

The background is a deep blue gradient. Overlaid on this is a complex, glowing network of thin white lines connecting numerous small, bright blue nodes. The network is denser on the right side, where it forms a more structured, geometric shape resembling a cluster or a stylized building, and becomes more sparse and chaotic towards the left.

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March 21-22, 2018

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Shaping the future of Remote Desktop Services on Azure

Freek Berson

@fberson

Introduction



Introduction

Freek Berson

Remoting Windows Enthusiast

Microsoft MVP – RDS

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Agenda



Up to speed with RDS on IaaS



Remote Desktop modern infrastructure



HTML5



Project Honolulu

Why Remote Desktop Services?

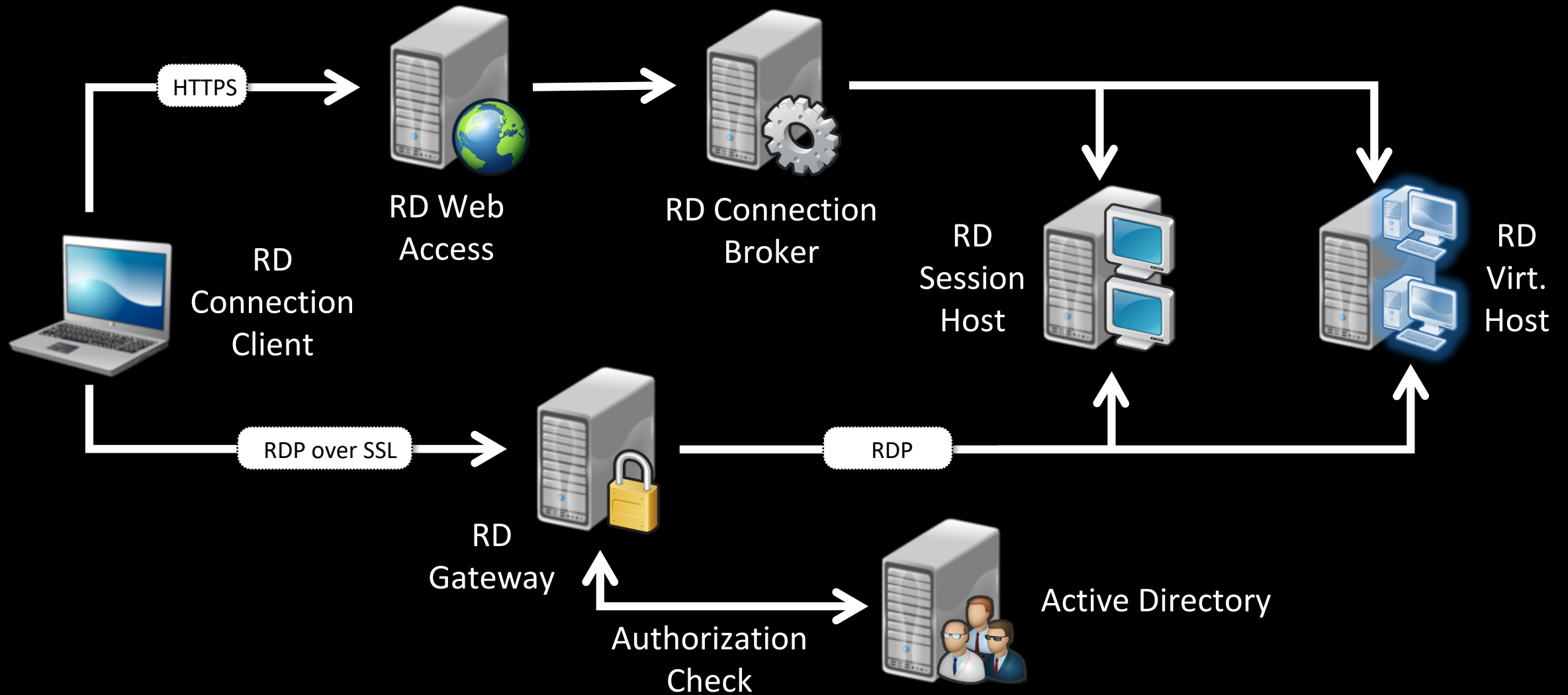
- Software as a Service (SaaS)
- Web- and HTML5
- App store Apps

