Microsoft

Hands-on Lab

Windows Server 2012 R2 Remote Apps Publishing within the enterprise and beyond

Powered by Remote Desktop Services (RDS) in Windows Server 2012 R2, Microsoft RemoteApps allows users to seamlessly access applications published from any device. RDS offers one platform, one experience, and different access methods. In this lab, you will explore the Windows Server 2012 R2 Remote Applications Publishing and Various methods to connect with published resources.

Estimated time to complete this lab is 1 hour 15 minutes.

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Introduction

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EXPLORING WINDOWS SERVER 2012 R2 REMOTE APPLICATIONS USER EXPERIENCE

RemoteApp makes it possible for administrators to deliver remote applications to users instead of full desktops. Specifically, RemoteApp enables a straight forward publishing process that allows apps on session or VDI hosts to be provided to users, allows RemoteApps to run side by side with local apps and offers integration with the Start menu to make it simple for users to find and launch RemoteApps.

RD Web Access enables users to access RemoteApp and Desktop Connection through a web browser.

RD Gateway enables authorized users to connect to remote computers on a corporate network from any computer with an Internet connection.

RD Licensing manages the RDS client access licenses (RDS CALs) that are required for each device or user to connect to an RD Virtualization Host or RD Session Host.

RD Connection Broker provides users with access to RemoteApp and Desktop Connection.

RD Virtualization Host integrates with Hyper-V to provide VMs by using RemoteApp and Desktop Connection.

RD Session Host hosts Windows-based programs or the full Windows desktop for Remote Desktop Services clients. Users can connect to an RD Session Host server to run programs, to save files, and to use network resources on that server. Users can access an RD Session Host server by using Remote Desktop Connection or by using RemoteApp.

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TECHREADY

Scenario

Contoso, Ltd is pilot testing Session based Windows Server 2012 R2 Remote Desktop Services with Windows 7~~8~~ and Windows 8.1 for users. As the project lead, Mark has chosen to lab test session-based Remote Applications. He will complete this lab test from desktop running Windows 7~~8~~ and Windows 8.1. He will test the end user experience with RemoteApp environment.

HOL Setup ~~Usage~~:

Table 1—VMs Used in This Lab

Computer Name	Operating System	Roles	Credentials
Contoso-dc	Windows Server 2012 R2 Datacenter RTM (Eval)	AD DC DHCP DNS	Username: Administrator Password: P@ssword Domain: Contoso
Contoso-rds	Windows Server 2012 R2 Datacenter RTM (Eval)	Remote Desktop Services	Username: Administrator Password: P@ssword Domain: Contoso
Contoso-client1	Windows 7~~8~~	Client	Username: Mark Password: P@ssword Domain: Contoso
Contoso-client2	Windows 8.1	Client	Username: Mark

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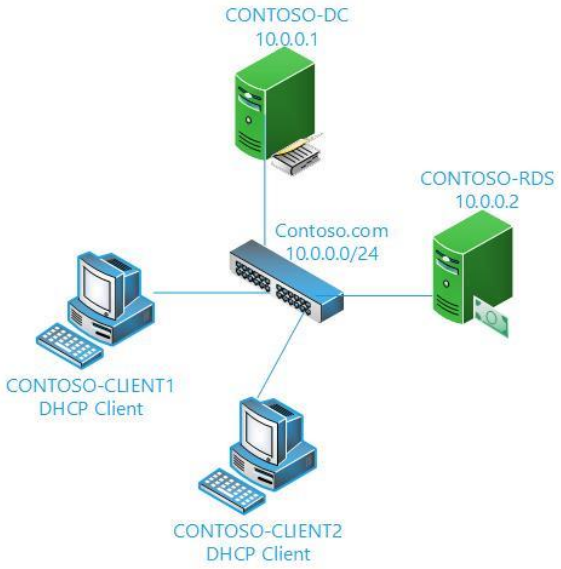
			Password: P@ssword Domain: Contoso

In this HOL, Remote Desktop Services 2012 R2 is deployed with:

- One computer running Windows Server 2012 R2 named contoso-dc that is configured as an intranet Dd~~d~~omain Cc~~c~~ontroller, Domain Name System (DNS) server, Dynamic Host Configuration Protocol (DHCP) server
- One intranet member server running Windows Server 2012 R2 named contoso-rds that is configured as the Remote Desktop Session Host (RD Session Host) server, Remote Desktop Web Access (RD Web Access) server and Remote Desktop Connection Broker (RD Connection Broker) server.
- Two member client computer running Windows 7~~8~~ named~~s~~ Contoso-Client1 and Windows 8.1 named Contoso-Client2 that is used to connect to the Session Virtualization deployment.

The Remote Desktop Services Publishing HOL consists of 1 subnet (10.0.0.0/24) that simulates an intranet named Contoso.com

Computers are connected to each other by using a Hyper-V virtual switch. See the following figure.



