



Freek Berson

@fberson

**RDS ON AZURE OR RDMI,
HERE'S WHAT YOU NEED TO KNOW!**



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**RDS ON AZURE OR ~~RDMI~~ WVD,
HERE'S WHAT YOU NEED TO KNOW!**

Stroopwafel (Sirup Waffel)

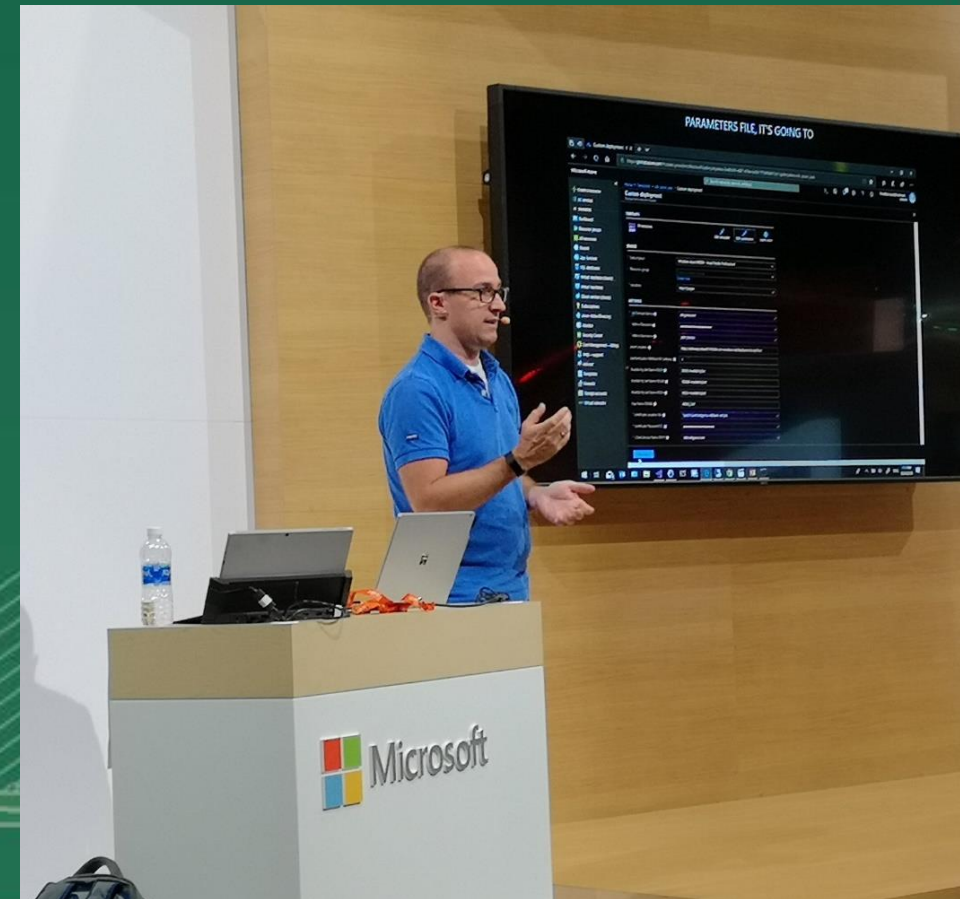
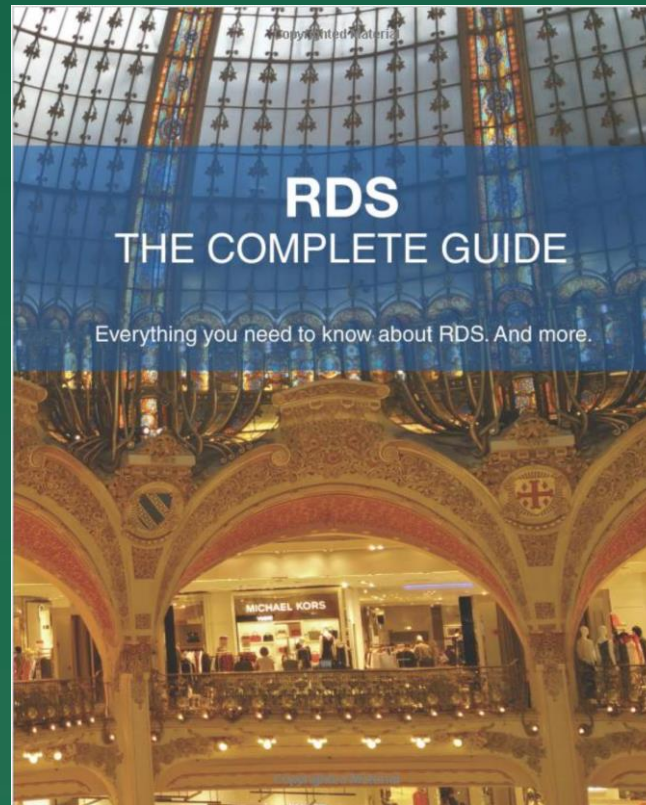


Question?

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The modern workplace

“RDS to complete the modern workplace by providing access to traditional Win32 applications”



Selecting your ideal platform

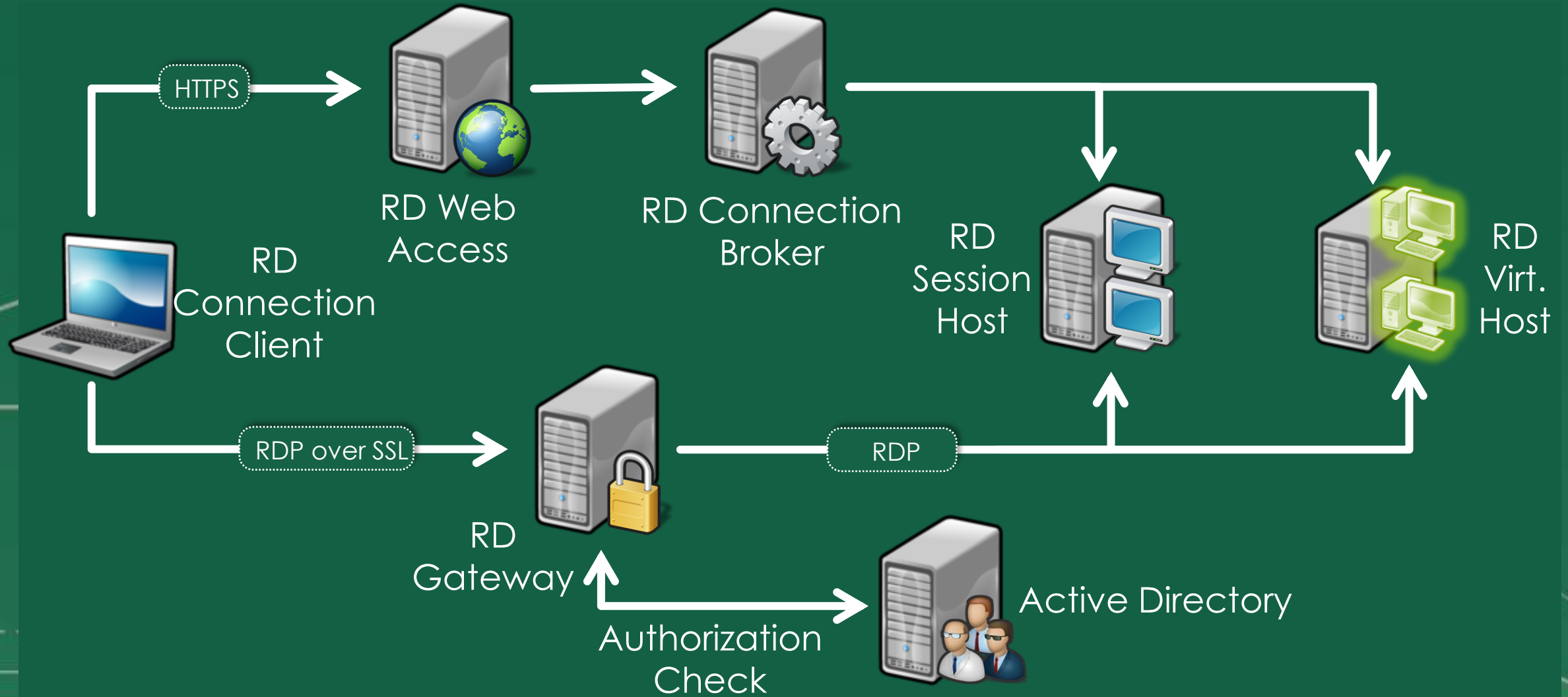
RDS on Azure IaaS:

- Full end-to-end control
- Private, isolated environment
- Extend current deployments