Traditional Windows Applications

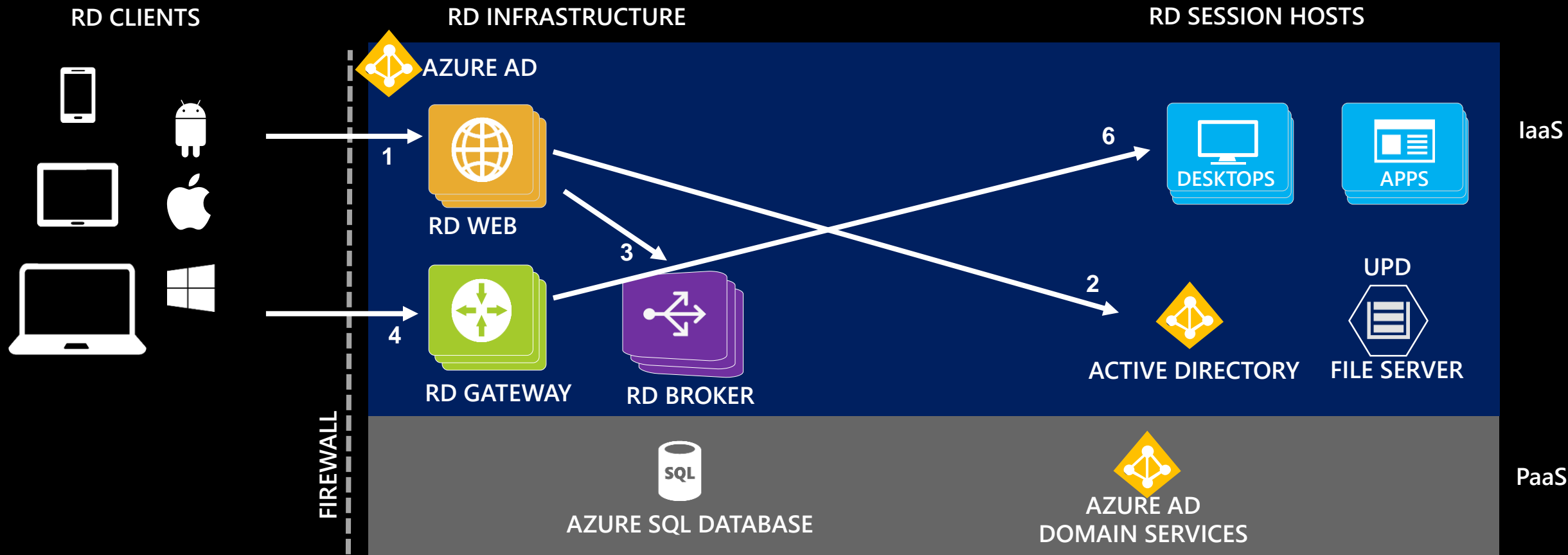
- Not designed for modern workplace
- Demand Windows Desktop
- Rely heavily on application back end
- Process huge amounts of data

Complete the modern workplace story by providing access to traditional Win32 applications from Azure.