VM Snapshot details:

VM Name	Snapshot Name	Details
CONTOSO-DC	**CONTOSO-DC – Base**	Restore VM state to start. Good to go with exercise 1
CONTOSO-RDS	**CONTOSO-RDS –Base**	Restore VM state to start. Good to go with exercise 1
CONTOSO-CLIENT1	**CONTOSO-CLIENT1-Base**	Restore VM state to start. Good to go with exercise 1
CONTOSO-CLIENT2	**CONTOSO-CLIENT2-Base**	Restore VM state to start. Good to go with exercise 1

Exercise 1 – Verifying Session Based Remote Desktop Services Deployment

Objective: In this exercise user will verify different RDS roles installed on **CONTOSO-RDS** Server as part of Session based remote desktop deployment. User will get to know the various options available in RDS.

Machines for Exercise 1

Computer Name	Operating System	Roles	Credentials
Contoso-rds	Windows Server 2012 R2 Datacenter RTM (Eval)	Remote Desktop Services	Username: Administrator Password: P@ssword Domain: Contoso

Steps:

Complete the following steps on **CONTOSO-RDS:**

1. Press **Windows logo** key
2. Click **Server Manager** Tile
3. Click **Remote Desktop Services**

When you select Remote Desktop Services, there are three options in the middle pane:

- Overview
- Servers
- Collections

Let's look at all three of them one by one.

(A) Overview: Once the RDS Roles are installed on the Session Host servers and RD web access servers, we see the graphical description of our environment, the roles installed on each of the servers and the FQDN names of each server on the Overview page. From this page additional servers can be added to the deployment and additional roles can be installed using the Deployment overview/Deployment Servers right-click options. The Gateway and RD Licensing options are reflecting in Green as these roles are not yet installed but can be installed by clicking the Green Plus sign if needed.

1. Verify following roles\services are installed on **CONTOSO-RDS in 'Remote Desktop Services | Overview | DEPLOYMENT SERVERS**

    - **RD Connection Broker**
    - **RD Session Host**
    - **RD Web Access**

(B) Servers: The "Servers" page enables us to manage all of the servers belonging to the RDS Environment. A variety of remote management tasks can be performed including adding roles and features.

(C) Collections: Collection is a logical grouping of Remote Desktop Servers that provides either session-based or virtual machine-based (VDI) deployments.

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Note Each Session host that's a member of an RDS collection is limited to only participating in one collection.

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Exercise 2 – Accessing RDWeb first time

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Objective: Access RDWeb for the first time without any collections.

Machines for Exercise 2

Computer Name	Operating System	Roles	Credentials
Contoso-client1	Windows ~~7~~	Client	Username: Mark Password: P@ssword Domain: Contoso

Steps:

Complete the following steps on **CONTOSO-CLIENT1:**

4. Press **Ctrl +Alt +Del** for contoso-client1 VM
5. Login to **contoso-client1**
6. Open IE and enter https://contoso-rds.contoso.com/RDWeb
7. Click on **Continue to this website (not recommended)**
8. Enter below credentials
    a. Domain\user name: **Contoso\Mark**
    b. Password: **P@ssword**
9. Click on **Sign in** to login

10. Once you login to the portal you will see there is nothing published so far ~~for the~~for the user 'Mark' since no collection is created for the user.

Exercise 3 – Creating First Collection (Publish Remote Session host desktop)

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Objective: The starting point is to create a collection. When you used the Quick Start option a collection is created by default with some basic applications. In the collection you specify which servers are parts of the collection, which users will have access to the collection. To a collection, a Published Desktop or Published Applications can be assigned. When you create first collection, process will publish Session host server desktop for remote access. In this exercise we will publish Session host server itself by creating first collection.

Machines for Exercise 3

Computer Name	Operating System	Roles	Credentials
Contoso-rds	Windows Server 2012 R2 Datacenter RTM (Eval)	Remote Desktop Services	Username: Administrator Password: P@ssword Domain: Contoso
Contoso-client1	Windows 7	Client	Username: Mark Password: P@ssword Domain: Contoso

Steps:

Complete the following steps on **CONTOSO-RDS:**

1. Open the **Server Manager**, Click **Remote Desktop Services** and Select **Collections**
2. In **Collection** Section, Click **Tasks** and Select **Create Session Collection**
3. Type the **Name of the Collection as 'HOL Remote Applications'** and Click **Next**
4. Specify the **Contoso-rds.contoso.com** (Select it under **Server Pool** and move it to **Selected** area) as **RD Session Host Server** and Click **Next**
5. Specify **User Groups** as **CONTOSO\Domain Users** and Click **Next**
6. Uncheck the **User Profile Disk** and Click **Next**
7. **Confirm Selections** and Click **Create**

Note It will take several minutes for the creation process to complete.