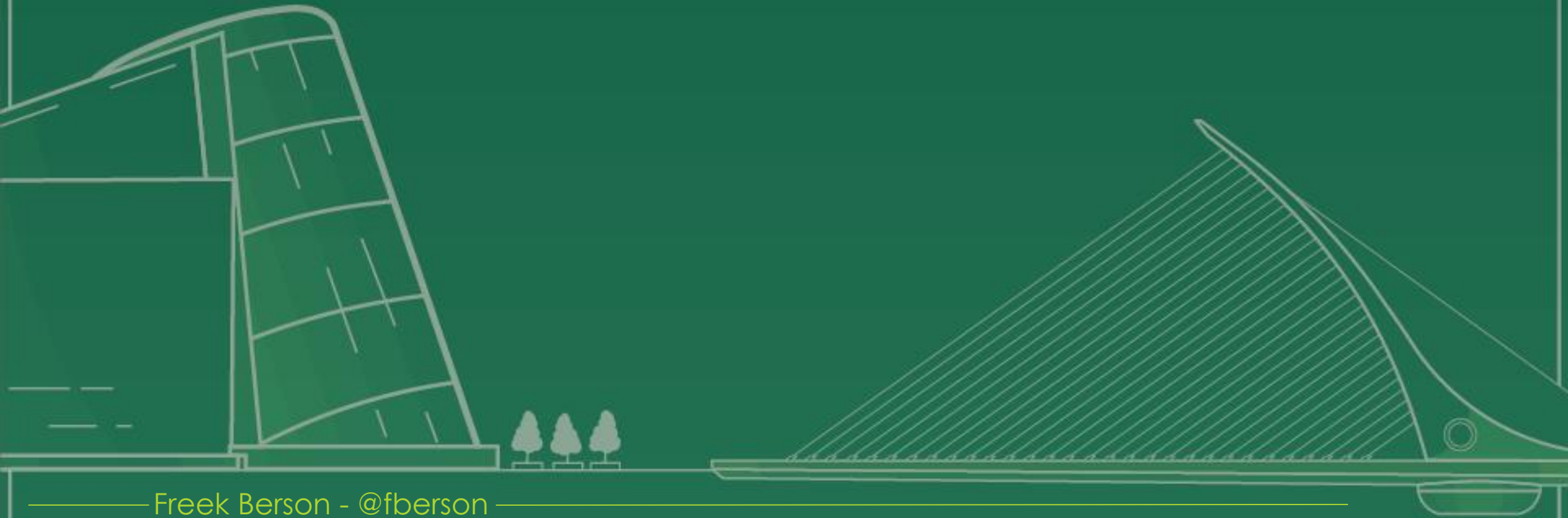
Windows Virtual Desktop:

- Microsoft to manage RDS Infra components as a service
- Windows 10 Enterprise multi-session capabilities
- Azure AD out of the box