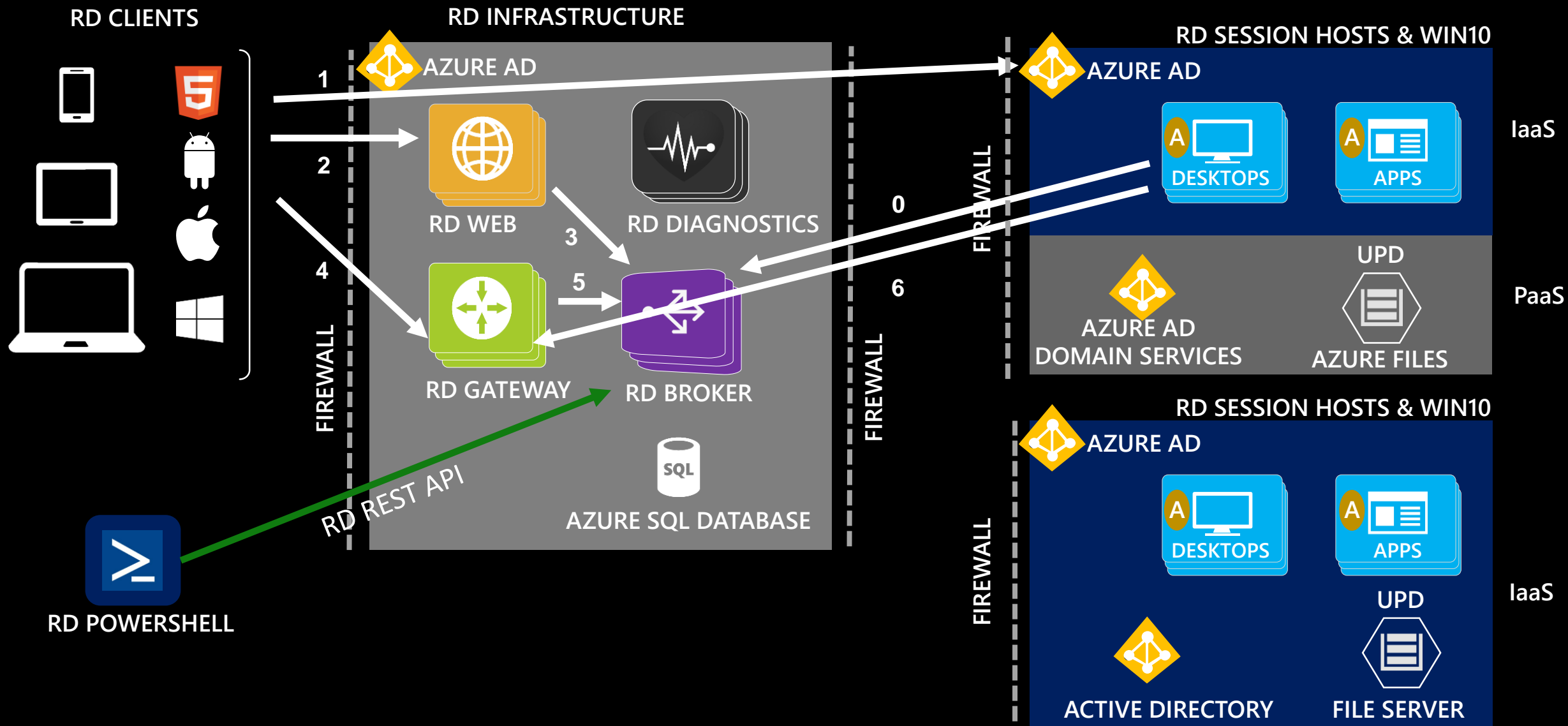
RDS Roles explained



RDS 2016 on Azure IaaS

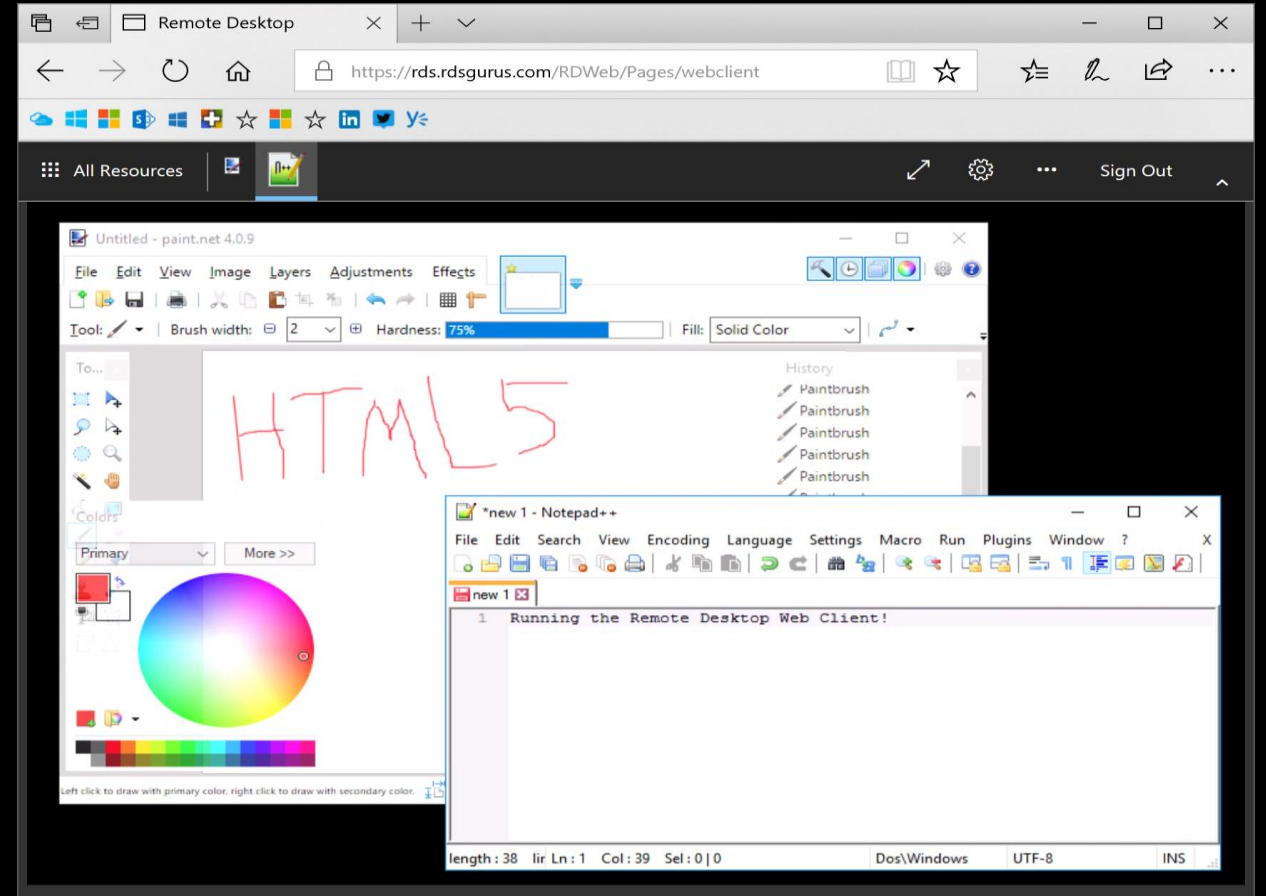


Remote Desktop modern infrastructure (RDmi)



HTML5

- Clientless access (modern browser)
- Available in RDmi
- Also available for RDS 2016