8. Click **Close**

Complete the following steps on **CONTOSO-CLIENT1:**

1. Open IE and enter https://contoso-rds.contoso.com/RDWeb
2. Click on **Continue to this website (not recommended)**
3. Enter below credentials
   a. Domain\user name: **Contoso\Mark**
   b. Password: **P@ssword**
4. Click on **Sign in** to login

This time user 'Mark' has collection published with name '**HOL Remote Applications**'. Since it's a first collection, process has published Session host server desktop for remote access in '**HOL Remote Applications'.**

5. Click **HOL Remote Applications** collection
6. Click **Connect** in remote Desktop Connection
7. Enter 'Mark' Credentials as
   User name: **Mark**
   Password: **P@ssword**

User will connect with the Remote session host (**Contoso-rds.contoso.com**)

Note Close\Disconnect Remote Desktop services session on **CONTOSO-CLIENT1**
Close IE on **CONTOSO-CLIENT1**

Exercise 4 - Publish RemoteApp applications

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Objective: In session based deployments, a collection set can host a Remote Desktop or Remote Applications. So a combination of both is not possible. As soon as RemoteApp will be added to the 'Collection, the Remote Desktop will be removed. In this exercise we will publish ~~Paint,~~ Calculator, Paint, MS Office Word 2013, Office Excel 2013 and Notepad for domain users.

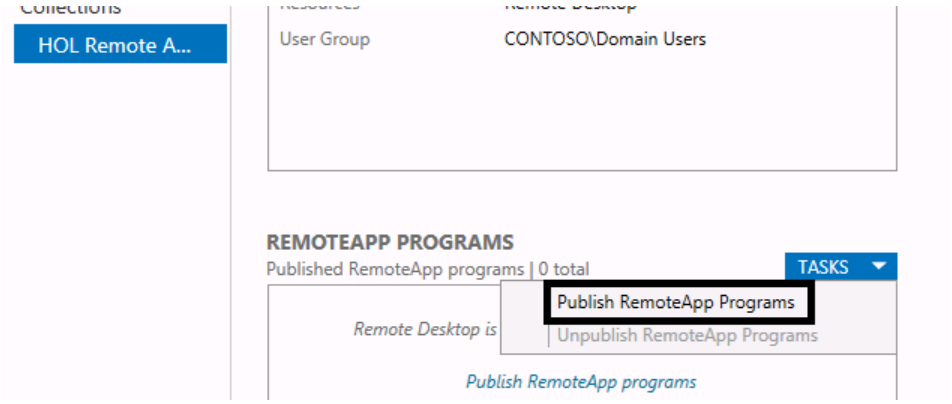
Machines for Exercise 4

Computer Name	Operating System	Roles	Credentials
Contoso-dc	Windows Server 2012 Datacenter RTM (Eval)	AD DC DHCP DNS	Username: Administrator Password: P@ssword Domain: Contoso
Contoso-rds	Windows Server 2012 Datacenter RTM (Eval)	Remote Desktop Services	Username: Administrator Password: P@ssword Domain: Contoso
Contoso-client1	Windows 7	Client	Username: Mark Password: P@ssword Domain: Contoso
Contoso-client2	Windows 8.1	Client	Username: Mark Password: P@ssword Domain: Contoso

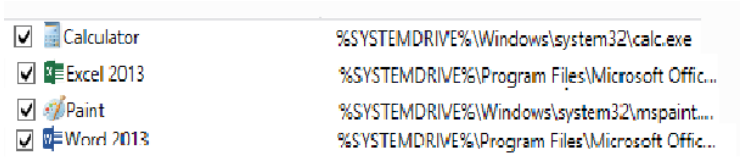
Steps:

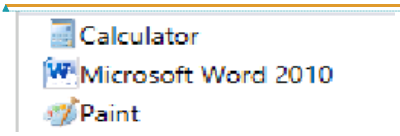
Complete the following steps on **CONTOSO-RDS:**

1. Select **'HOL Remote Applications'** (Name of the Collection) under Collections Tile. Click on **Publish Remote App Program** from **TASKS** under **REMOTEAPP PROGRAMS** section



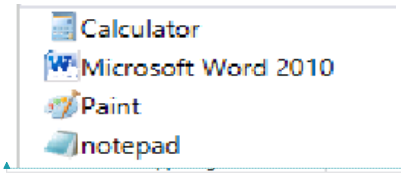
4. In RemoteApp Programs, Select **'Calculator'**, **'Excel 2013'** **'Paint'** and '~~Microsoft~~ **Word 2013~~0~~'**

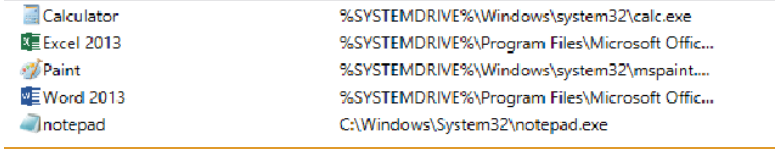




Note Most of the installed applications will be available in the list. We can add unlisted applications by clicking '**Add**' and selecting the .exe file for the application.