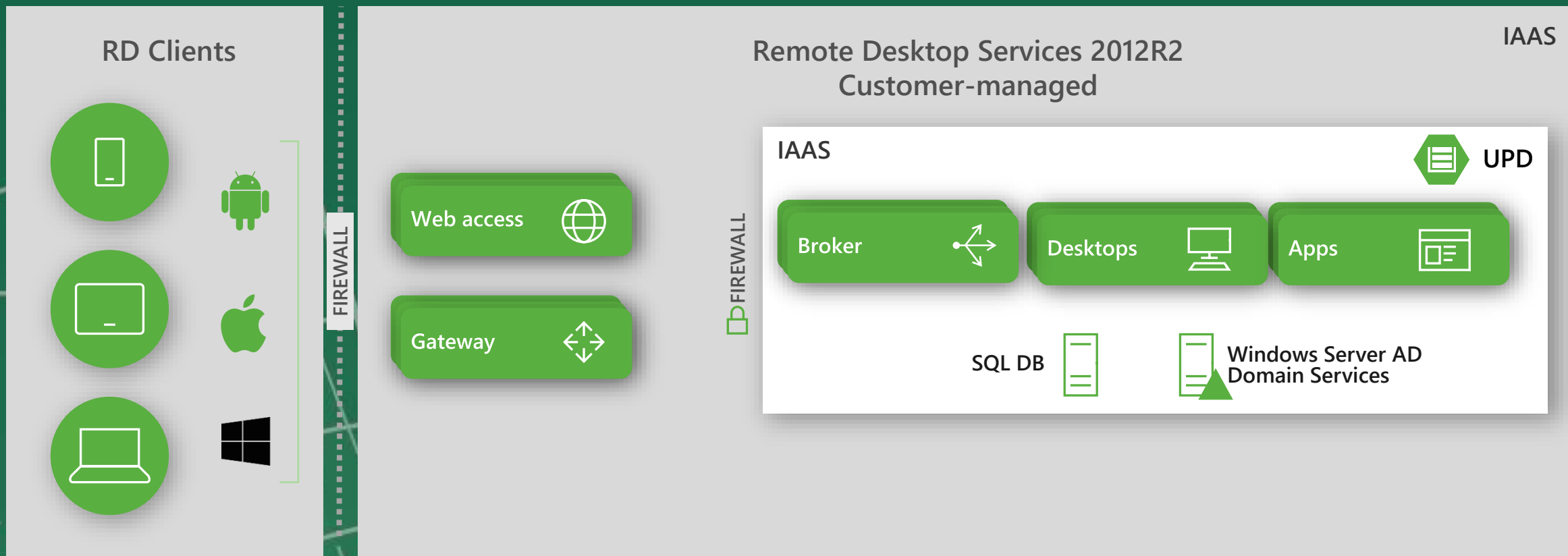
RDS Roles explained



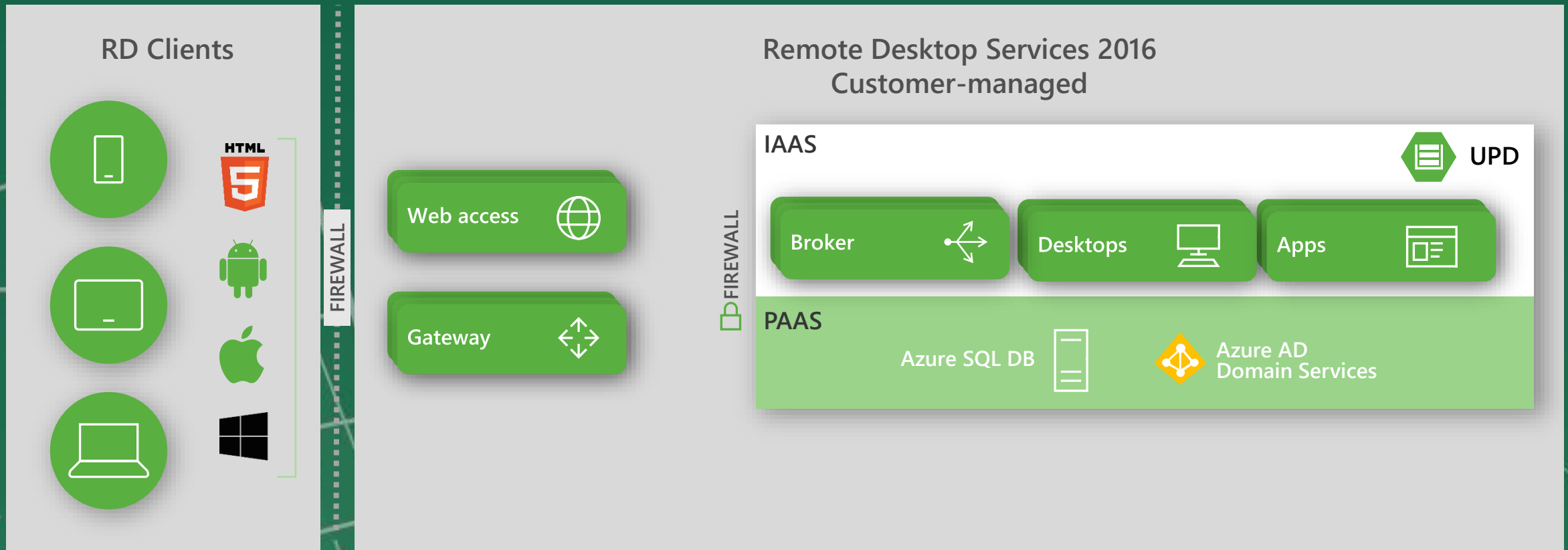
Part I – RDS on Azure IaaS



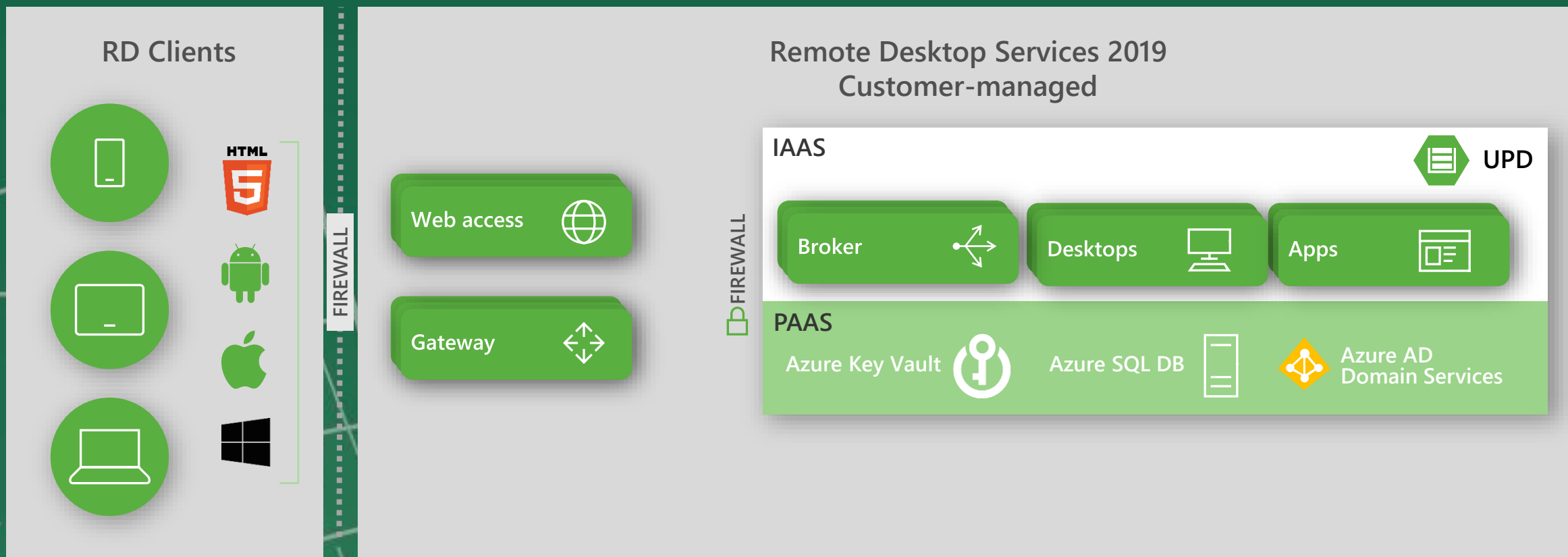
RDS on Azure IaaS 2012 R2



RDS on Azure IaaS 2016



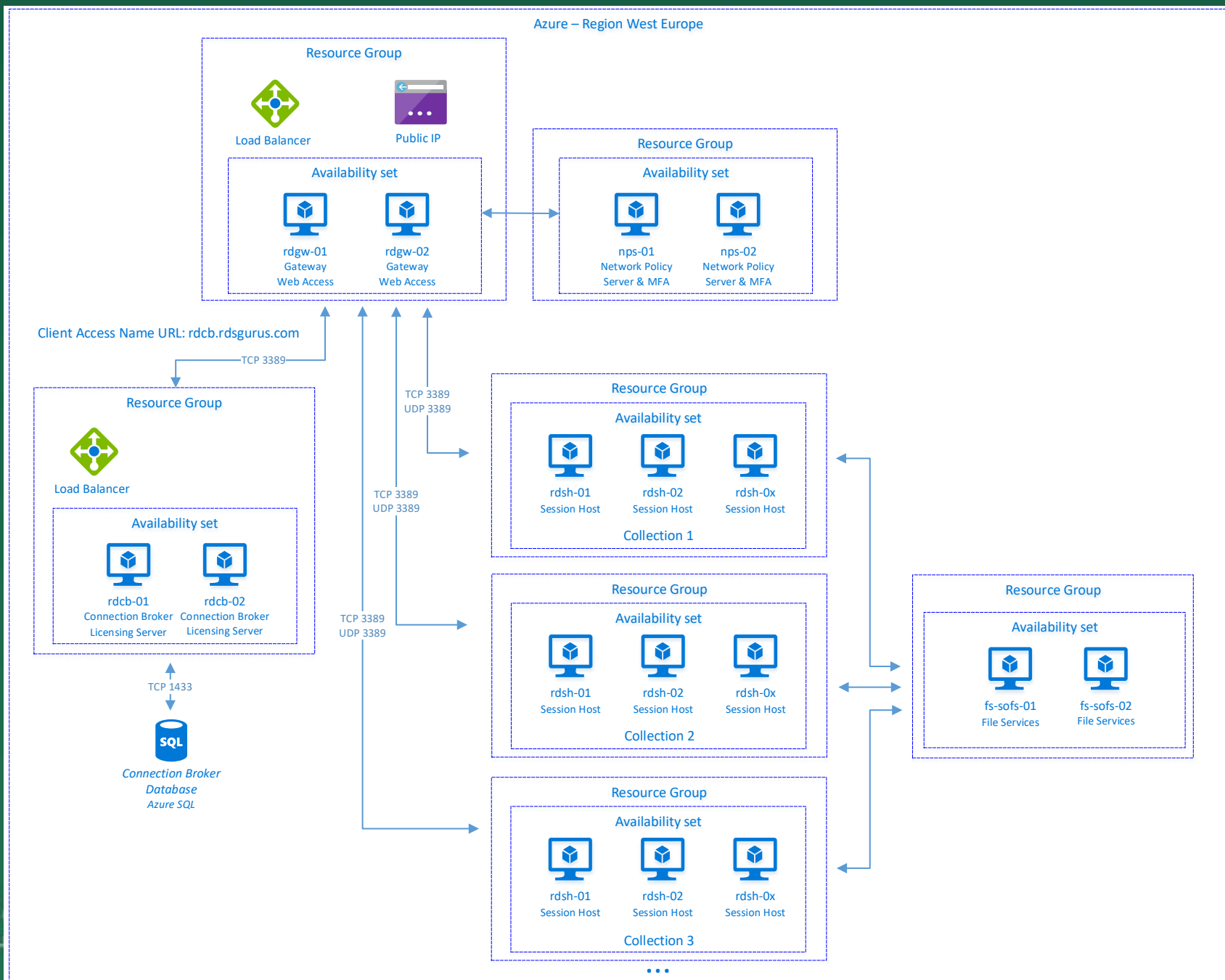
RDS on Azure IaaS 2019



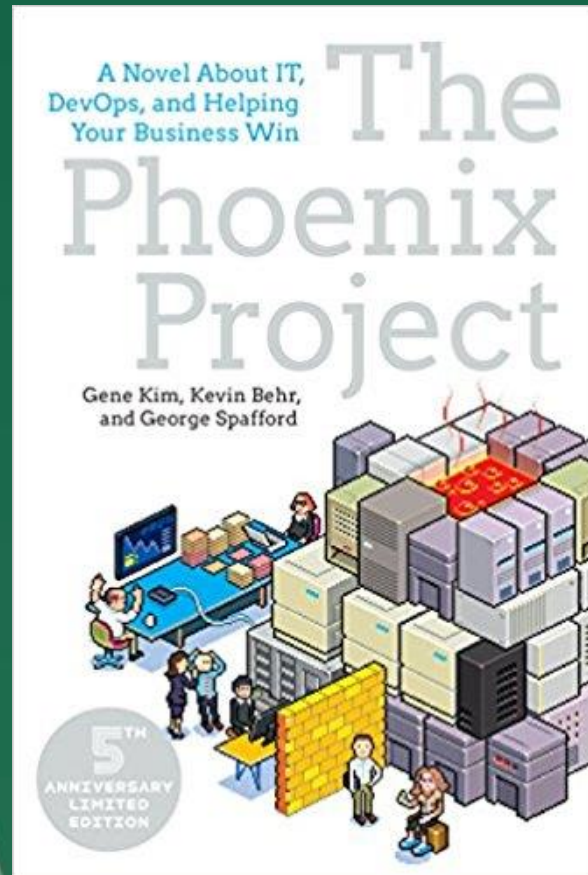
Other RDS 2019 improvements

- RD Licensing HA options with SQL Database
- RD Certificates in Azure Keyvault (updated Set-RDCertificate)
- DDA improvements (vGPU deprecated)
- High-level redirection of built-in or attached video camera
- New Perfmon counters

