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.
Introduction

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 straightforward 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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**Scenario** Contoso, Ltd is pilot testing Session based Windows Server 2012 R2 Remote Desktop Services with Windows 7 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 and Windows 8.1. He will test the end user experience with RemoteApp environment.

**HOL Setup Usage:**

**Table 1—VMs Used in This Lab**

<table>
<thead>
<tr>
<th>Computer Name</th>
<th>Operating System</th>
<th>Roles</th>
<th>Credentials</th>
</tr>
</thead>
</table>
| 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        | Client                     | Username: Mark  
Password: P@ssword  
Domain: Contoso |
| Contoso-client2 | Windows 8.1      | Client                     | Username: Mark |

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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 domain controller, 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 named 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

<table>
<thead>
<tr>
<th>VM Name</th>
<th>Snapshot Name</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTOSO-DC</td>
<td>CONTOSO-DC – Base</td>
<td>Restore VM state to start.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Good to go with exercise 1.</td>
</tr>
<tr>
<td>CONTOSO-RDS</td>
<td>CONTOSO-RDS –Base</td>
<td>Restore VM state to start.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Good to go with exercise 1.</td>
</tr>
<tr>
<td>CONTOSO-CLIENT1</td>
<td>CONTOSO-CLIENT1-Base</td>
<td>Restore VM state to start.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Good to go with exercise 1.</td>
</tr>
<tr>
<td>CONTOSO-CLIENT2</td>
<td>CONTOSO-CLIENT2-Base</td>
<td>Restore VM state to start.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Good to go with exercise 1.</td>
</tr>
</tbody>
</table>
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**

<table>
<thead>
<tr>
<th>Computer Name</th>
<th>Operating System</th>
<th>Roles</th>
<th>Credentials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contoso-rds</td>
<td>Windows Server 2012 R2 Datacenter RTM (Eval)</td>
<td>Remote Desktop Services</td>
<td>Username: Administrator Password: P@ssword Domain: Contoso</td>
</tr>
</tbody>
</table>

**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.
Note Each Session host that’s a member of an RDS collection is limited to only participating in one collection.
Exercise 2 – Accessing RDWeb first time

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

Machines for Exercise 2

<table>
<thead>
<tr>
<th>Computer Name</th>
<th>Operating System</th>
<th>Roles</th>
<th>Credentials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contoso-client1</td>
<td>Windows 7</td>
<td>Client</td>
<td>Username: Mark</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Password: P@ssword</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Domain: Contoso</td>
</tr>
</tbody>
</table>

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 user ‘Mark’ since no collection is created for the user.
Exercise 3 – Creating First Collection (Publish Remote Session host desktop)

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

<table>
<thead>
<tr>
<th>Computer Name</th>
<th>Operating System</th>
<th>Roles</th>
<th>Credentials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contoso-rds</td>
<td>Windows Server 2012 R2 Datacenter RTM (Eval)</td>
<td>Remote Desktop Services</td>
<td>Username: Administrator</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Password: P@ssword</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Domain: Contoso</td>
</tr>
<tr>
<td>Contoso-client1</td>
<td>Windows 7</td>
<td>Client</td>
<td>Username: Mark</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Password: P@ssword</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Domain: Contoso</td>
</tr>
</tbody>
</table>

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\username: 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
**Note** Close IE on CONTOSO-CLIENT1
**Exercise 4 - Publish RemoteApp applications**

**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, MS Office Word 2013, Office Excel 2013 and Notepad for domain users.

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

**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

![Image of RemoteApp settings](image-url)
4. In RemoteApp Programs, Select 'Calculator', 'Excel 2013', 'Paint' and 'Microsoft Word 2013'.

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 successfully will publish Remote Applications for domain users under the collection name as 'HOL Remote Applications'. We should be able to see a screen like below:
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

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

<table>
<thead>
<tr>
<th>Computer Name</th>
<th>Operating System</th>
<th>Roles</th>
<th>Credentials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contoso-client1</td>
<td>Windows 7</td>
<td>Client</td>
<td>Username: Mark</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Password: P@ssword</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Domain: Contoso</td>
</tr>
<tr>
<td>Contoso-client2</td>
<td>Windows 8.1</td>
<td>Client</td>
<td>Username: Mark</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Password: P@ssword</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Domain: Contoso</td>
</tr>
</tbody>
</table>

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\username: 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

Pls. 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 8.1, 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 Connection allow RemoteApps to be deployed and accessed on the client machine’s Start menu (Windows 7) or Start screen (Windows 8.1). In this exercise user will configure ‘RemoteApp and Desktop Connections’ and will access the published resources.
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`.

## Machines for Exercise 5 (B)

<table>
<thead>
<tr>
<th>Computer Name</th>
<th>Operating System</th>
<th>Roles</th>
<th>Credentials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contoso-client1</td>
<td>Windows 7</td>
<td>Client</td>
<td>Username: Mark</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Password: P@ssword</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Domain: Contoso</td>
</tr>
<tr>
<td>Contoso-client2</td>
<td>Windows 8.1</td>
<td>Client</td>
<td>Username: Mark</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Password: P@ssword</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Domain: Contoso</td>
</tr>
</tbody>
</table>

### 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’

   **Connection URL:** [https://contoso-rds.contoso.com/RDWeb/Feed/webfeed.aspx](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**:

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 published Apps should be visible under **Work Resources (RADC)** as NEW Applications
4. 
5. 
6. 