2. Click **Add**. Give path as **'\\Contoso-rds.contoso.com\c$\windows\system32\notepad.exe'** and click **Open**. This step will add notepad in the RemoteApp Programs list
3. Click Next
4. **Confirmation** and Click **Publish**





This process once completed succesfully will publish Remote Applications for domain users under the collection name as '**HOL Remote Applications**'. ~~we~~We should able to see screen like below:

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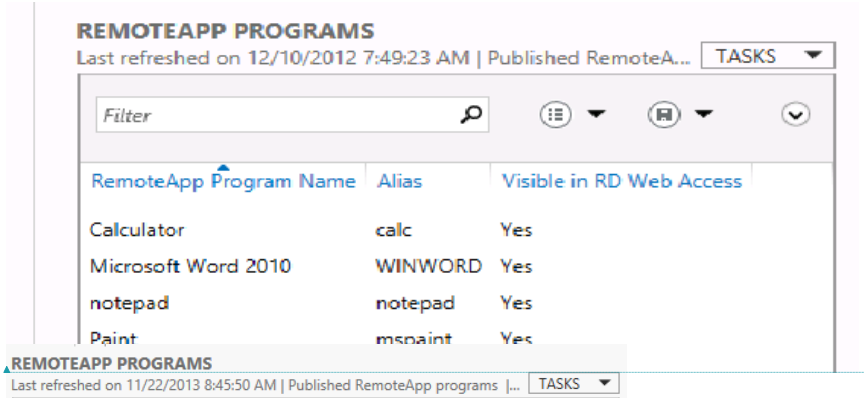

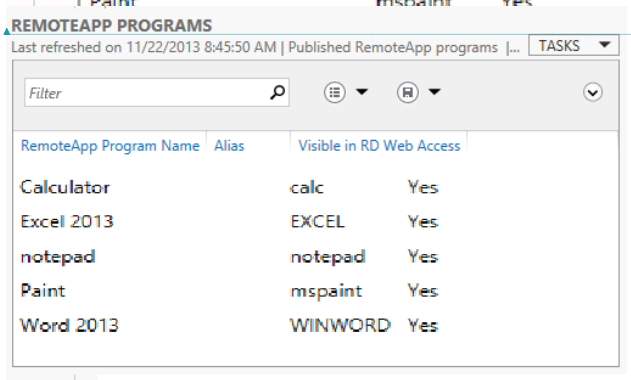

5. Click **Close**

Exercise 5— Methods for Accessing Published Applications

There are two supported methods of accessing sessions and RemoteApps that are part of a session collection:

1. **Web Access** - RDWeb
2. **WebFeed** ~~(Remote~~(Remote Applications and Desktop Connections) – supported on windows 7, windows 8 and later. ~~and windows 8~~

   - Remote Applications and desktop tool – using email ID – feature supported only on windows 8 and later.

   - Remote Desktop App – from Windows 8 Application Store – feature supported only on Windows 8 and later. ~~8~~

~~Exercise~~ 5 (A) - Web Based – RDWeb

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Objective: The Web Access method can be used to access (launch) RemoteApps or Desktop Sessions. In this exercise user will login to the web console from windows 7 and windows 8.1 client machines to access the published resources.

Machines for Exercise 5 (A)

Computer Name	Operating System	Roles	Credentials
Contoso-client1	Windows 7	Client	Username: Mark Password: P@ssword Domain: Contoso
Contoso-client2	Windows 8.1	Client	Username: Mark Password: P@ssword Domain: Contoso

Steps:

Complete the following steps on **CONTOSO-CLIENT1** and **CONTOSO-CLIENT2:**
(Follow the same steps for both the client machines)

1. Press **Ctrl +Alt +Del** for **CONTOSO-CLIENT1** VM
2. Login to **CONTOSO-CLIENT1**
3. Open IE and enter https://contoso-rds.contoso.com/RDWeb
4. Click on **Continue to this website (not recommended)**
5. Enter below credentials
    a. Domain\user name: **Contoso\Mark**
    b. Password: **P@ssword**
6. Click on **Sign in** to login

Once you login to the portal as user 'Mark' you will see 54 applications are published and available for users to access.

7. Click **Calculator**
8. Click **Connect**

User should able to connect and use the Calculator

PIs. click on other published applications to launch them remotely

9. Close IE once done testing the other applications launch.

5 (B) - -RemoteApp and Desktop Connections

Objective: In Windows 7 and Windows 8\8.1, you have the ability to connect to a Windows Server 2012 RDS environment and retrieve a list of Remote Apps assigned to the users. **RemoteApp and Desktop Connections** allow RemoteApps to be deployed and accessed on the client machine's Start menu (Windows 7) or Start screen (Windows 8\8.1). In this exercise user will configure '**RemoteApp and Desktop Connections**' and will access the published resources.

RemoteApp and Desktop Connections

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To configure the connection you had to enter the URL of the server hosting the RD Web Access role. This URL consists of the hostname or fully qualified domain name and the RD Web Access folder followed by **/Feed/webfeed.aspx**.