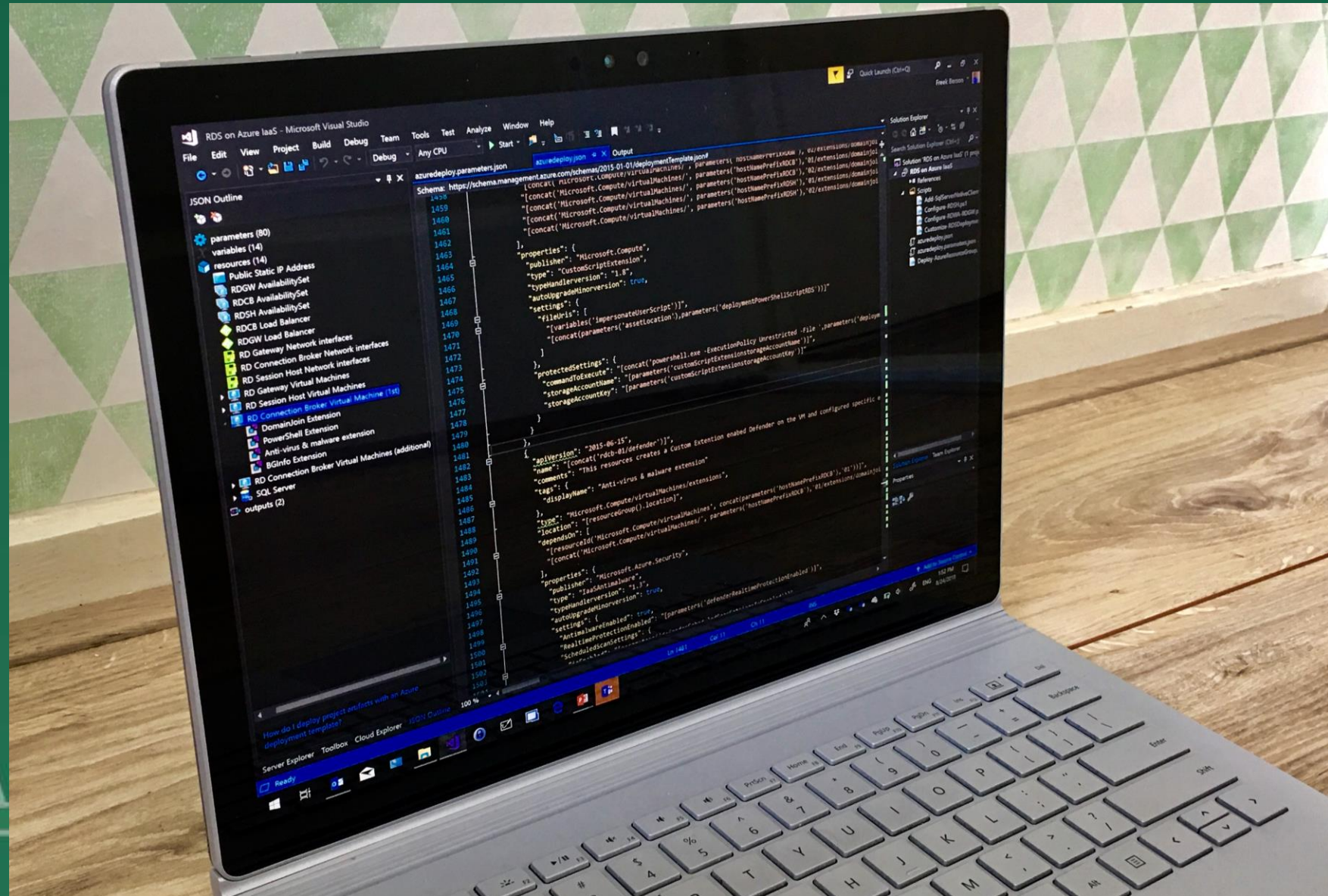
Blueprint



The Phoenix Project

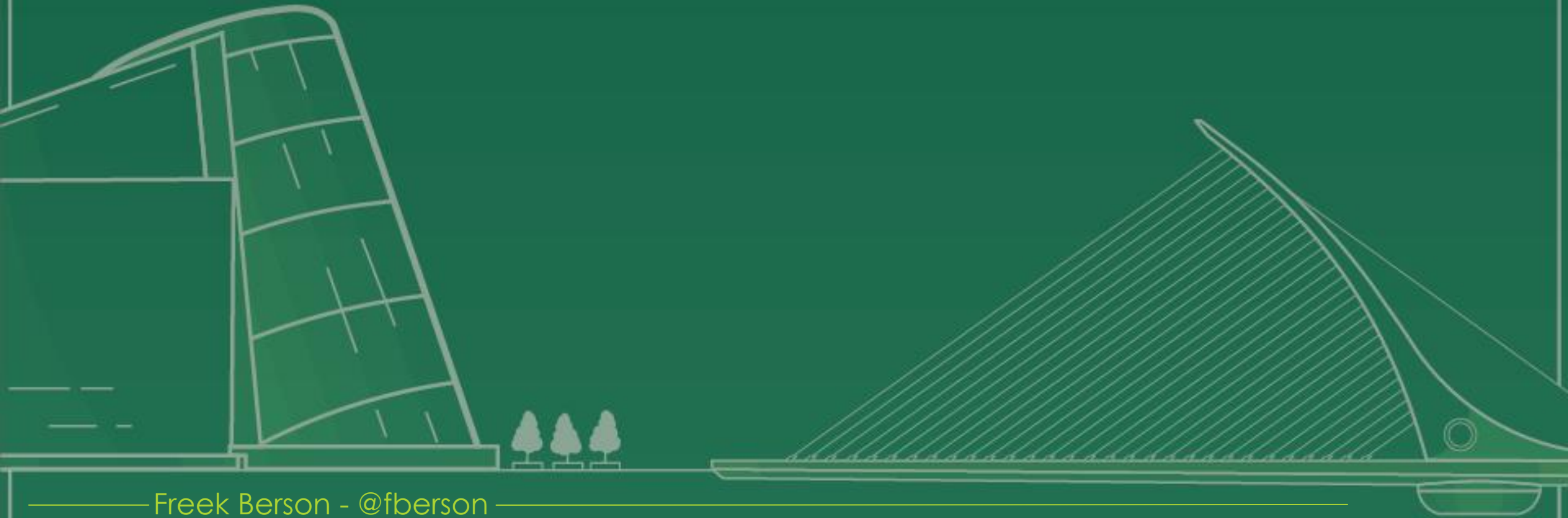


Infrastructure as Code

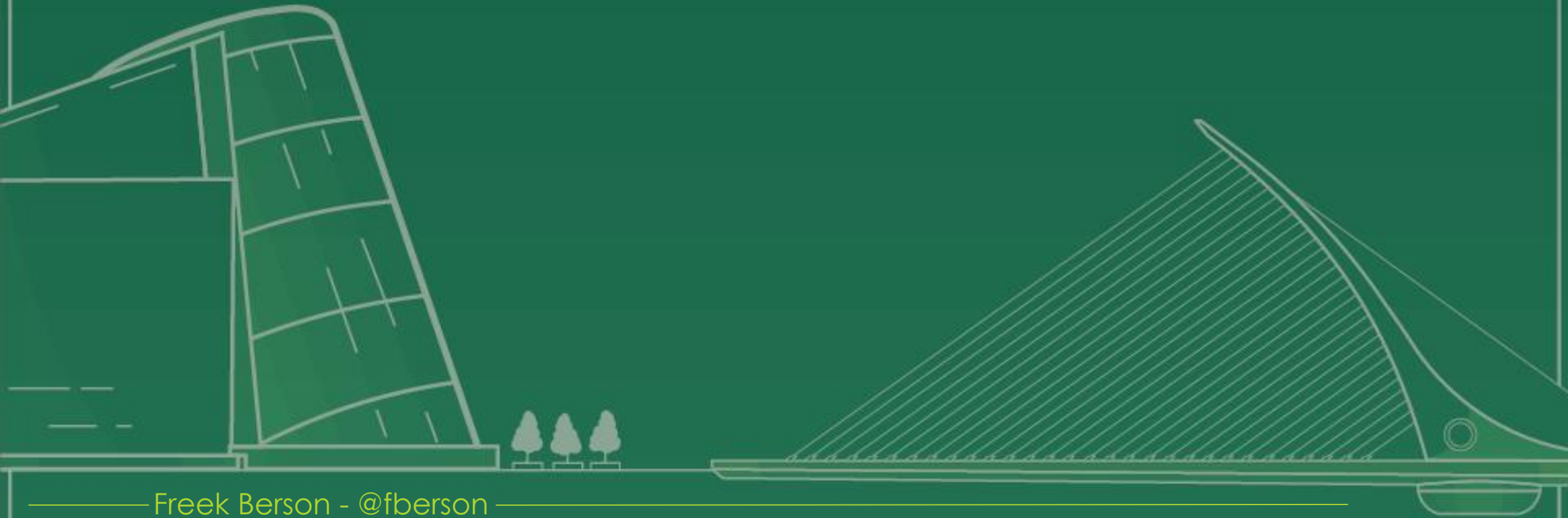


Demo

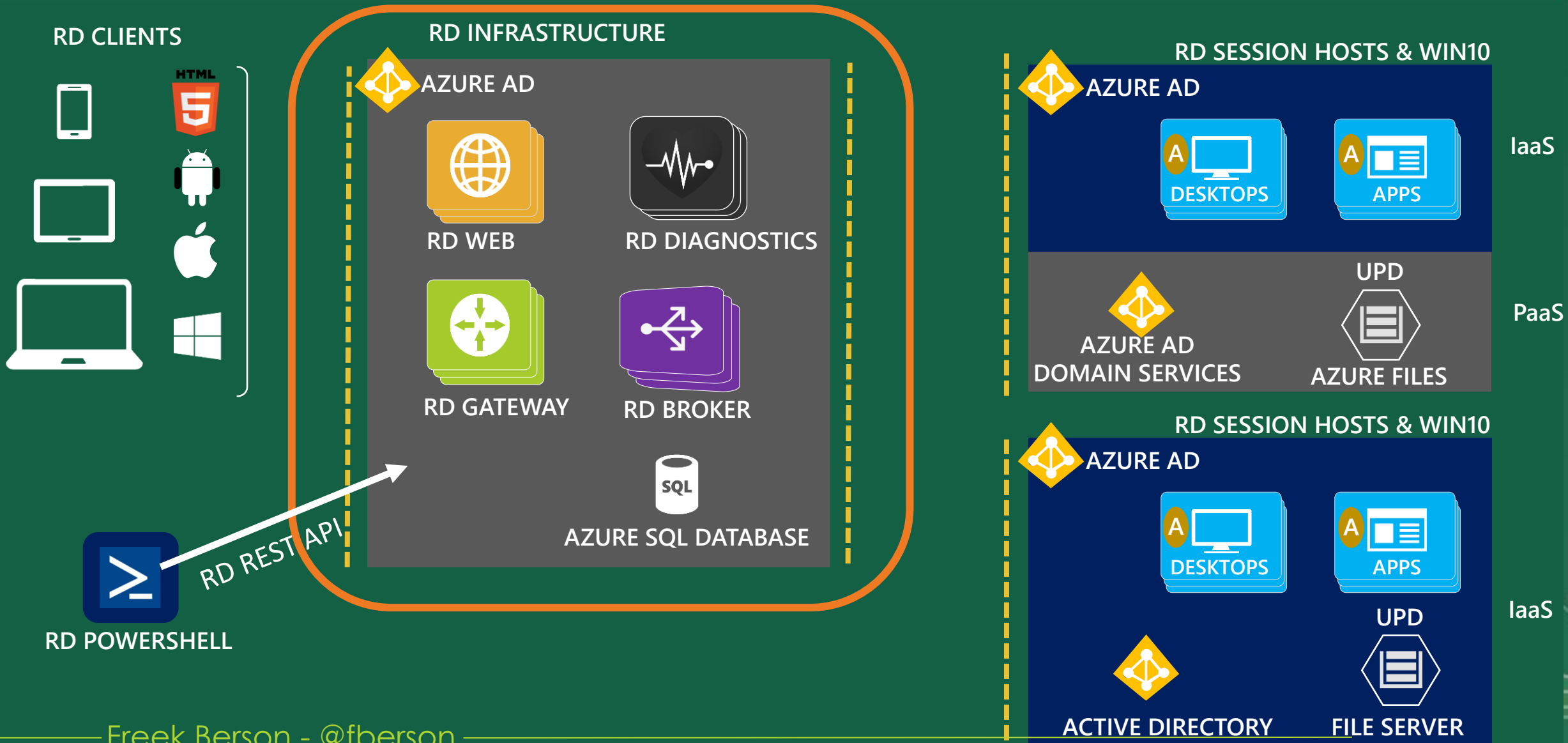
AUTOMATED FULL RDS HA DEPLOYMENT ON AZURE IAAS!



