Azure RemoteApp: A Workplace in the Cloud?

Nicholas Dille, RDS MVP DuCUG, 25.09.2015

Who is that guy?

Husband, father, geek, autor, aikidoka

Teamlead Enterprise Consulting @ Makro Factory 10+ years experience with SBC/VDI RDS MVP since 2010

http://dille.name/blog @NicholasDille

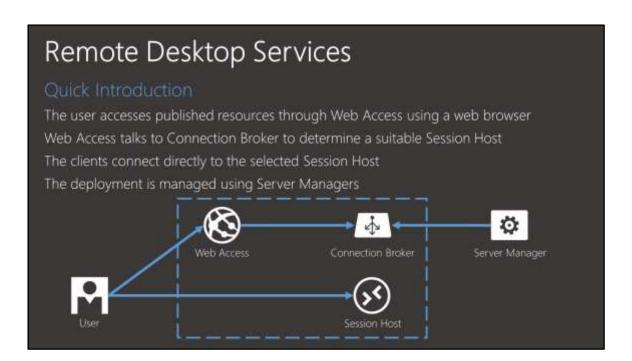


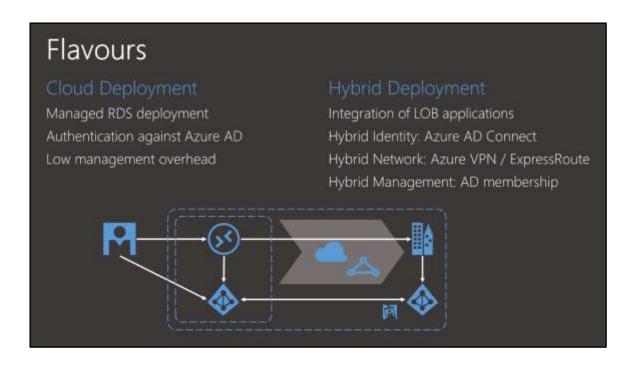




Microsoft Hyper-V und System Center in Windows Server 2012 (R2)







https://azure.microsoft.com/en-us/documentation/articles/remoteapp-whatis/

Flavours

Cloud Deployment

Image gallery

Automatic Updates of VMs Updates for OS and Office Microsoft Anti-Malware

No additional applications

Authentication using Azure AD

Hybrid Deployment

Custom Images

Responsibility for Updates Updates for OS and all applications Updates for anti-virus solution etc.

Integration of LOB applications

Authentication with on-premises AD

Can also be deployed from template image In this case, updates are handled by Azure

https://azure.microsoft.com/en-us/documentation/articles/remoteapp-whatis/https://azure.microsoft.com/en-us/documentation/articles/remoteapp-update/

Demo Creating a Cloud Deployment Managing a Deployment User Access Publishing Sessions

Hybrid Deployment

Prerequisites

On-premises infrastructure Active Directory Application backends

Network connection Internet access ExpressRoute

Configuration

Set up Virtual Network (VNET)

Set up Azure AD Connect

AD membership for Session Hosts

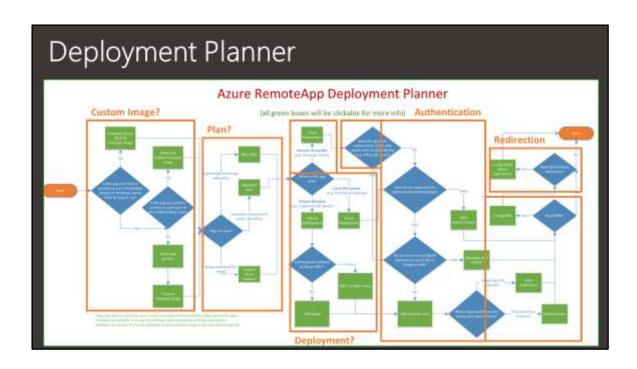
http://blogs.msdn.com/b/rds/archive/2015/04/23/deploy-azure-remoteapp-collection-to-your-azure-virtual-network-with-support-for-expressroute.aspx http://www.microsoft.com/en-us/download/details.aspx?id=47594