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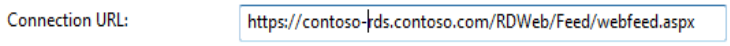
Machines for Exercise 5 (B)

Computer Name	Operating System	Roles	Credentials
Contoso-client1	Windows 7	Client	Username: Mark Password: P@ssword Domain: Contoso
Contoso-client2	Windows 8.1	Client	Username: Mark Password: P@ssword Domain: Contoso

Steps:

Complete the following steps on **CONTOSO-CLIENT1** and **CONTOSO-CLIENT2:**
(Follow the same steps for both the client machines)

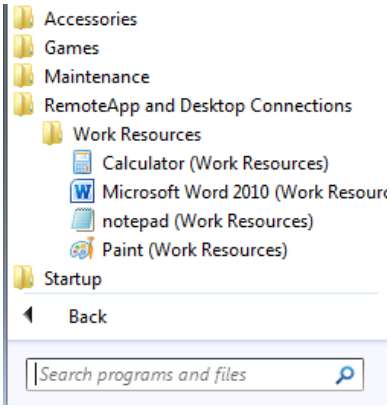
1. Press **Ctrl +Alt +Del** for **CONTOSO-CLIENT1** VM
2. Login to **CONTOSO-CLIENT1**
3. Press **Windows logo key + R** and type **Control Panel**
4. Click
5. Enter connection URL as '**https: //contoso-rds.contoso.com/RDWeb/Feed/webfeed.aspx**'



6. Click **Next**
7. Enter user credentials as
   User name: **Mark**
   Password: **P@ssword**
8. Click **OK.** (This step will pull 4 available programs for the user from the server)
9. Click **Finish**

Complete the following steps on **CONTOSO-CLIENT1:**

1. Press **Windows logo key**
2. Click **All Programs**
3. Click **RemoteApp and Desktop Connections**
4. Click **Work Resources**



Click published applications to launch them remotely.

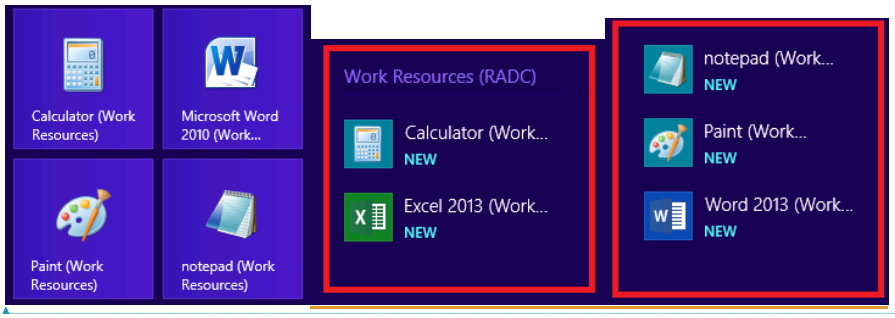
Complete the following steps on **CONTOSO-CLIENT2:**

~~5.~~1. Press **Windows logo key**

2. On the Start Screen, ~~Published 4 applications should be visible as tile for the user~~click the down arrow

3. 5 new ~~5~~ published Apps should be visible under '**Work Resources (RADC)**' as **NEW** Applications

~~6.~~



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Click published applications to launch them remotely.

5 (C) – Accessing Remote Apps using e-mail discovery (Windows 8 supported)

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Objective: With Windows 8, we can configure RemoteApp access using e-mail discovery (so users don't have to type the whole URL anymore). In this exercise, user will access RemoteApps by entering and creating connection using e-mail discovery.

Note we don't need Exchange to configure RemoteApp with e-email discovery.

Machines for Exercise 5 (C)

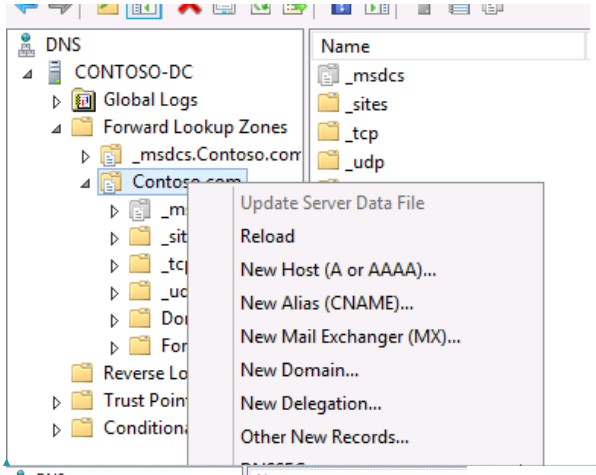
Computer Name	Operating System	Roles	Credentials
Contoso-dc	Windows Server 2012 Datacenter RTM (Eval)	AD DC DHCP DNS	Username: Administrator Password: P@ssword Domain: Contoso
Contoso-client2	Windows 8.1	Client	Username: Mark Password: P@ssword Domain: Contoso