Part II – Windows Virtual Desktop (WVD)



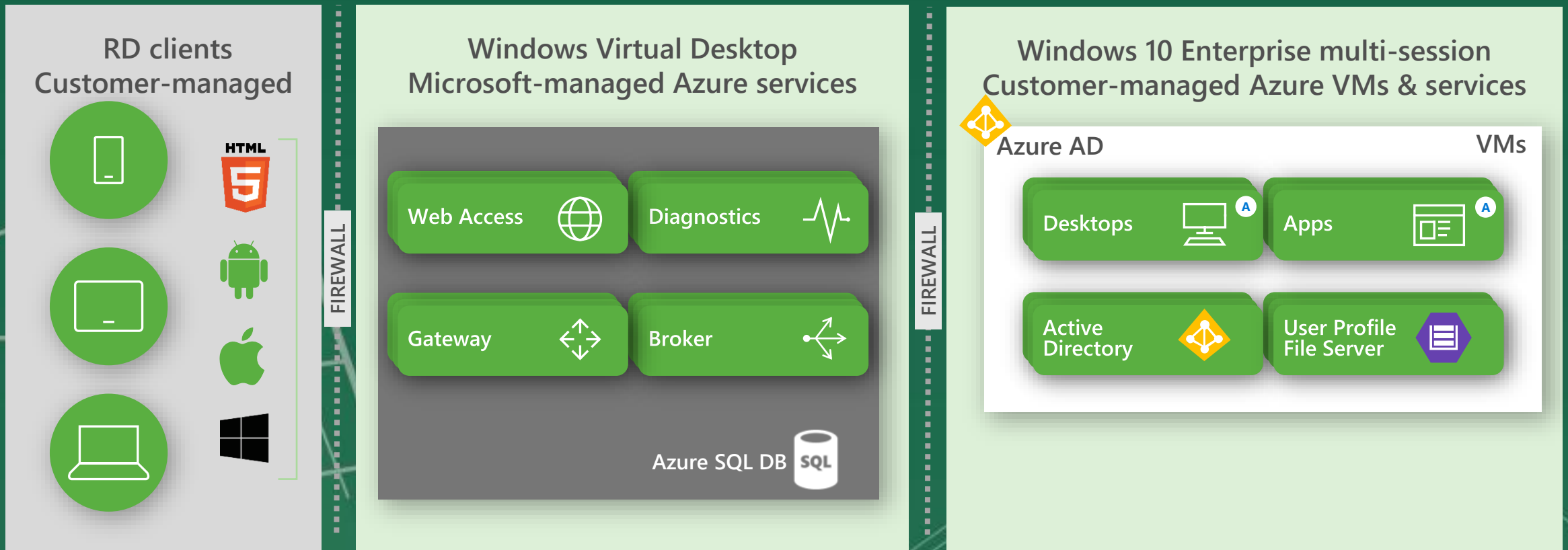
WVD = Rdm Evolved



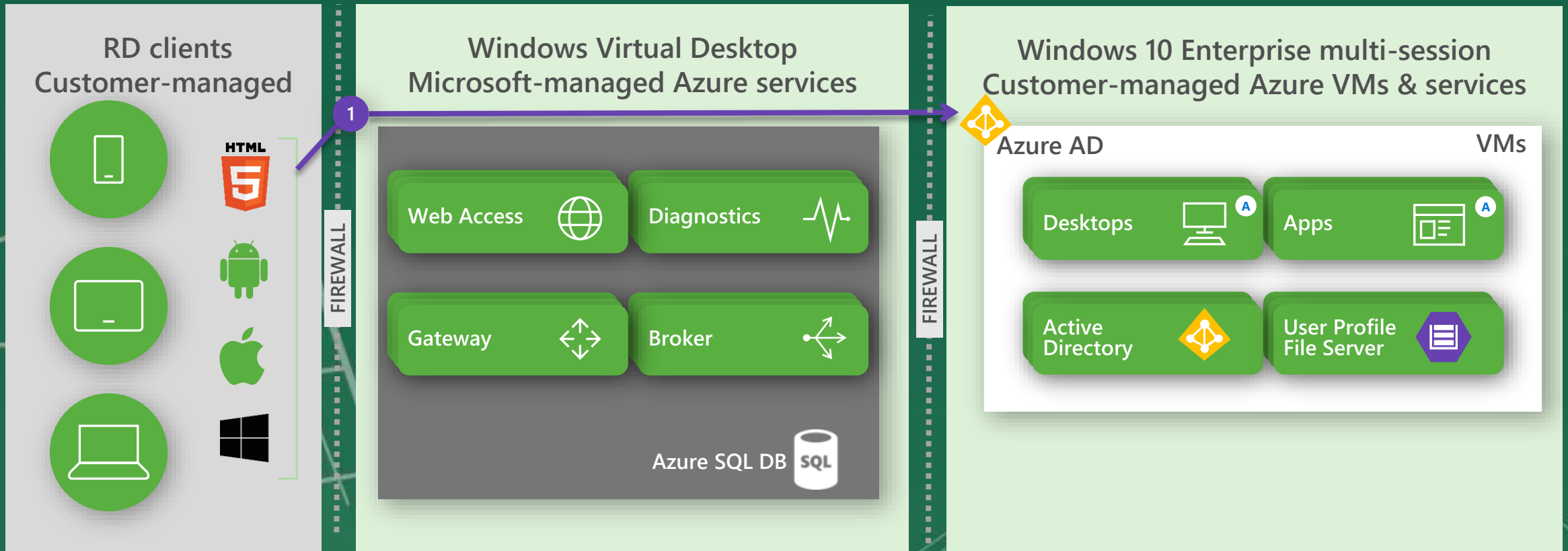
Windows Virtual Desktop

- Scalable service to deploy and manage
- Multi-user Windows 10 experience
- Optimized for Office 365 ProPlus
- Virtualize both desktops and apps
- Windows 7 virtual desktop with free Extended Security Updates
- Azure Active Directory
- Partner EcoSystem (FSLogix, Liquidware, ThinPrint, Citrix)

