Microsoft

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A Reference Architecture for Windows Virtual Desktop Printing

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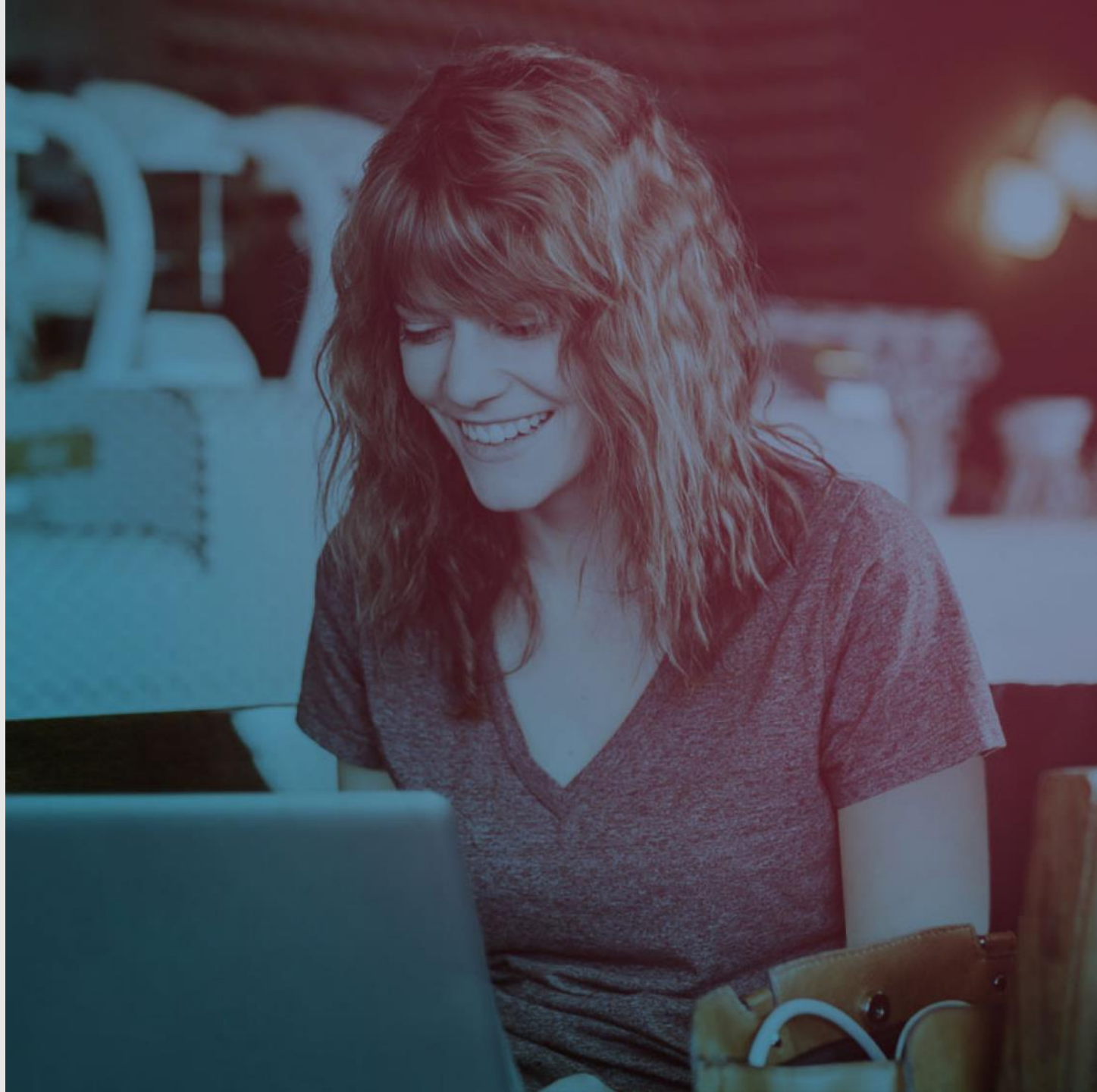
Senior Vice President
Cloud Services