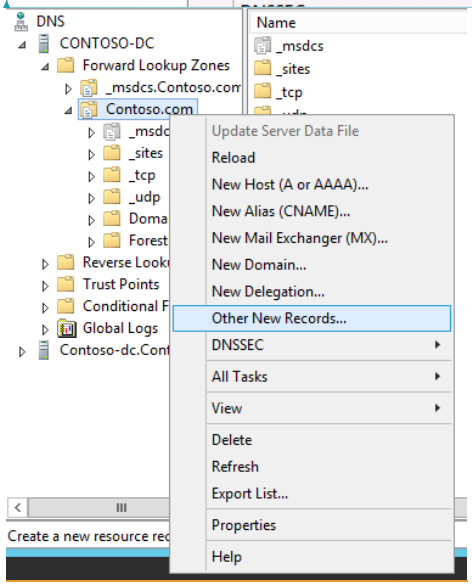
Steps:

Complete the following steps on **CONTOSO-DC:**

- **Configure DNS Feed Lookup for RemoteApp and Desktop Connections**

1. Press **Ctrl+Alt+Del** for **CONTOSO-DC** VM
2. Login to **CONTOSO-DC** as Domain Administrator (pls. use the credentials given in above table)
3. In **Server Manager**, Click **DNS**. Right Click **CONTOSO-DC** (under **SERVERS)** and Select **DNS Manager**
4. In DNS Manager, Under **CONTOSO-DC**, right click **Contoso.com**
5. Select **Other New Records**





6. Click **Text (TXT),** and then click **Create Record**.

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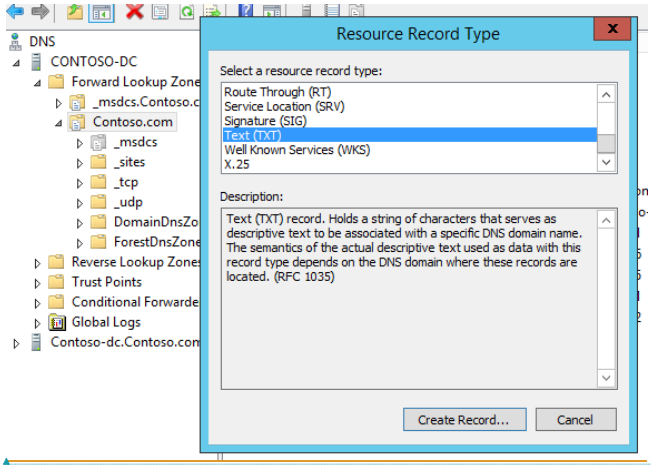
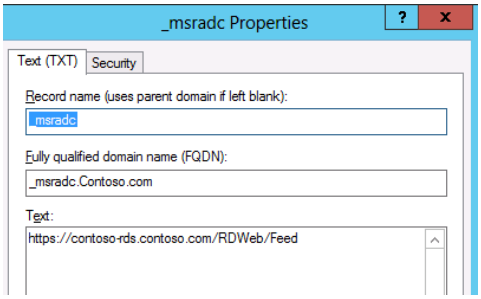


6.

7. In the **Record name** (use parent domain if left blank) box, type **_msradc**
8. In the Text box, type **https://contoso-rds.contoso.com/RDWeb/Feed**



9. Click OK

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Complete the following steps on **CONTOSO-CLIENT2:**

1. Press **Ctrl +Alt +Del** for **CONTOSO-CLIENT2** VM
2. Login to **CONTOSO-CLIENT2**
3. Press **Windows logo key + R** and type **Control Panel**
4. Click

Note If there are any existing connections in RemoteApp and Desktop Connections. Pls. remove it before going to step 5. Click **Remove** in **Date Created section,** to remove the connection.

5. Enter Email Address as **mark@contoso.com**

6. Click **Next.**

Please verify if connection URL is been resolved correctly from DNS as **'https://contoso-rds.contoso.com/Rdweb/Feed'**

7. Click **Next**
8. Enter user credentials as
   User name: **Mark**
   Password: **P@ssword**
9. Click **Finish**
10. Click **OK.** (This step will pull 4 available programs for the user from the server)
11. Click **Finish**
12. Press **Windows logo key**
13. On Start Screen, Published 4 applications should be visible as tile for the user

    Click published applications to launch them remotely.

Note Remove connections in RemoteApp and Desktop before going to the next Exercise. Click **Remove** in **Date Created section,** to remove the connection.

5 (D)—Accessing RemoteApps from Windows 8\8.1 Remote Desktop Modern App

Objective: With the Remote Desktop app, user can connect to a remote PC and Remote Applications from almost anywhere. Read moreFew of the features that come with Remote Desktop App from store include:

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- Access work resources published via RemoteApp and Desktop Connections.
- See all your remote connections in the home screen and open them with a single touch.
- Connect to multiple remote desktops at the same time. Keep an eye on different sessions while you multitask by snapping the resources

Remote Desktop App Download Link:

http://apps.microsoft.com/windows/en-us/app/remote-desktop/051f560e-5e9b-4dad-8b2e-fa5e0b05a480

Note Remote Desktop App is already been installed from Windows Store to the CONTOSO-CLIENT2 to save time. Installing the App from internet using Microsoft Account (Live account previously is a simple process and not covered in this HOL)

In this exercise user will create connection and access resources from Remote Desktop App downloaded from online Store.