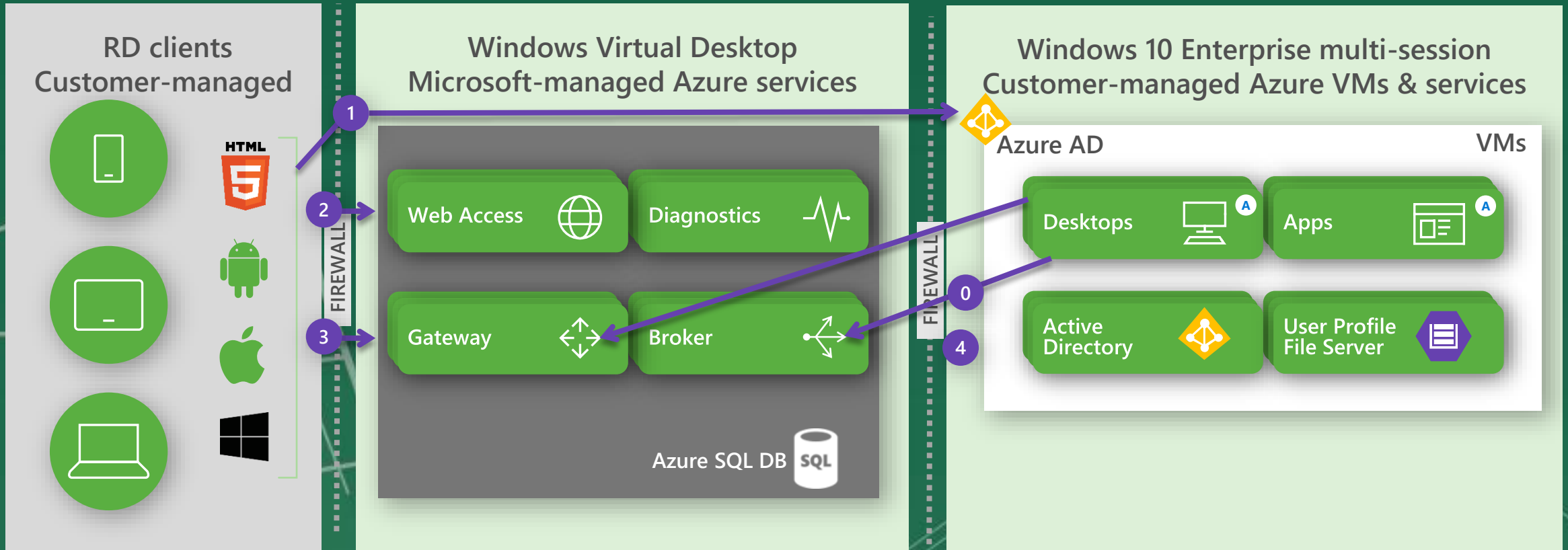
Architecture



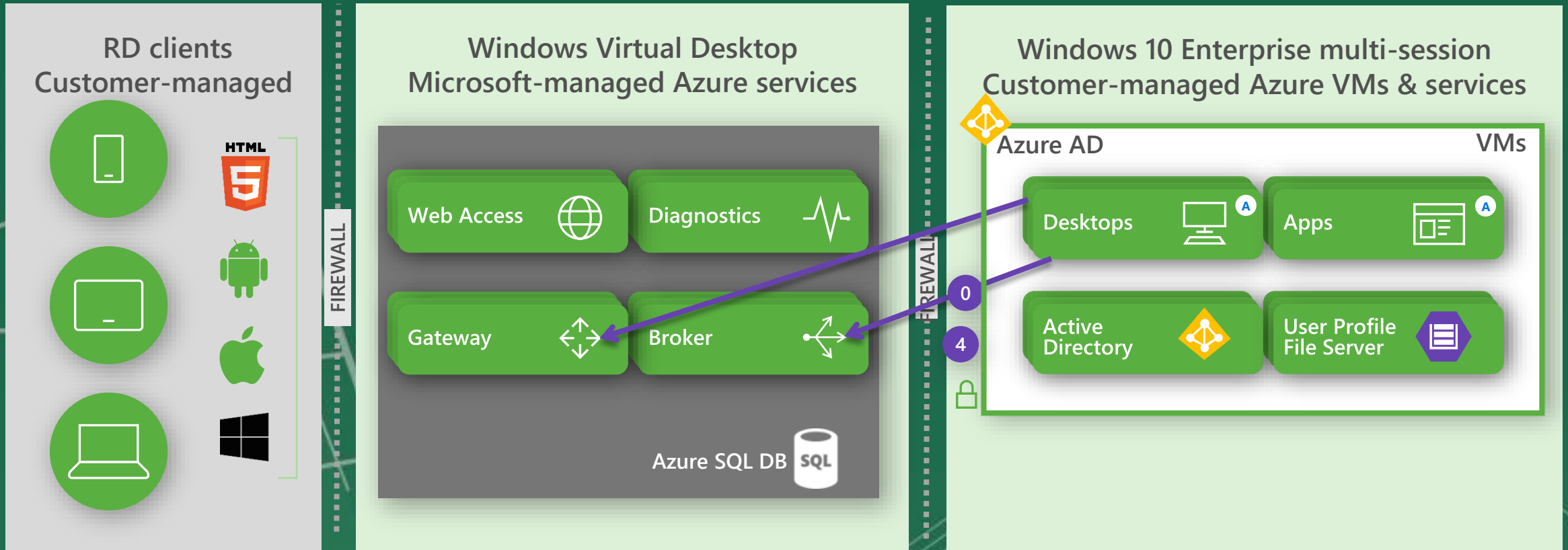
Azure AD Authentication



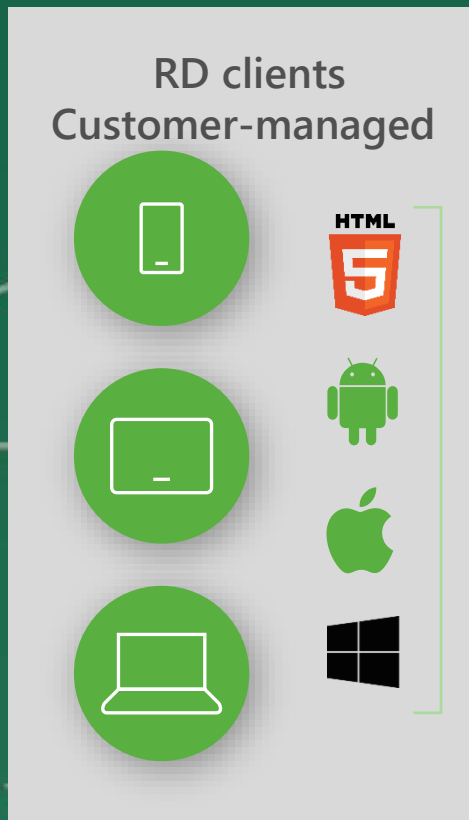
User Connection Flow



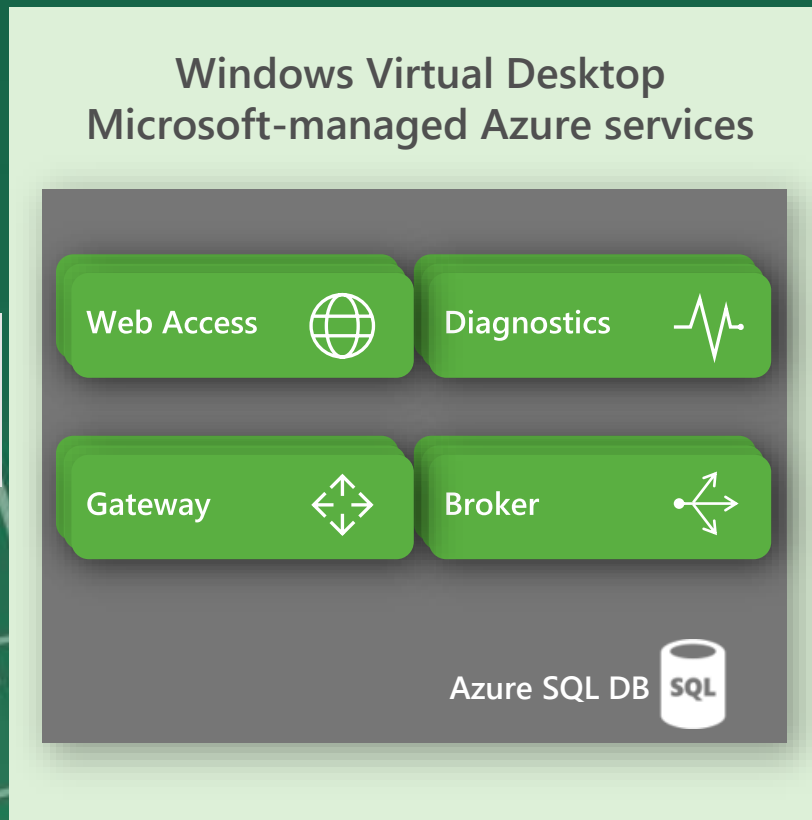
Improved Isolation: Reverse Connect



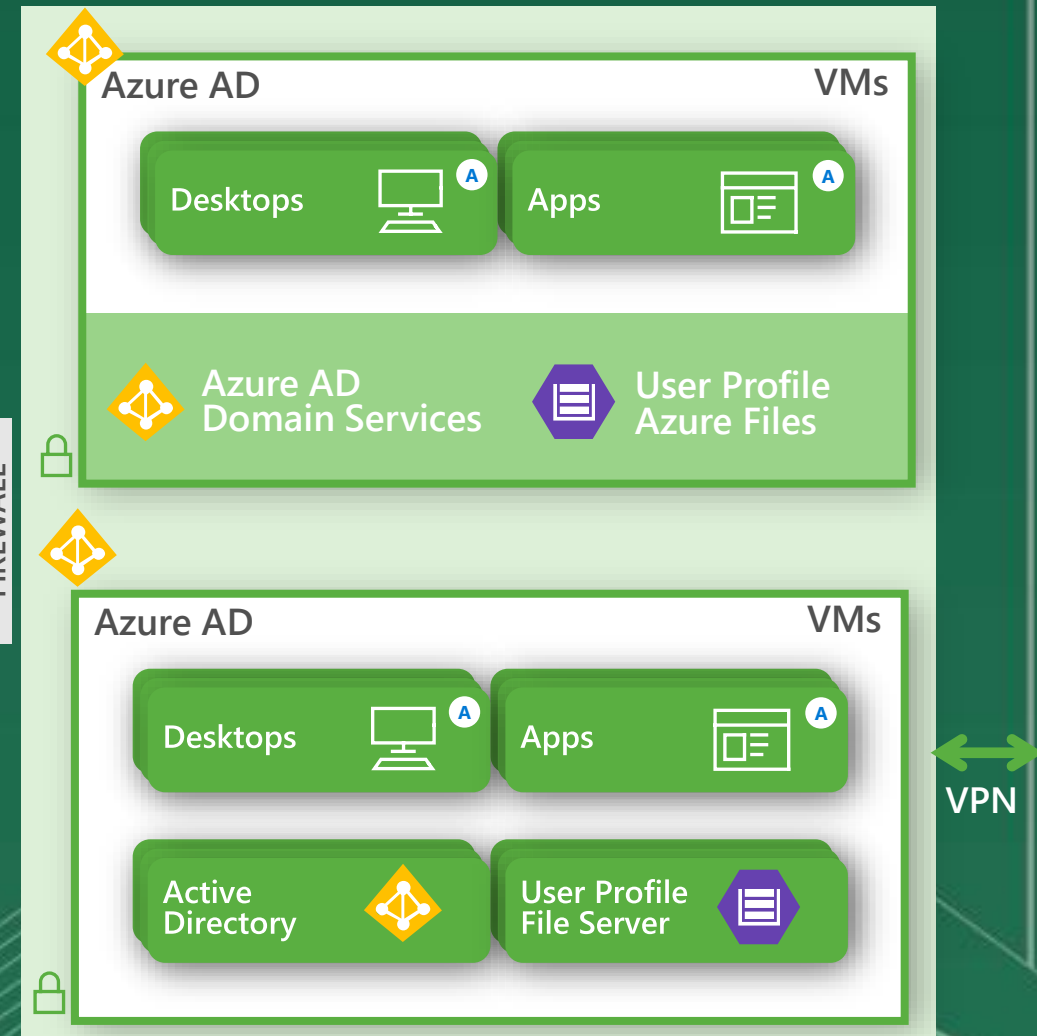
Multitenancy