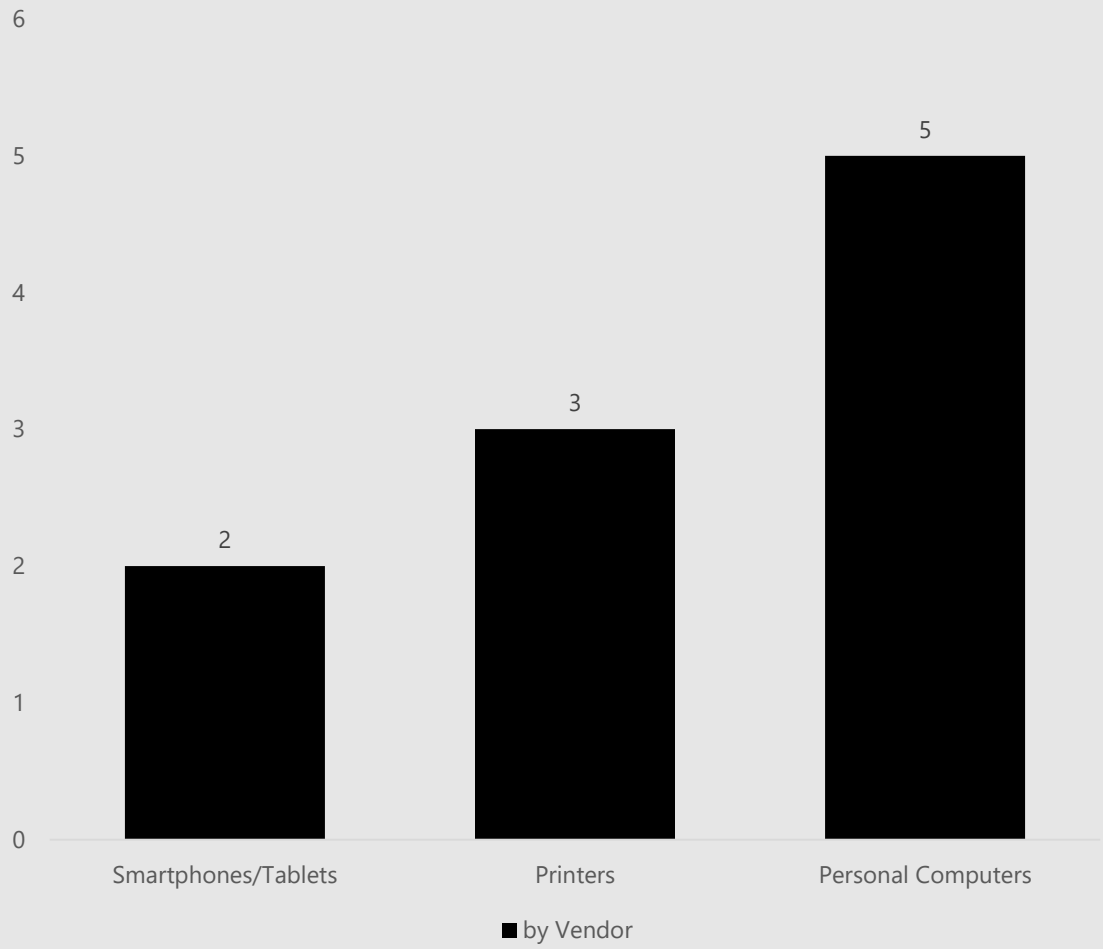
ezeep by ThinPrint

THR3160



Supporting the 75%

How many Vendors do I need to support?



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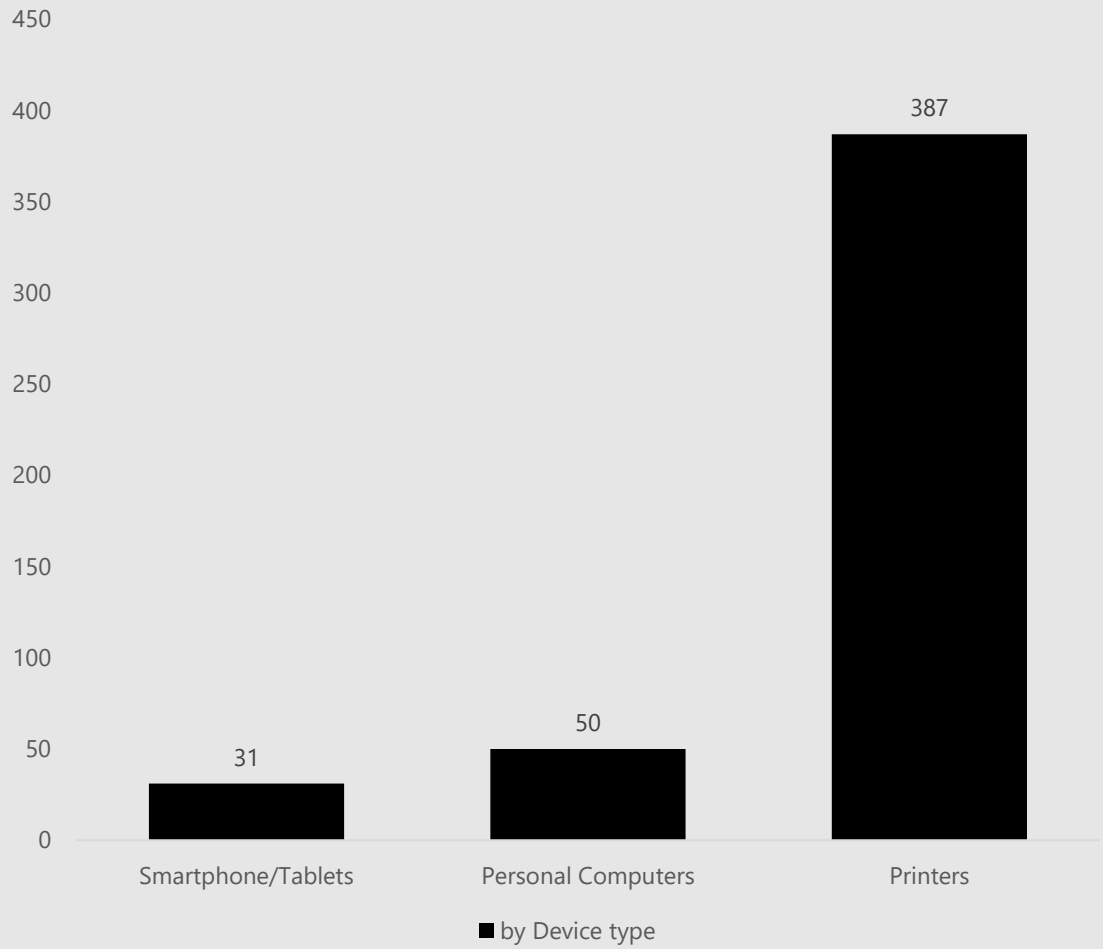
Supporting the 75%

