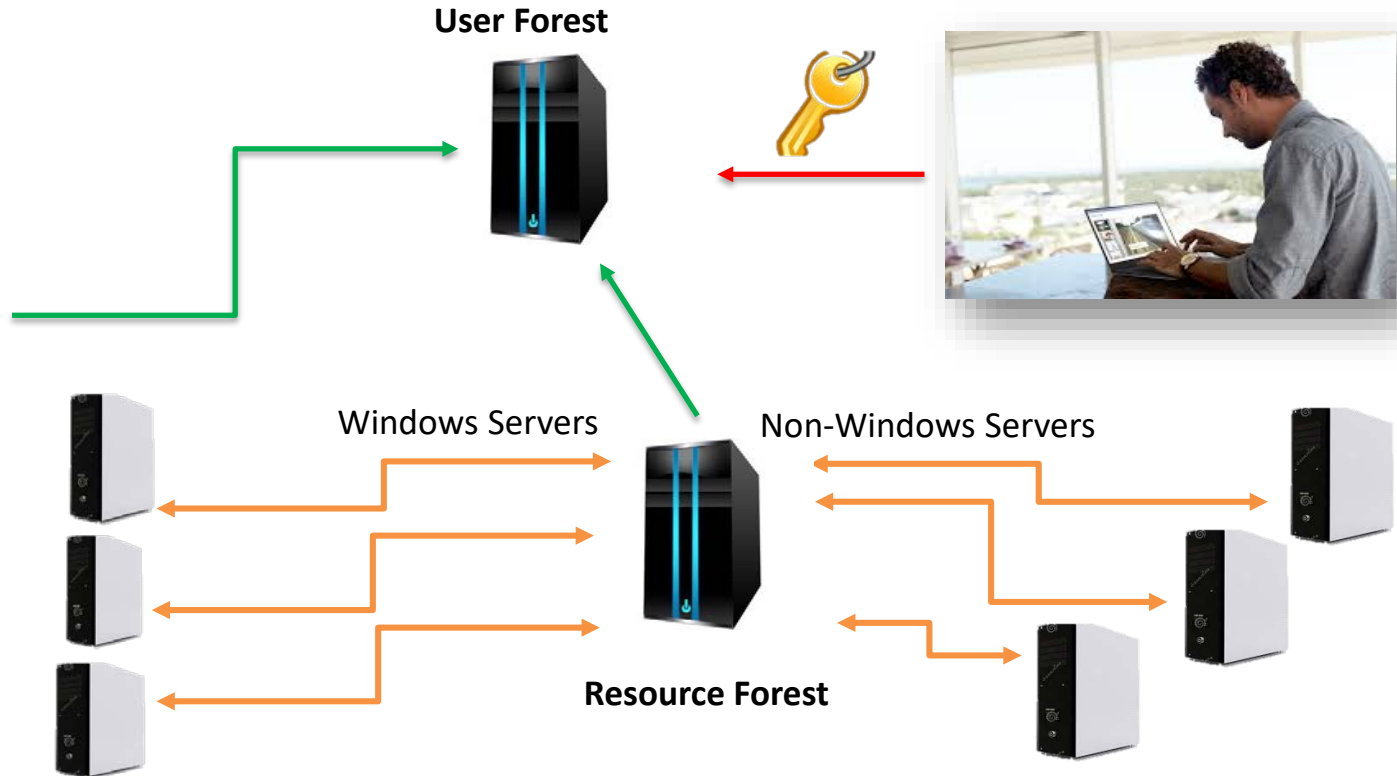
Server Resources



Centralized Account Management

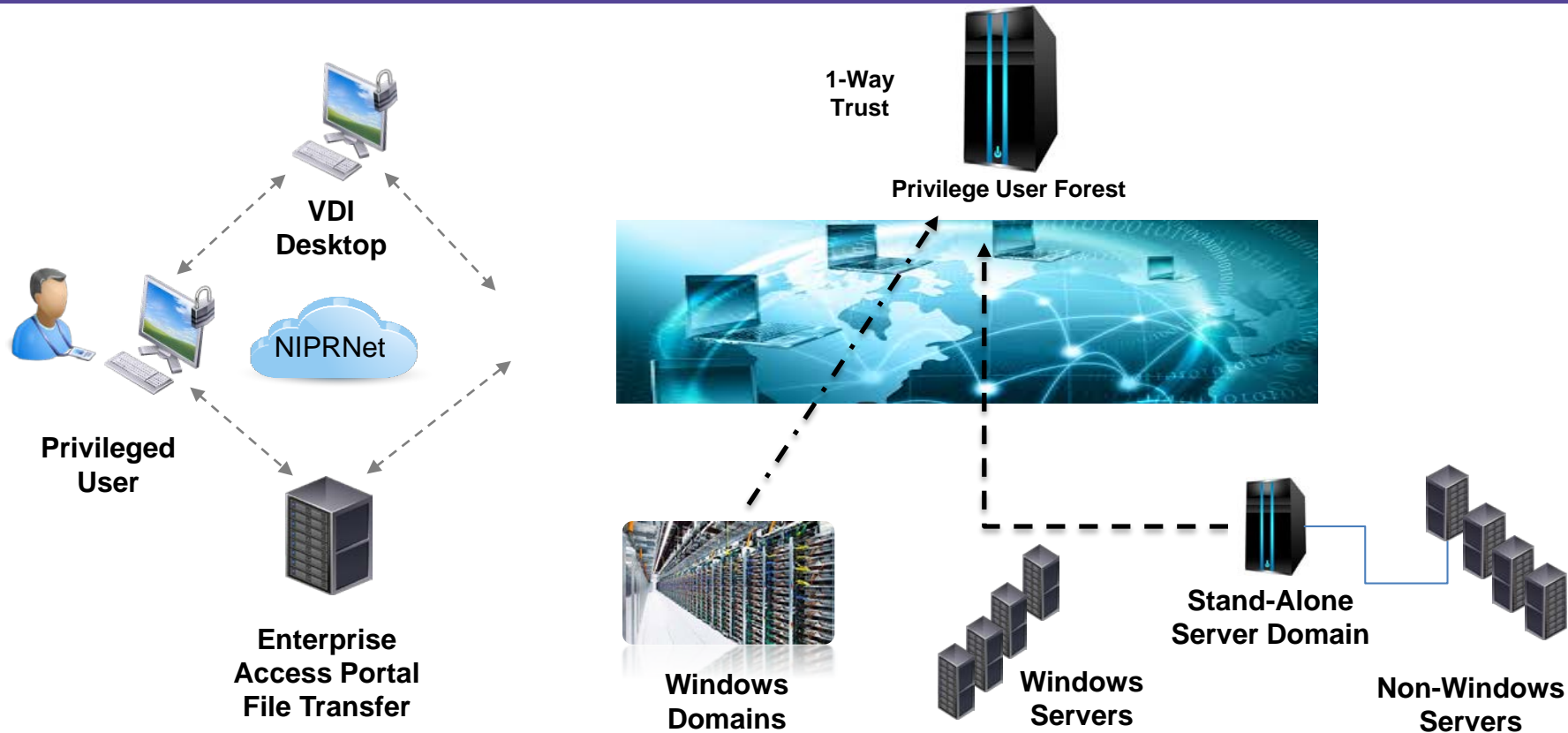


Windows Domains





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