Demo

Preparing a Hybrid Deployment Azure AD Connect Virtual Network Gateway and RRAS

Creating a Hybrid Deployment Domain Join Template Image

Effect of a Hybrid Deployment RDSH Computer Accounts



Custom Images

Templates

Windows Server 2012 R2

Microsoft Office 365 ProPlus (Office 365 subscription required)

Microsoft Office 2013 Professional Plus (trial only)

Requirements

Gen1 only // MBR partitioning scheme // may have multiple partitions // no snapshots // VHD only // no VHDX // 127GB max // may be dynamically expanding // one Windows per image // no EFS // RDSH // Desktop Experience // SysPrep without /mode:vm

Updating

Update image, then assign image to collection

Existing session can have a grace period of 60 minutes OR NOT ;-)

https://azure.microsoft.com/en-us/documentation/articles/remoteapp-images/https://azure.microsoft.com/en-us/documentation/articles/remoteapp-imagereqs/https://azure.microsoft.com/en-us/documentation/articles/remoteapp-image-on-azurevm/

http://blogs.msdn.com/b/rds/archive/2015/03/17/how-to-create-a-remoteapptemplate-image-in-azure.aspx

https://azure.microsoft.com/en-us/documentation/articles/remoteapp-update/



Licensing Editions & Cost Fee per collection, Microsoft Office must be licenced separately Windows license and RDS CALS are included Service Level Agreement: 99,9% monthly availability Basic Standard Target user Task Worker Information Worker Starting price (user/month) \$10 \$15 Hours included 40 40

https://azure.microsoft.com/en-us/pricing/details/remoteapp/

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Licensing Fee per collection, Microsoft Office must be licenced separately Windows license and RDS CALS are included Service Level Agreement: 99,9% monthly availability Target user Task Worker Starting price (user/month) \$10 \$15 Hours included Hourly overage rate \$0,175/h \$0,20/h Capped price (user/month) \$23 Maximum users per collection 400* (800**) 250* (500**)

https://azure.microsoft.com/en-us/pricing/details/remoteapp/

Limitations Limit Collections per Subscription 3 * Collections per User 1 RemoteApps per Collection 100 Maximum Number of Sessions in all Collections 5.000 * Storage per User 50GB Idle Timeout 4 hours Disconnected Timeout 4 hours

https://azure.microsoft.com/en-us/documentation/articles/azure-subscription-service-limits/#azure-remoteapp-limits

Authentication Azure Active Directory User accounts need to come from the same AAD domain This domain can be changed but requires clearing and setting permissions Cloud Hybrid Microsoft Account Yes No Azure Active Directory Cloud only Yes No AD Connect with password sync Yes Yes AD Connect without password sync Yes Yes AD Connect with ADFS Yes Yes Azure Multi-Factor Authentication (MFA) Yes Yes (Office 365 accounts are AAD accounts)

Environment

Applications

Treat just like RDS deployment ;-)

Office 365 ProPlus

Included only in Office 365 Enterprise/Government E3 and higher ARA supports Shared Computer Activation (but only in custom images)

Office Professional Plus 2013

Data

OneDrive for Business (not OneDrive Consumer)

SharePoint

Network Share

Dropbox (not Box)

https://azure.microsoft.com/en-us/documentation/articles/remoteapp-o365/

https://technet.microsoft.com/library/dn782858.aspx

https://azure.microsoft.com/en-us/documentation/articles/remoteapp-

officesubscription/

https://technet.microsoft.com/library/office-365-plan-options.aspx

Tips and Tricks (1/2)

Configuring redirection

Enable USB redirection

Set-AzureRemoteAppCollection -CollectionName MyCol -CustomRdpProperty *usbdevicestoredirect:s:**