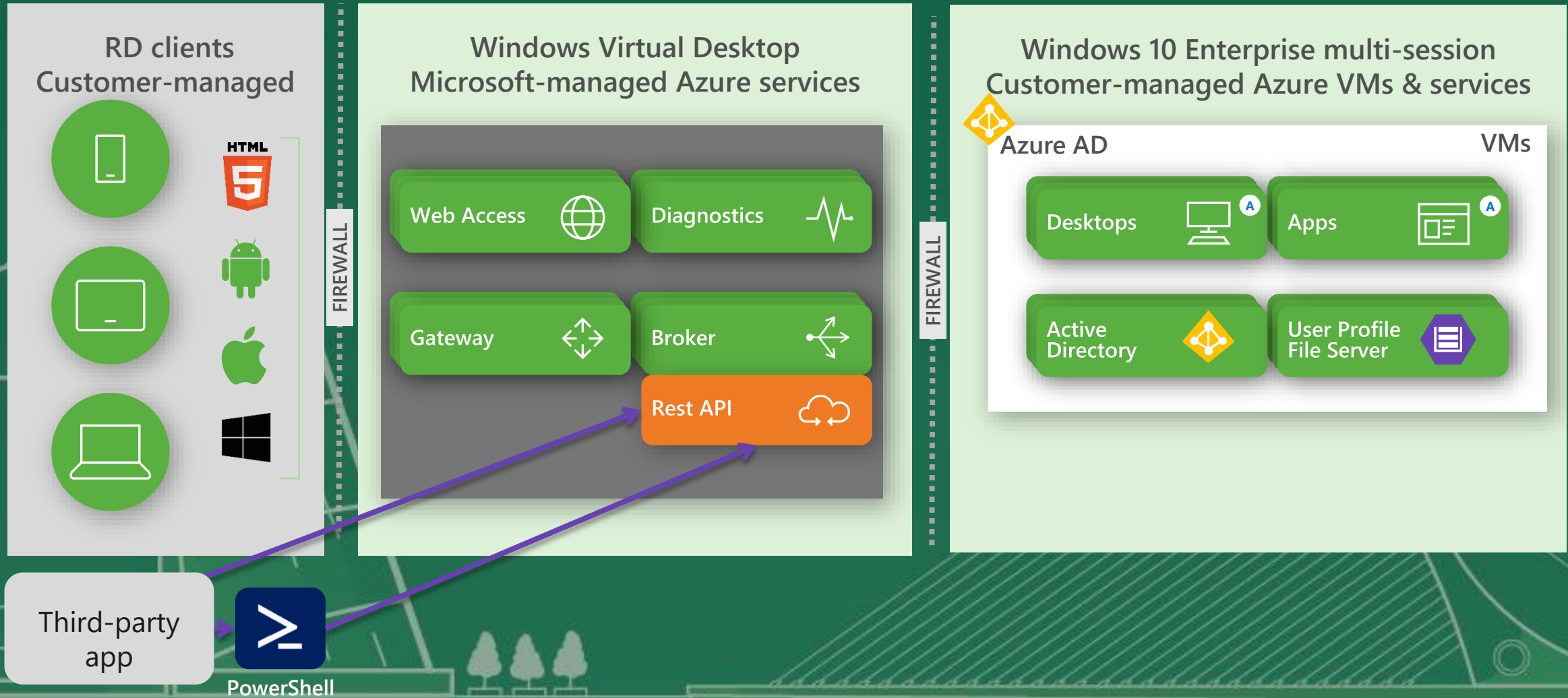
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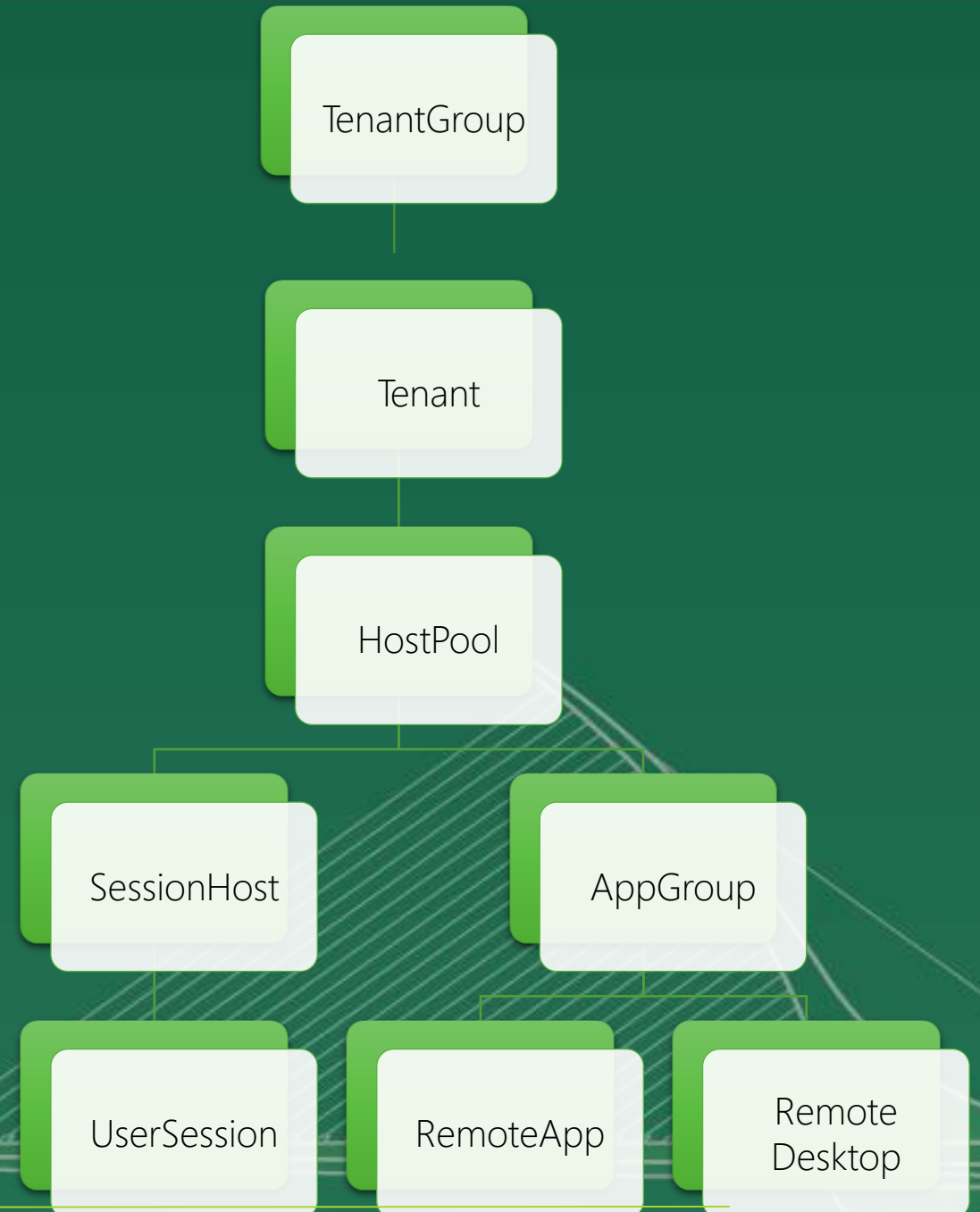
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Extensible Platform



WVD Object Model



Role Based Access Control

Principal

Azure AD user, group, or app
(Example: user1@contoso.onmicrosoft.com)