How many Devices* do I need to support?



*Devices that are currently on sale

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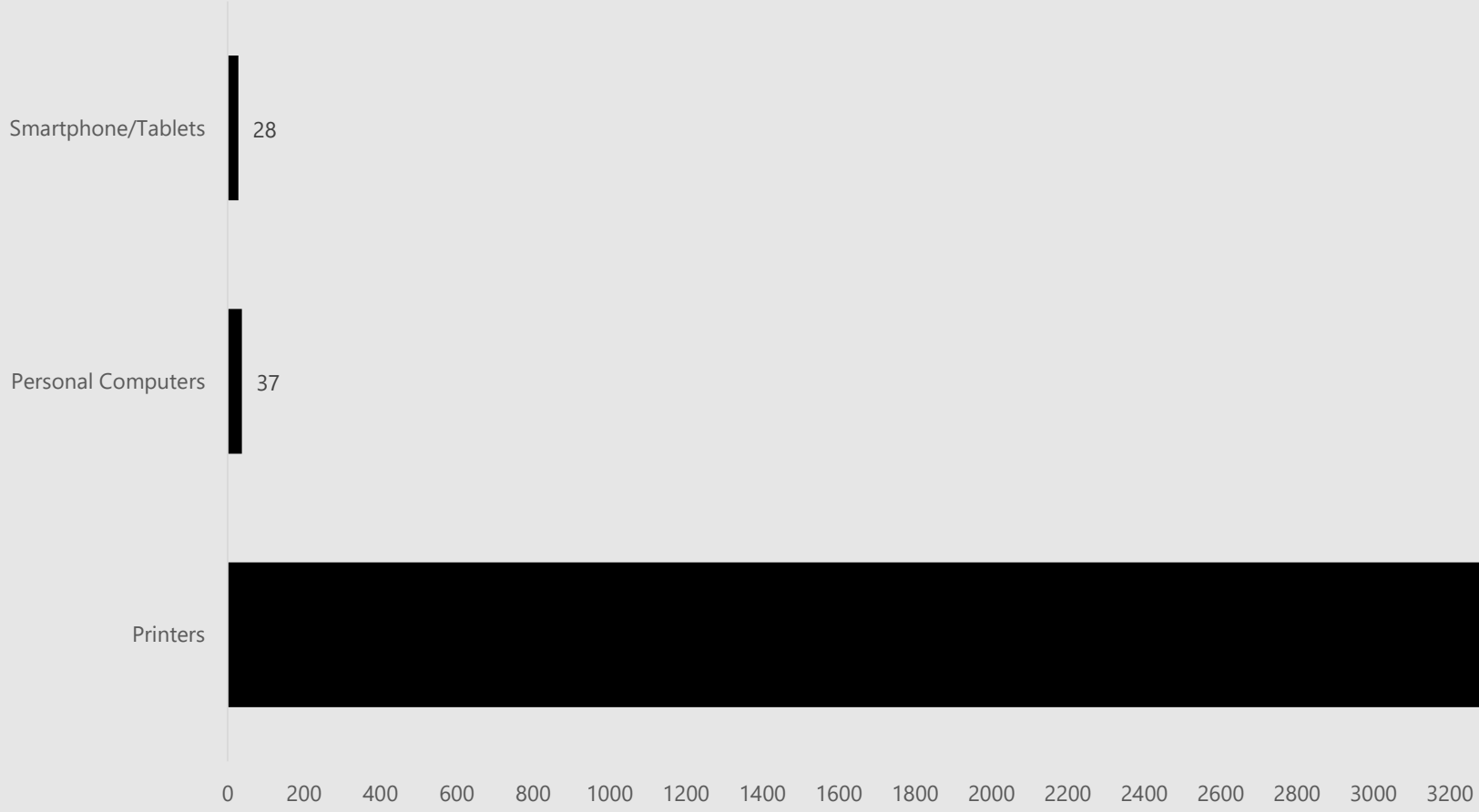
Supporting 100%