Configure more redirection options

https://azure.microsoft.com/en-us/documentation/articles/remoteapp-redirection/

Working with UPDs

Prepopulating: Modify the default profile in the template image

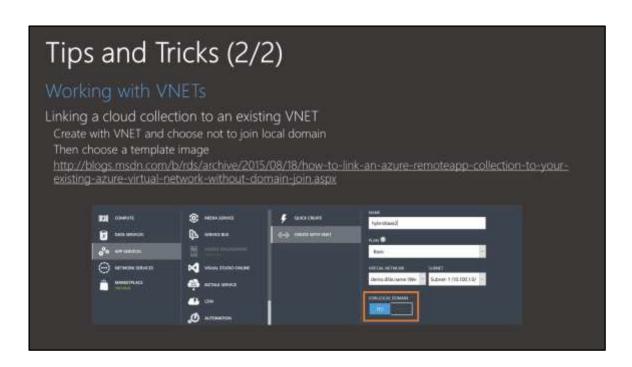
Managing UPDs almost exclusively through support (remoteappforum@microsoft.com)

Central management

(Local) Group Policy depending on deployment (domain joined or not)

Perhaps even PowerShell Desired State Configuration

https://azure.microsoft.com/en-us/documentation/articles/remoteapp-redirection/https://azure.microsoft.com/en-us/documentation/articles/remoteapp-upd/https://azure.microsoft.com/en-us/documentation/articles/remoteapp-secure/



http://blogs.msdn.com/b/rds/archive/2015/08/18/how-to-link-an-azure-remoteapp-collection-to-your-existing-azure-virtual-network-without-domain-join.aspx

Automation

PowerShell

Installing Azure PowerShell Module

https://azure.microsoft.com/en-us/documentation/articles/powershell-install-configure/

Introduction to ARA Cmdlets

https://azure.microsoft.com/en-us/documentation/articles/remoteapp-tutorial-arawithpowershell/

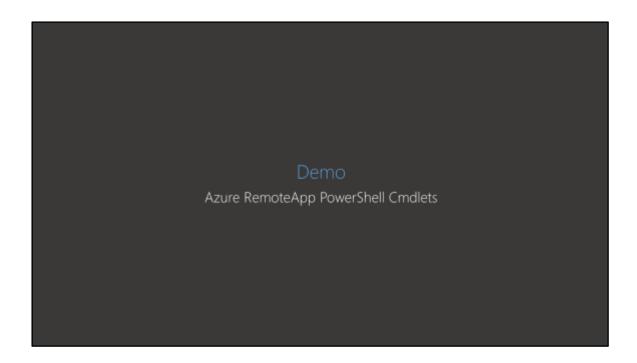
Azure Automation

Use the Azure PowerShell Cmdlets (see above)

Azure Resource Manager

Quick Start Template for RDS

http://blogs.msdn.com/b/rds/archive/2015/07/13/azure-resource-manager-template-for-rds-deployment.aspx



What now? Give it a try Landing Page https://www.remoteapp.windowsazure.com/ What you get Runs 30 days 2 Collections per Subscription 10 Users per Collection 25 Template Images

https://azure.microsoft.com/en-us/documentation/articles/azure-subscription-service-limits/#azure-remoteapp-limits

What now?

Learn

Documentation

http://azure.microsoft.com/en-us/documentation/services/remoteapp/

FAO

https://azure.microsoft.com/en-us/documentation/articles/remoteapp-fag/

Forum

https://social.msdn.microsoft.com/forums/azure/en-US/home?forum=azureremoteapp

Azure RemoteApp AskTheExperts Webinar

https://azureinfo.microsoft.com/AzureRemoteAppAskTheExperts-Registration-Page.html

Opsgility: Azure RemoteApp, From Introduction to Advanced (by <u>Freek Berson</u>) https://www.opsgility.com/courses/details/azure-remote-app-from-introduction-to-advanced

Microsoft Virtual Academy: Azure RemoteApp Core Skills

https://www.microsoftvirtualacademy.com/en-US/training-courses/azure-remoteapp-core-skills-11814

Challenges

Fnd User

No desktop integration No file type association

No profile management

Collections

No assigments based on RemoteApp

Single AAD domain

No telemetry data

Features

No UDP for RDP

No GPU support

No container

No client API

http://feedback.azure.com/forums/247748-azure-remoteapp





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