Microsoft

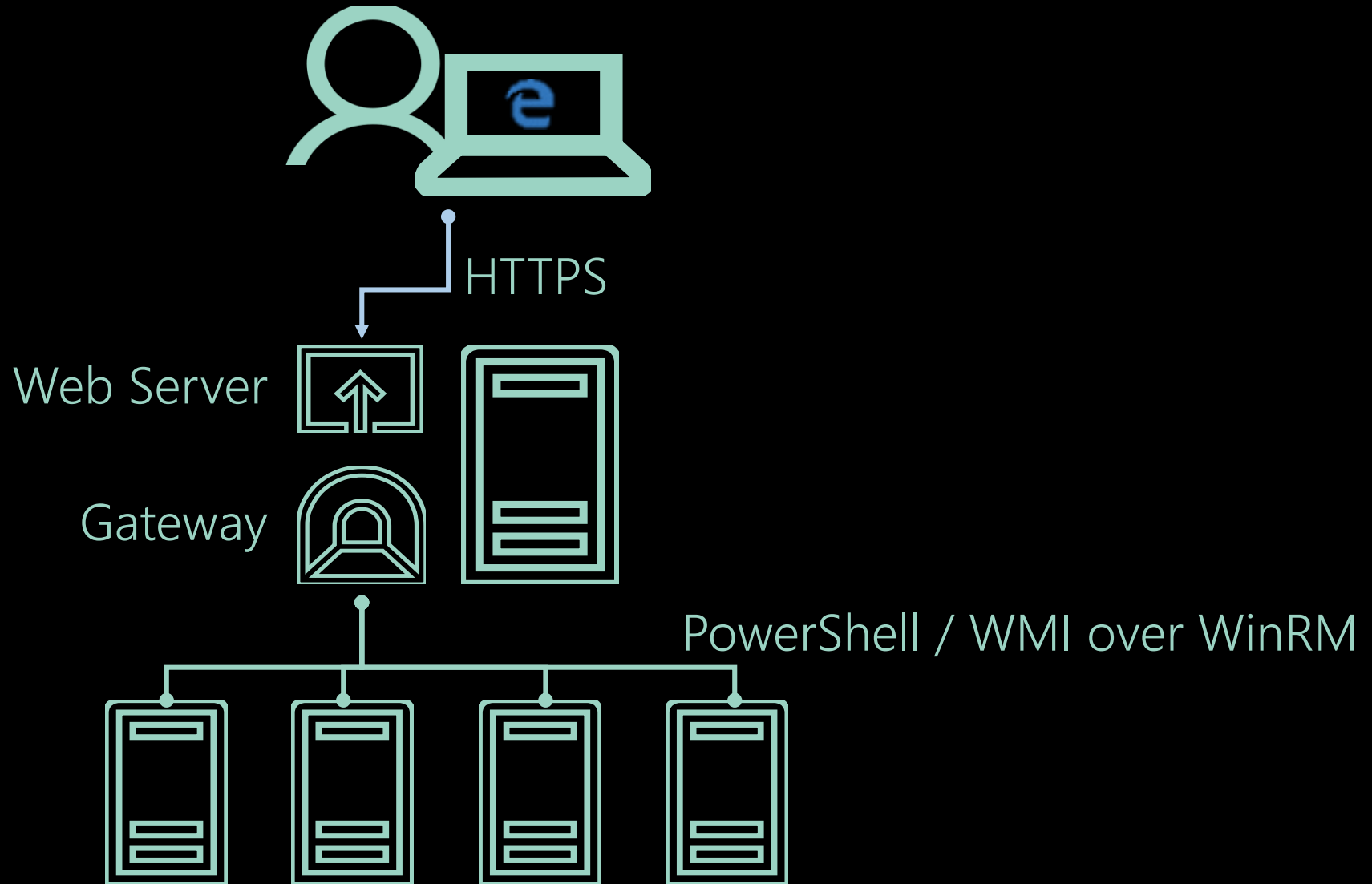
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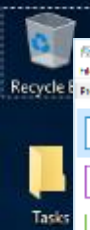
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Project Honolulu





Task Manager

Resource Monitor

Event Viewer

Hyper-V Manager

Device Manager

Command Prompt

Settings

Windows Update

Home

Find a setting

Update & security

Your device is up to date. Last checked: Today, 4:31 PM

Event Viewer

Custom View

Windows

Application

Security

System

Forward

Application

Hardware

Internal

Key Management

Microsoft

Microsoft

Windows

Subscription

Hyper-V Manager

Virtual Machines

Name	State	CPU Usage	Assigned Memory	Uptime	Status
MS Hyper-V Server 2012 R2 Gen 1	Saved				
Ubuntu Server 15.10	Off				
Windows 10	Off				
Windows 10 EE RS2 15047	Off				
Windows Server 2003	Saved				
Windows Server 2016	Off				
Windows Server 2016 RS2 15046 Full	Saved				
Windows Server 2016 Server Core	Off				

Checkpoints

The selected virtual machine has no checkpoints.

Windows Server 2016

Created: 1/27/2017 8:22:02 AM

Configuration Version: 8.0

Generation: 2

Notes: None

Clustered: No

Summary Memory Networking

Actions

JEFFWOO-535

Quick Create...

New

Import Virtual Machine...

Hyper-V Settings...

Virtual Switch Manager...

Virtual SAN Manager...

Edit Disk...

Inspect Disk...

Stop Service

Remove Server

Refresh

View

Help

Windows Server 2016

Connect...

Settings...

Upgrade Configuration Version...

Start

Checkpoint

Move...

Export...

Rename...

Delete...

Help

Download and install updates, except on metered connections (where charges may apply). Initially download only those updates required to keep Windows running smoothly.