<table>
<thead>
<tr>
<th>Work Resources (RADC)</th>
<th>notepad (Work Resources)</th>
<th>Paint (Work Resources)</th>
<th>Excel 2013 (Work Resources)</th>
<th>Word 2013 (Work Resources)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="calculator_icon.png" alt="Calculator" /></td>
<td><img src="word_icon.png" alt="Microsoft Word 2010" /></td>
<td><img src="paint_icon.png" alt="Paint" /></td>
<td><img src="excel_icon.png" alt="Excel 2013" /></td>
<td><img src="word_icon.png" alt="Word 2013" /></td>
</tr>
</tbody>
</table>

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- Font: (Default) Segoe UI, 9.5 pt, Font color: Custom Color(RGB(66,66,66))
- Font: Bold
- Font: Not Bold
- Font: Not Bold
- List Paragraph, No bullets or numbering
- Indent: Left: 0.5", No bullets or numbering

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- Font: (Default) Segoe UI, 20 pt, Font color: Custom Color(RGB(0,84,140))
5 (C) – Accessing Remote Apps using e-mail discovery (Windows 8 supported)

**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-mail discovery.

**Machines for Exercise 5 (C)**

<table>
<thead>
<tr>
<th>Computer Name</th>
<th>Operating System</th>
<th>Roles</th>
<th>Credentials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contoso-dc</td>
<td>Windows Server 2012 Datacenter RTM (Eval)</td>
<td>AD DC, DHCP, DNS</td>
<td>Username: Administrator Password: P@ssword Domain: Contoso</td>
</tr>
<tr>
<td>Contoso-client2</td>
<td>Windows 8 1.1</td>
<td>Client</td>
<td>Username: Mark Password: P@ssword Domain: Contoso</td>
</tr>
</tbody>
</table>

**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**.
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**
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 RemoteApp and Desktop Connections

**Note** If there are any existing connections in RemoteApp and Desktop Connections, please 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.

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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 more few of the features that come with Remote Desktop App from store include:
- 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)**

<table>
<thead>
<tr>
<th>Computer Name</th>
<th>Operating System</th>
<th>Roles</th>
<th>Credentials</th>
</tr>
</thead>
</table>
| Contoso-client2 | Windows 8.1       | Client| Username: Mark  
Password: P@ssword  
Domain: Contoso |

**Steps:**
Complete the following steps on **CONTOSO-CLIENT2**:
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).
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
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.

6. Click OK
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.

8. Click OK
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.
9. 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:

<table>
<thead>
<tr>
<th>VM Name</th>
<th>Snapshot Name</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTOSO-DC</td>
<td>CONTOSO-DC – Base</td>
<td>Restore VM state to start.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Good to go with exercise 1.</td>
</tr>
<tr>
<td>CONTOSO-RDS</td>
<td>CONTOSO-RDS – Base</td>
<td>Restore VM state to start.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Good to go with exercise 1.</td>
</tr>
<tr>
<td>CONTOSO-CLIENT1</td>
<td>CONTOSO-CLIENT1-Base</td>
<td>Restore VM state to start.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Good to go with exercise 1.</td>
</tr>
<tr>
<td>CONTOSO-CLIENT2</td>
<td>CONTOSO-CLIENT2-Base</td>
<td>Restore VM state to start.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Good to go with exercise 1.</td>
</tr>
</tbody>
</table>
Additional HOL Exercise (if time permits)

1. Managing Published Applications

Objective: To arrange Applications in folder

### Machines for Exercise 1

<table>
<thead>
<tr>
<th>Computer Name</th>
<th>Operating System</th>
<th>Roles</th>
<th>Credentials</th>
</tr>
</thead>
</table>
| 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
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-CLIENT1 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 named as ‘Microsoft Office Suite’

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

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

<table>
<thead>
<tr>
<th>Computer Name</th>
<th>Operating System</th>
<th>Roles</th>
<th>Credentials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contoso-rds</td>
<td>Windows Server 2012 Datacenter RTM (Eval)</td>
<td>Remote Desktop Services</td>
<td>Username: Administrator Password: P@ssword Domain: Contoso</td>
</tr>
<tr>
<td>Contoso-client1</td>
<td>Windows 7</td>
<td>Client</td>
<td>Username: Mark Password: P@ssword Domain: Contoso</td>
</tr>
</tbody>
</table>

TECHREADY
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
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

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

3. Managing Access for Collection

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

<table>
<thead>
<tr>
<th>Computer Name</th>
<th>Operating System</th>
<th>Roles</th>
<th>Credentials</th>
</tr>
</thead>
</table>
| Contoso-rds     | Windows Server 2012 Datacenter RTM (Eval) | Remote Desktop Services | Username: Administrator
|                 |                    |                        | Password: P@ssword
|                 |                    |                        | Domain: Contoso
| Contoso-client1 | Windows 7          | Client                 | 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

![Image](https://example.com/image.png)

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

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 have 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
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.