Role

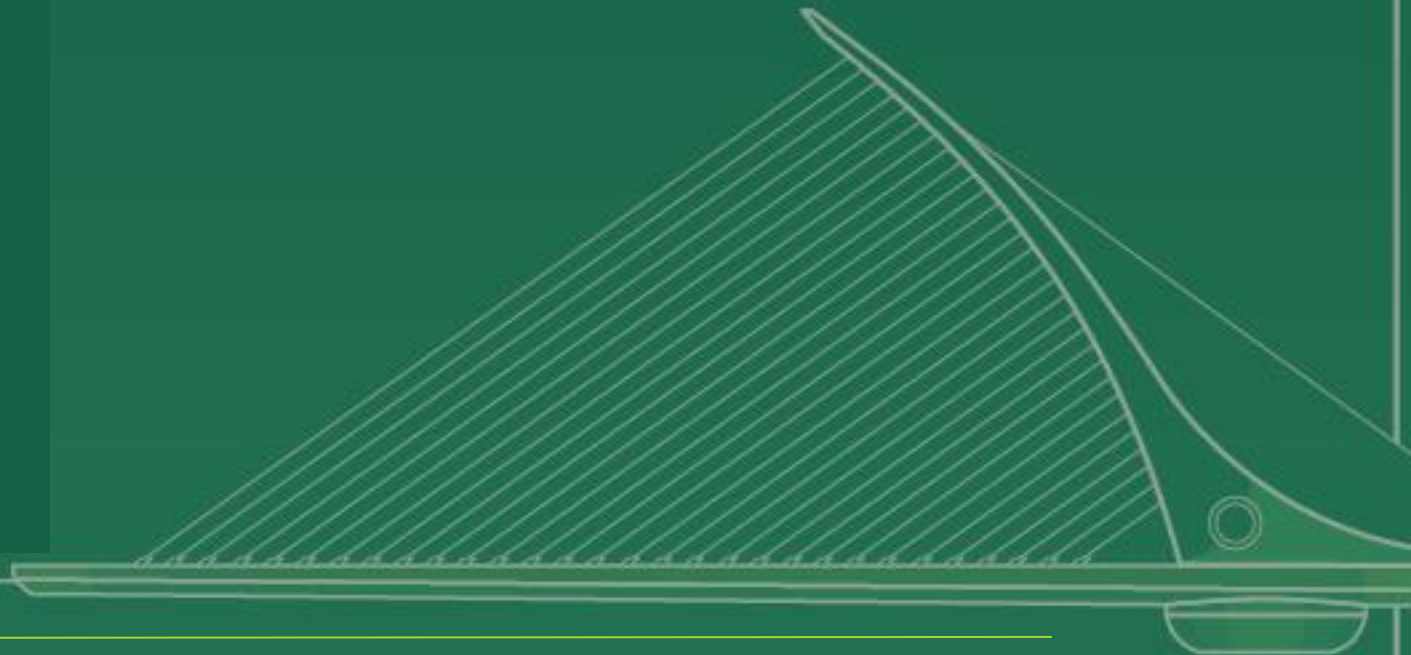
Set of capabilities
(Example: RDS Owner)

Scope

Object instance
(Example: Tenant1)

Assignment

Principal+Role+Scope
(Example: user1+RDS Owner+Tenant1)



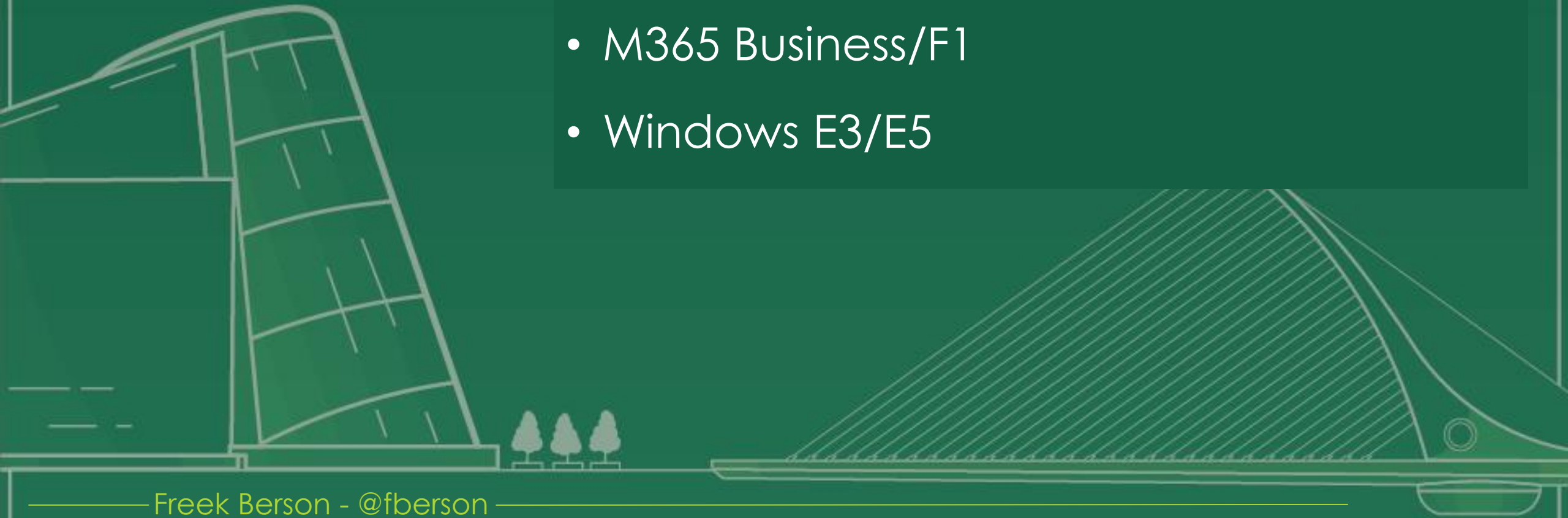
Hostpool flexibility

- RemoteApp and desktop app groups
- Set different load balancing algorithms
 - Breath mode with Reserved Instances
 - Depth mode
- Single or multi-session session host VMs
- Pooled or personal (future) session host VMs

Licensing

Windows Virtual Desktop requires either:

- M365 E3/E5
- M365 Business/F1
- Windows E3/E5



Windows 10 multi-user



Windows Server 2019 RD Session Host

Scalable multi-user **legacy**
Windows environment.

Windows Server 2019

Multiple users

Win32

Office 2019 Perpetual

Long-Term Servicing Channel

Windows 10 Enterprise multi-user

Scalable multi-user **modern**
Windows user experience with
Windows 10 Enterprise security

Windows 10

Multiple users

Win32, UWP

Office 365 ProPlus

Semi-Annual Channel

Windows 10 Enterprise

Native single-session **modern**
Windows experience.

Windows 10

Single user

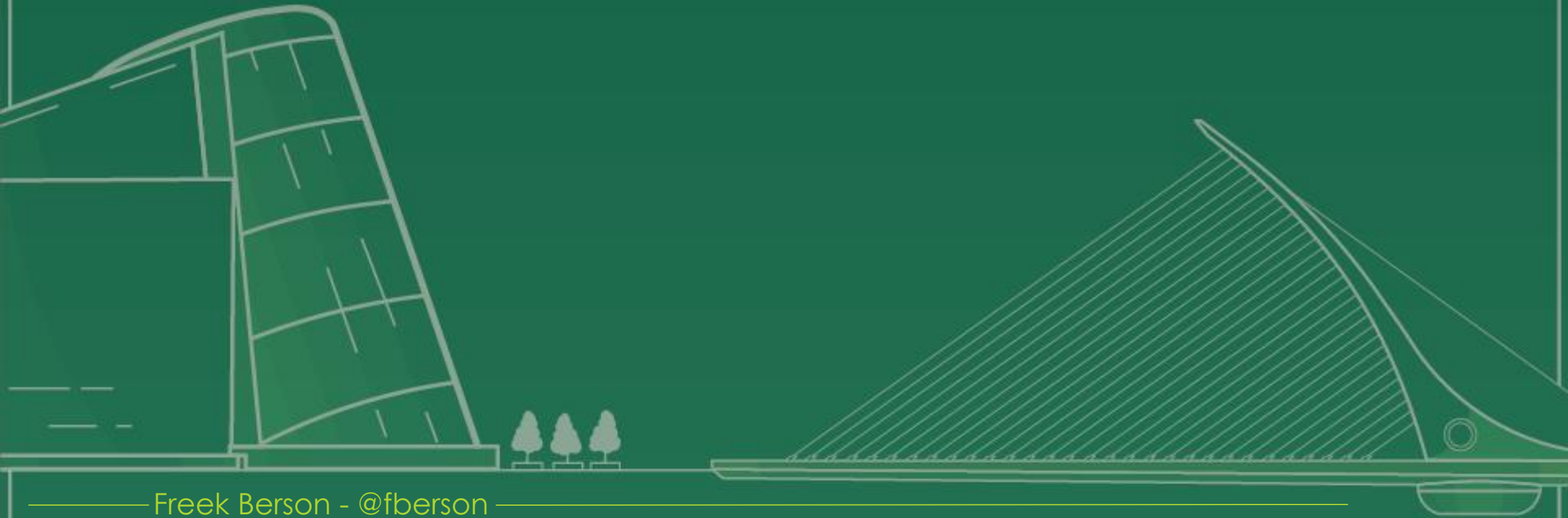
Win32, UWP

Office 365 ProPlus

Semi-Annual Channel

Demo

WINDOWS VIRTUAL DESKTOP (WVD)



Timeline

September 2018

Announcing WVD
Public Preview later in 2018

WVD GA

General Available - Early 2019

June

July

August

September

October

November

December

2019

Selecting your ideal platform

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Windows Virtual Desktop:

- Microsoft to manage RDS Infra components as a service
- Windows 10 Enterprise multi-session capabilities
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Call to action

- Start using ARM today!
- Email me for the ARM template: freek@wortell.nl
- Sign up to be notified for WVD Public Preview: aka.ms/wvdpreview



THANK YOU!