Machines for Exercise 5 (D)

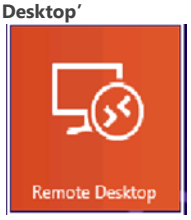
Computer Name	Operating System	Roles	Credentials
Contoso-client2	Windows 8.1	Client	Username: Mark Password: P@ssword Domain: Contoso

Steps:

Complete the following steps on **CONTOSO-CLIENT2:**

Remote Desktop App is pinned on the Start screen. You ~~otherwise you~~ can also search for the application using Search feature in Windows 8.1

1. Press **Windows logo key**
2. Select '**Remote Desktop**'



~~3.~~ Click '**Access RemoteApp and Desktop Connections**'~~**Access RADC resources by selecting the Access RemoteApp and desktops option from the Settings charm (swipe right and tap on Settings).**~~

3.

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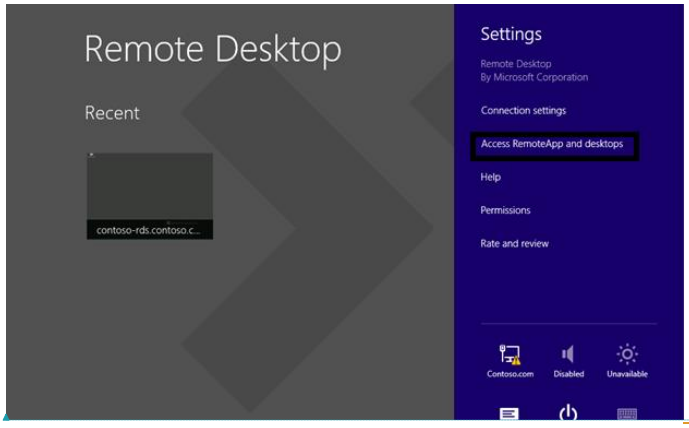

This option open the **RemoteApp and Desktop Connections** screen, allowing you to subscribe to the new resources by using your email address or a URL provided the administrator.

4. Click the link **Access RemoteApp and Desktop Connections**
4.5. Enter **Email address or URL** (**mark@contoso.com** or **https://contoso-rds.contoso.com/RDWeb/Feed/webfeed.aspx**) and then tap Connect.

Note: To subscribe by using your email address, you must complete Exercise 5 (C) 'Configure DNS Feed Lookup for RemoteApp and Desktop Connections' section.

5.6. Click **OK~~Yes~~**
6.7. Enter credentials as:
User name: Mark
Password: **P@ssword**

You may also allow the Remote Desktop Windows Store app to remember your credentials so you don't have to provide them every time you launch an application or connect to a desktop associated with this feed

7.8. Click **OK**
8.9. You have now subscribed to the feed provided by your administrator. In this case, you can now access five~~four~~ RemoteApp programs (apps) directly from Home page of the Remote Desktop Windows Store app

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~~9.~~10. To launch an application, tap on its corresponding tile. RemoteApp is always opened on the desktop to provide a seamless experience with other desktop apps available on your system

~~You can skip the restore snapshot below and continue with the additional HOL exercise.~~

~~**Please restore snapshots to reset the VMs state:**~~

~~**VM Name**~~	~~**Snapshot Name**~~	~~**Details**~~
~~**CONTOSO-DC**~~	~~**CONTOSO-DC – Base**~~	~~Restore VM state to start. Good to go with exercise 1~~
~~**CONTOSO-RDS**~~	~~**CONTOSO-RDS –Base**~~	~~Restore VM state to start. Good to go with exercise 1~~
~~**CONTOSO-CLIENT1**~~	~~**CONTOSO-CLIENT1-Base**~~	~~Restore VM state to start. Good to go with exercise 1~~
~~**CONTOSO-CLIENT2**~~	~~**CONTOSO-CLIENT2-Base**~~	~~Restore VM state to start. Good to go with exercise 1~~

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Additional HOL Exercise (if time permits)

1. Managing Published Applications

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Objective: To arrange Applications in folder

Machines for Exercise 1

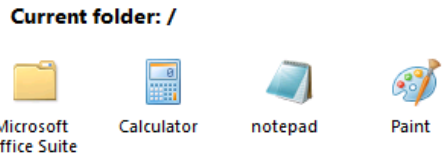
Computer Name	Operating System	Roles	Credentials
Contoso-rds	Windows Server 2012 Datacenter RTM (Eval)	Remote Desktop Services	Username: Administrator Password: P@ssword Domain: Contoso
Contoso-client1	Windows 7	Client	Username: Mark Password: P@ssword Domain: Contoso