How much software do I need to support?



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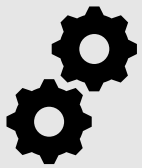
Let’s focus on the Now

Worldwide 650 million printers are in use

Over 50 vendors

Around 90 million printers sold in 2018



3-5 printer drivers for a new printer

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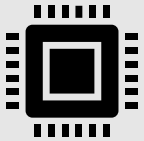
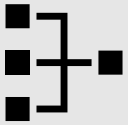
Printer problems won’t go away

Printer drivers

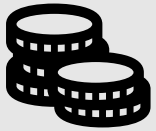


Endpoint configuration

Network Design considerations



Access Control



Cost control

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Windows Virtual Desktop brings new challenges

Another Layer of configuration

- Printer assignment
- Printer Drivers (again)
- Client devices and protocol capabilities

Communication on a global scale

- Print job size
- Network Bandwidth
- Latency
- Bi-directional communication
- Print protocol
- Accessibility

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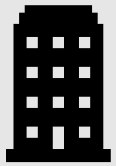
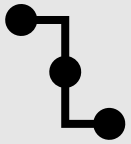
Ideal Architecture

Addresses local printing **and** WVD printing challenges



Designed for locations not devices



Independent from RDP printer redirection and VPNs

Supports existing printers

Requires no changes by users

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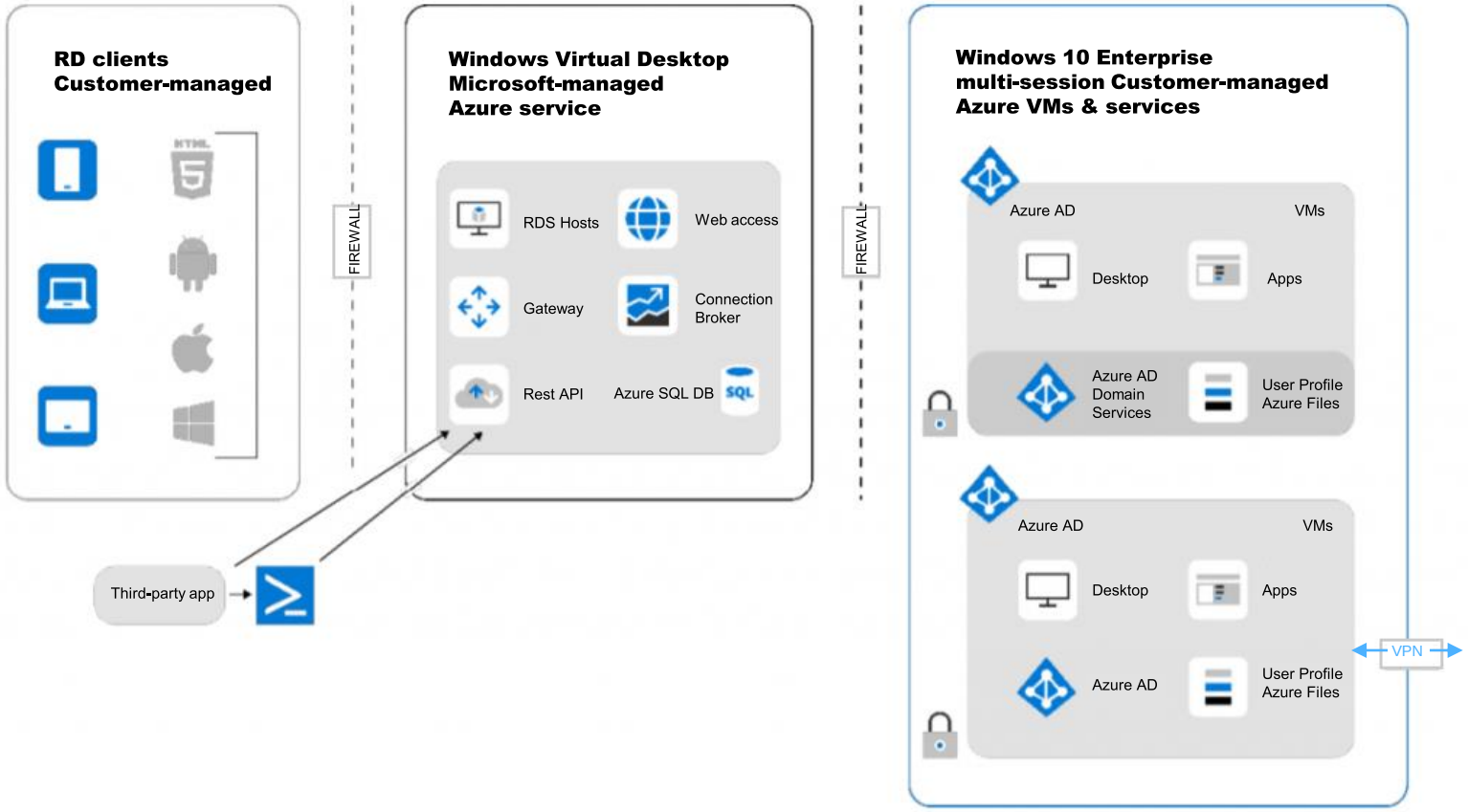
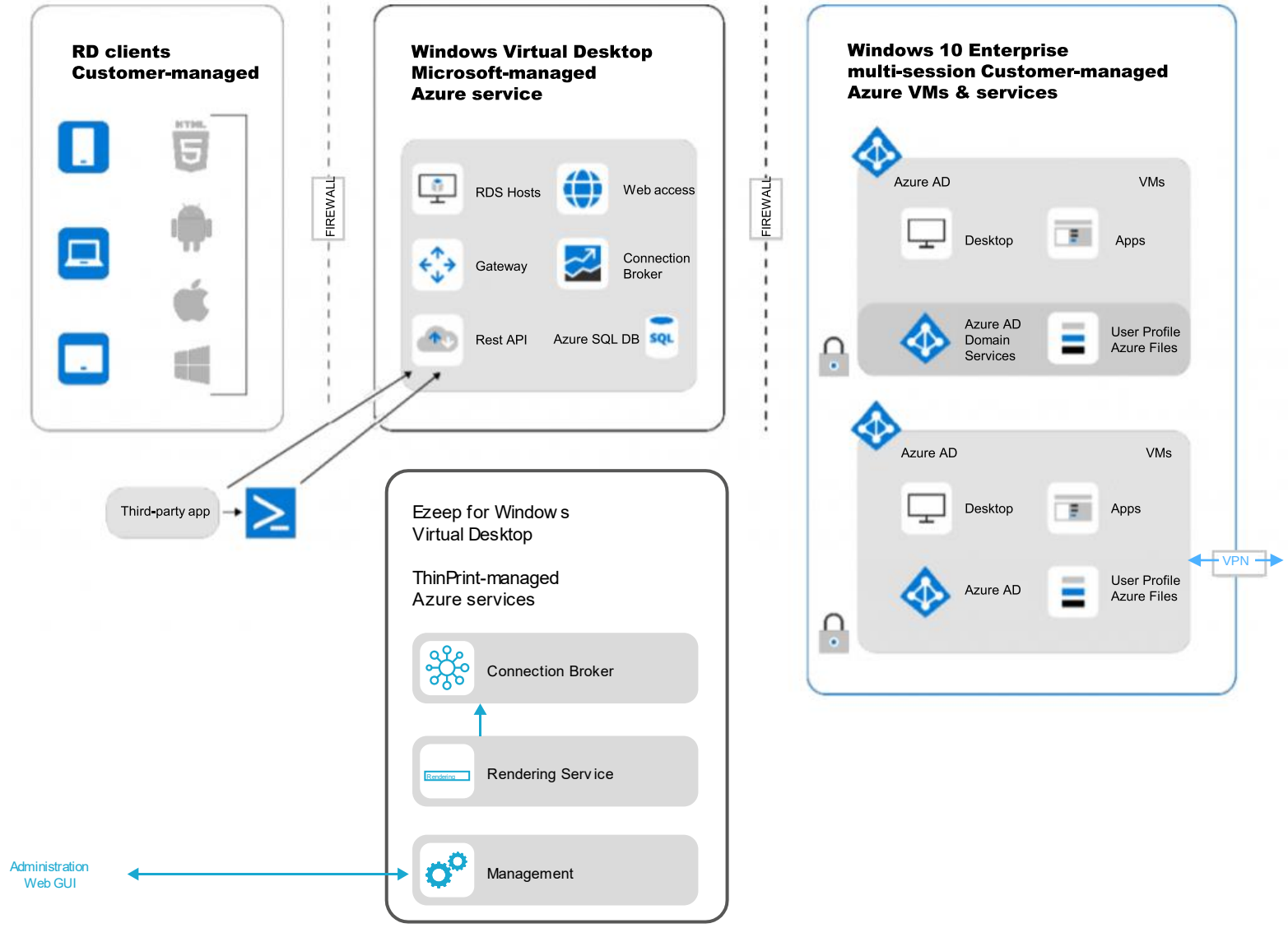
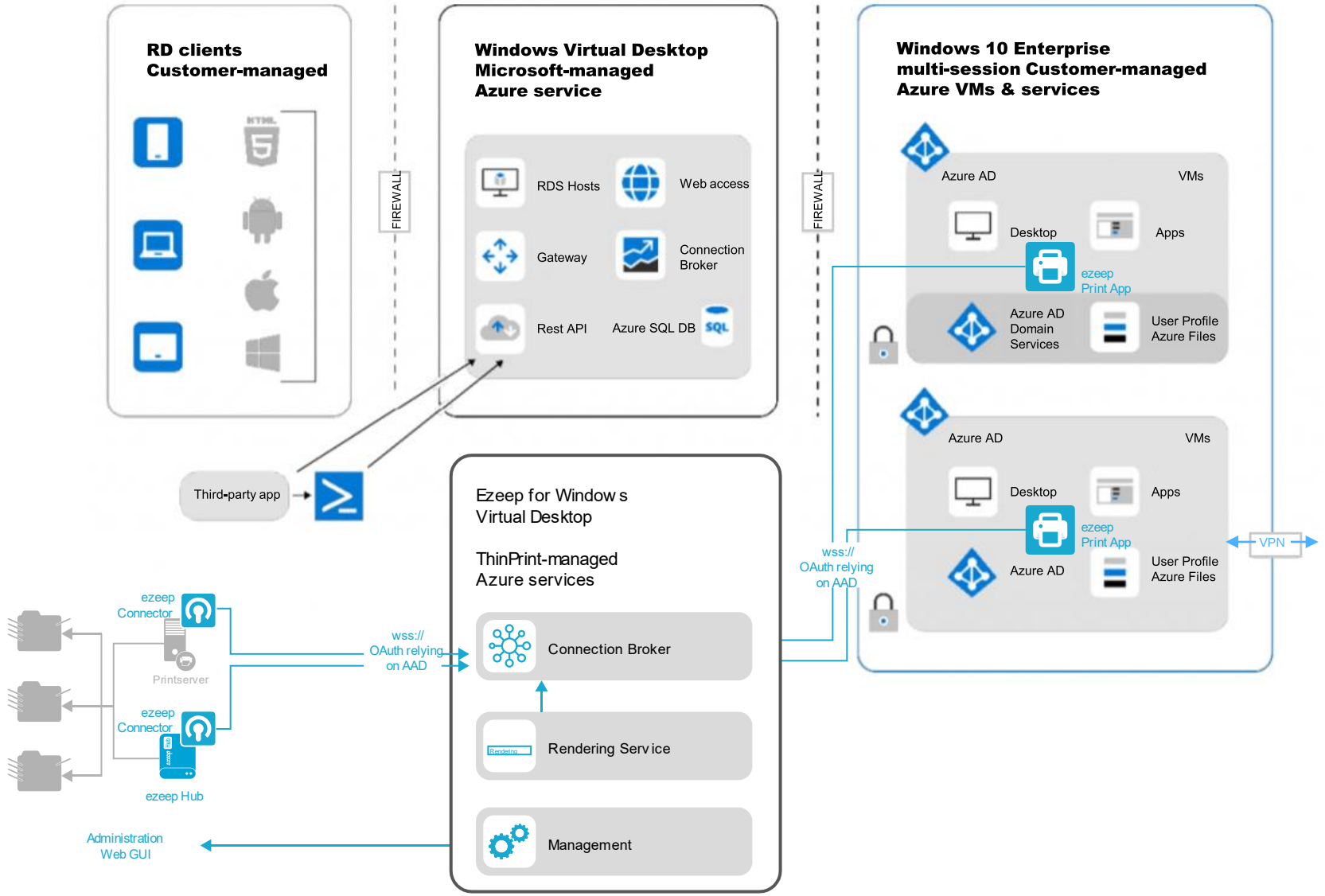
Printing as Service for Windows Virtual Desktop