Local Disk (C:)

Large icons

Small icons

Details

Group by

Add columns

Size all columns to fit

Current view

Item check boxes

File name extensions

Hidden items

Hide selected items

Options

Search Local Disk (C:)

Date modified	Type	Size
6/22/2017 2:22 PM	File folder	
7/18/2017 7:07 AM	File folder	
6/23/2017 12:23 PM	File folder	
6/22/2017 2:21 PM	File folder	
6/22/2017 2:41 PM	File folder	
7/11/2017 11:42 AM	File folder	
6/26/2017 10:29 AM	File folder	

7 items

Level: Information

User: N/A

OpCode: Info

More Information: [Event Log Online Help](#)

☰

🏠

vm-rdsh-05.rdmi.cloud

Tools

Search Tools

Overview

Certificates

Devices

Events

Files

Firewall

Local Users & Groups

Network

PowerShell

Processes

Registry

Remote Desktop

Roles & Features

Services

Storage

Storage Replica

Updates

Overview

🔄 Restart

🔌 Shutdown

🕒 Disable Disk Metrics

✎ Edit Computer ID

⚙️ Settings

🔄 Refresh

Computer Name:	Domain:	Operating System:	Version:
vm-rdsh-05	rdmi.cloud	Microsoft Windows Server 2016 Datacenter	10.0.14393
Installed Memory (RAM):	Total Disk Space:	Processors:	Manufacturer
14 GB	155 GB	Intel(R) Xeon(R) CPU E5-2673 v3 @ 2.40GHz	Microsoft Corporation
Model	Logical Processors	Free Disk Space	NIC(s)
Virtual Machine	4	140.62 GB	2

Ethernet (Ethernet 3)

Send
448 Kbps

Receive
96 Kbps

Disk 0 C:

Read Transfer Rate
0 Kbps

Write Transfer Rate
0 Kbps

RDmi Rest API example

The screenshot displays the Microsoft RD Modern Infrastructure console. The top navigation bar includes the Microsoft logo, 'RD Modern Infrastructure', and a breadcrumb trail: 'All Deployments > Contoso RDS > RdsPTenant1 > ContosoHP1'. On the right, there are icons for history, notifications, settings, a smiley face, and a help icon, along with the user 'Ignite Demo' and email 'ignitedemo@PeopleTechCSP.onmicro...'. The left sidebar shows a tree view under 'RDS Deployments' with options to expand/collapse menus, 'All Deployments', 'Contoso RDS', 'Infrastructure', 'RdsPTenant1' (selected), 'ContosoHP1', 'ContosoHP2', and 'RdsCNTenant'. The main content area is titled 'Host pool "ContosoHP1"' and has tabs for 'General', 'Hosts', and 'App groups' (selected). A message at the top states 'No hosts in host pool "ContosoHP1".' with an '+ Add hosts' link. Below the tabs, there are links for '+ New app group', 'Edit app group', and 'Delete app group', followed by a search bar. A table lists app groups:

<input type="checkbox"/>	App group name	Type	Apps	Active users	Users
<input type="checkbox"/>	Desktop Application Group	1	2	3	1
<input checked="" type="checkbox"/>	Contoso Remote App Group	0	2	3	1

Below the table is a section titled '"Desktop Application Group" details' with tabs for 'Settings', 'Apps' (selected), and 'Users'. It includes links for '+ Add apps from Image', '+ Add apps from path', 'Configure App', and 'Delete Apps', followed by a search bar. A table lists installed apps:

<input type="checkbox"/>	Name	Path	Show in web feed	Require command line
<input type="checkbox"/>	Excel	%SYSTEMDRIVE%\Program Files\Microsoft Office 15\root\office15\excel.exe	On	Off
<input type="checkbox"/>	OneNote	%SYSTEMDRIVE%\Program Files\Microsoft Office 15\root\office15\onenote.exe	On	Off

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Recap & call to action



Remote Desktop modern infrastructure

Public Preview expected this summer

GA estimated for RS5



HTML5

Public Preview expected within a month



Project Honolulu

Public Preview is available now, integration with RDmi is coming!

→ Reach out: freek@rdmi.cloud / [@fberson](https://twitter.com/fberson)

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Thank you!