Steps:
Complete the following steps on **CONTOSO-RDS:**

1. In **Server Manager**, Click **Remote Desktop Services**
2. Click **HOL Remote Applications**
3. Right click ~~Microsoft~~ **Word 20130**
4. Click **Edit properties**
5. On General Tab, Type **Microsoft Office Suite** under **RemoteApp program folder** field
6. Click **Apply**
7. Click **Ok**

Complete the following steps on **CONTOSO-CLIENT1:**

1. Login to **CONTOSO-CLIENT12** Open IE and enter **https://contoso-rds.contoso.com/RDWeb**
2. Enter user credentials as :
3. Domain\User: **contoso\mark**
4. Password: **P@ssword**
5. This time user should able to see one new folder folder named as '**Microsoft Office Suite**'



6.
7. Click **Microsoft Office Suite** to access ~~Microsoft~~ **Word 20130** Remote Application.
8. Click ~~Microsoft~~ **Word 20130** to launch the application

2. Managing Access for Published Applications\Remote Program in Collection

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Objective: To assign rights to published Remote Application\Program to users. In this exercise, we will restrict user 'Mark' to access specific program

Machines for Exercise 3

Computer Name	Operating System	Roles	Credentials
Contoso-rds	Windows Server 2012 Datacenter RTM (Eval)	Remote Desktop Services	Username: Administrator Password: P@ssword Domain: Contoso
Contoso-client1	Windows 7	Client	Username: Mark Password: P@ssword Domain: Contoso

Steps:
Complete the following steps on **CONTOSO-RDS:**

1. In **Server Manager**, Click **Remote Desktop Services**
2. Click **HOL Remote Applications**
3. Right click **Microsoft Word 2013~~0~~**
4. Click **Edit properties**
5. On **User Assignment** Tab, Select **Only specified users and groups**
6. Add **CONTOSO\John** in Users and groups (we are actually restricting user 'Mark' here since we are making program access exclusive to user 'John')
7. Click **Apply**
8. Click **Ok**

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Complete the following steps on **CONTOSO-CLIENT1:**

1. Login to **CONTOSO-CLIENT1**
2. Open IE and enter **https://contoso-rds.contoso.com/RDWeb**
3. Enter user credentials as :
   Domain\User: **contoso\mark**
   Password: **P@ssword**
4. User 'Mark' should not able to see **'~~Microsoft~~ Word 2013~~0~~'** in Remote programs

3. Managing Access for Collection

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Objective: To assign rights to published Remote Application\Program to users. In this exercise, we will restrict user 'Mark' to access specific program

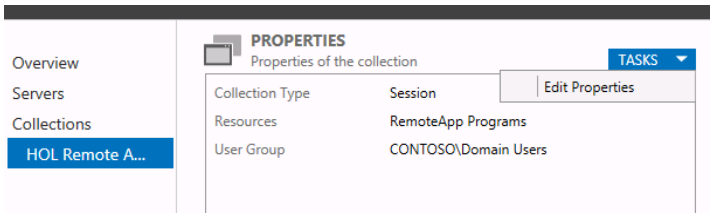
Machines for Exercise 2

Computer Name	Operating System	Roles	Credentials
Contoso-rds	Windows Server 2012 Datacenter RTM (Eval)	Remote Desktop Services	Username: Administrator Password: P@ssword Domain: Contoso
Contoso-client1	Windows 7	Client	Username: Mark Password: P@ssword Domain: Contoso Username: John Password: P@ssword Domain: Contoso

Steps:

Complete the following steps on **CONTOSO-RDS:**

9. In **Server Manager**, Click **Remote Desktop Services**
10. Click **HOL Remote Applications**
11. Click **TASKS** for the collection



12. Click **Edit properties**
13. On **User Groups** Tab, Click **Add**
14. Enter **John** in **Enter the object names to select user groups**
15. Add **CONTOSO\John** and Click **OK**
16. Select **CONTOSO\Domain Users** and Click **Remove**

    This process will assign exclusive rights to user 'John' on the collection and remove the access rights for all domain users.
17. Click **Apply**
18. Click **Ok**

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Complete the following steps on **CONTOSO-CLIENT1:**

5. Login to **CONTOSO-CLIENT1**
6. Open IE and enter **https://contoso-rds.contoso.com/RDWeb**
7. Enter user credentials as :

   Domain\User: **contoso\mark**

   Password: **P@ssword**
8. Click **Sign in**

   User 'Mark' should not able to see **HOL Remote Applications** Collection at all since rights are been removed from domain users.
9. Close IE
10. Open IE and enter **https://contoso-rds.contoso.com/RDWeb**
11. Enter user credentials as :

    Domain\User: **contoso\john**

    Password: **P@ssword**
12. If you are presented with the following error "**Another user of your computer is currently using this connection**", click the ~~little~~ up arrow in the taskbar, click the **Connected to RemoteApp and Desktop Connections**, and then click **Disconnect all connections**

~~12.~~13. Click **Sign in**

    User 'John' should still able to see published applications since he has given exclusive rights to '**HOL Remote Applications'** Collection on RDS Server.

TECHREADY