Printing as Service for Windows Virtual Desktop



Printing as Service for Windows Virtual Desktop



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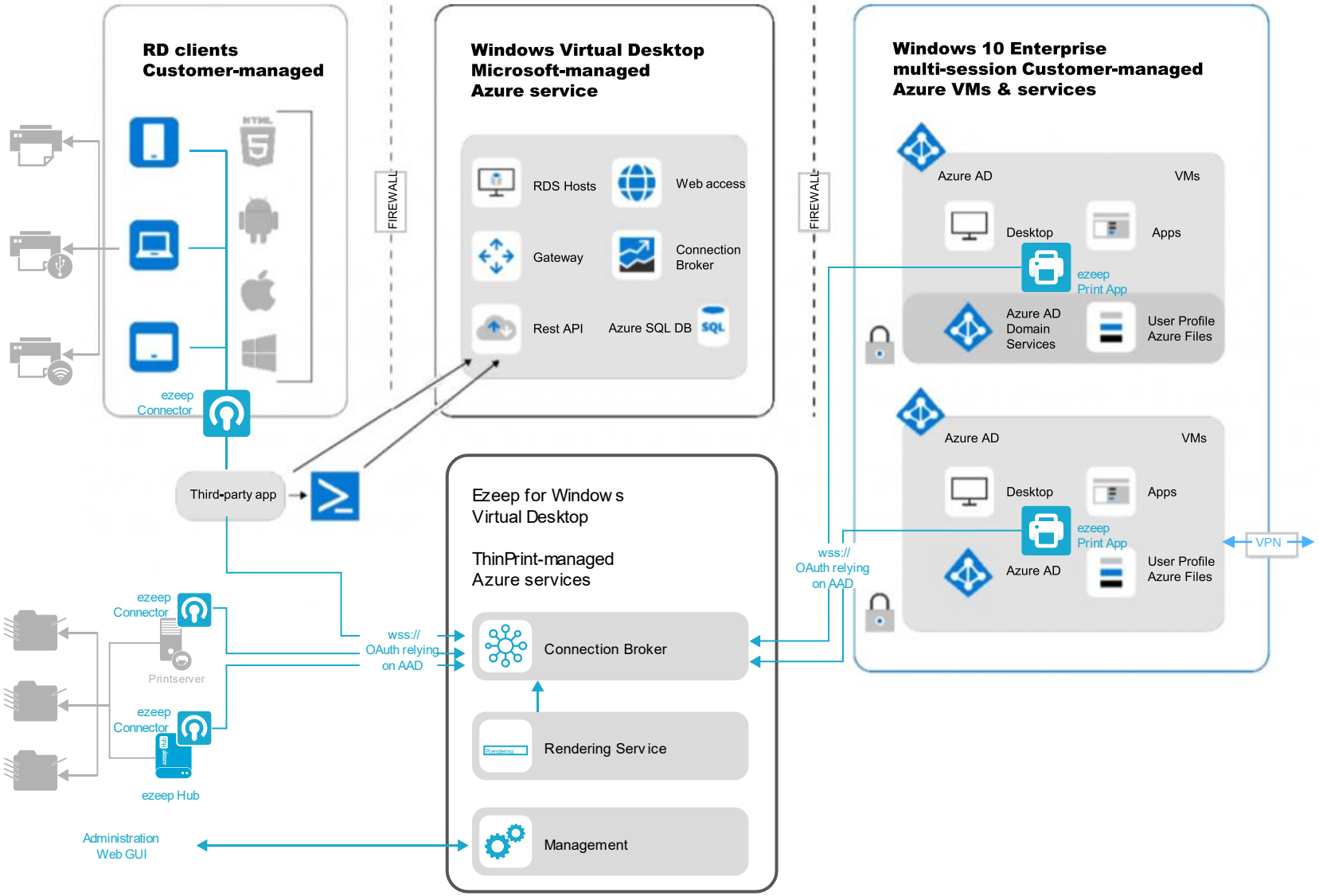
Printing as Service for Windows Virtual Desktop



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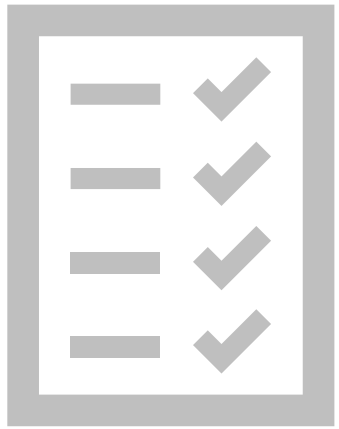
Developer Access to ezeep Cloud Printing

Print API

Connector API



Management API

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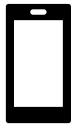
Platform for more

Printing from Office365 apps



Mobile printing for iOS and Android

Print activity reporting

Secure/follow me printing

Print policies

Best Practices

Recommendation	Reason	ezeep
Design for locations, not users' devices	Simplicity, support for all devices	ezeep Hub or software for print server Cloud-hosted connection broker
Limit printer drivers	Reduce overhead, avoid conflicts, improve stability	Cloud Rendering
Don't make VPNs a requirement	Flexibility, Costs, accommodate smaller, dynamic workstyles	Encrypted dedicated tunnel for printing, secured with TLS
No block-processing	Speed, each step starts before the previous one is done	Print streaming within Windows print subsystem and compression
No islands	Interoperability, systems need to exchange information for maximum overall benefits	Developer program, open APIs

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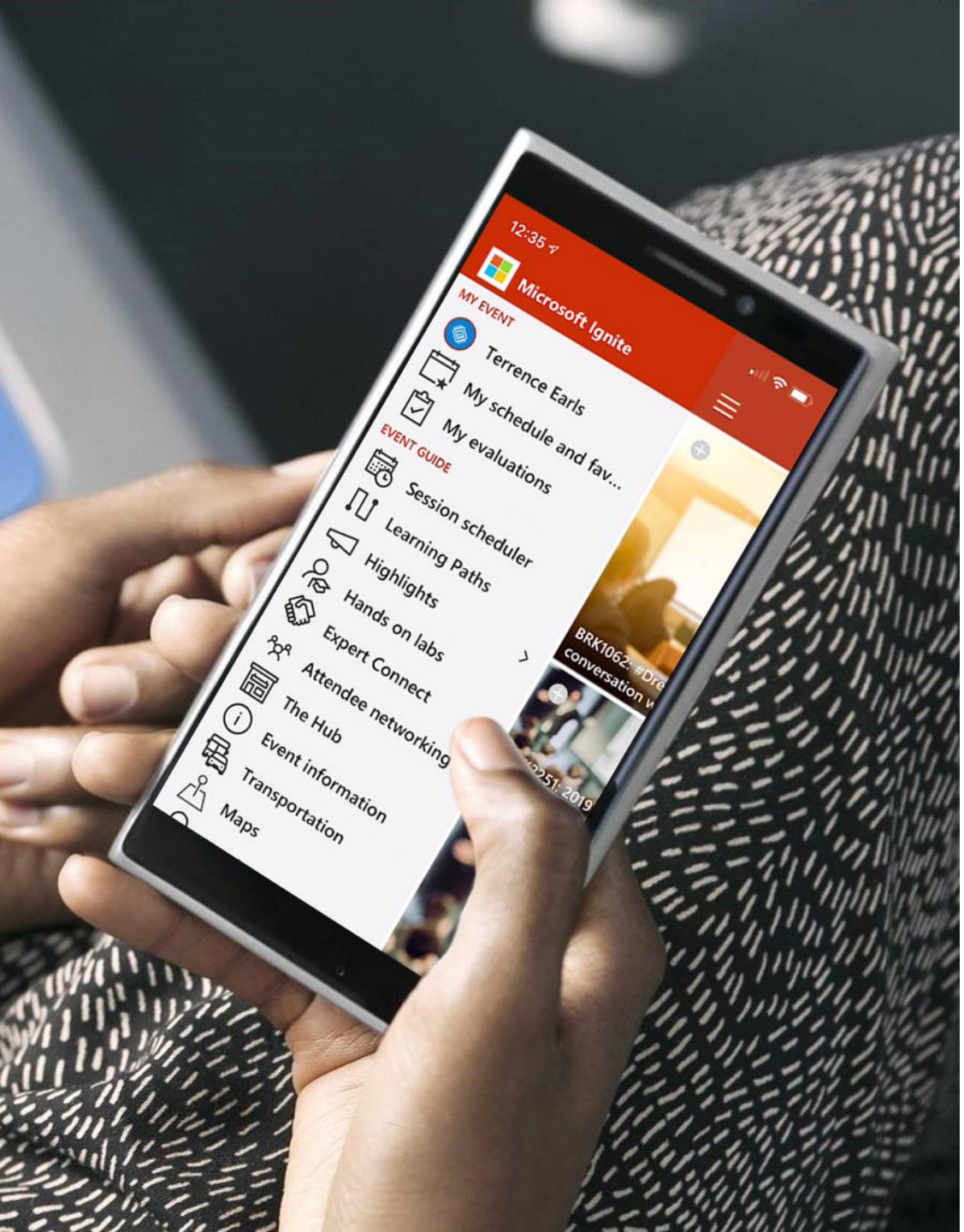

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