

This document assumes that you have already installed and configured the Remote Desktop Services role. The server I will be using for this demonstration is named "PCFS3". I am using it for all of the RD services to eliminate confusion. Settings that are shown here will be different for other environments but the accompanying screen shots will provide accurate information on the deployment of a RemoteApp.

General Overview

This is the current view from the Server Manager screen displaying the RDS role after configuration. During the creation of this document, licensing has not been set up yet but that will not change anything being shown. The "tasks" button under deployment servers (cut off in image) will allow you to configure which servers you want to host those deployment properties. The green image under deployment overview (see RD Licensing), notifies you that the deployment properties have not yet been configured and clicking on it will open the ability to complete the setup.

The screenshot displays the Windows Server Manager interface for Remote Desktop Services. The left sidebar shows navigation options: Overview (selected), Servers, Collections, and Premier Cooper... The main content area is titled "GET STARTED WITH REMOTE DESKTOP SERVICES" and includes a "QUICK START" section with three steps: 1. Set up a Remote Desktop Services deployment, 2. Add RD Virtualization Host servers, and 3. Create virtual desktop collections. Below this is the "DEPLOYMENT OVERVIEW" section, which shows a diagram of the RDS architecture. The diagram includes RD Web Access, RD Gateway, RD Licensing (with a green plus icon indicating it is not fully configured), RD Connection Broker, RD Virtualization Host, and RD Session Host. The RD Session Host is highlighted with a light blue box and labeled "Premie...". To the right of the diagram is the "DEPLOYMENT SERVERS" table, which lists the installed role services for the server PCFS3.

Server FQDN	Installed Role Service
PCFS3.	RD Connection Broker
PCFS3.	RD Session Host
PCFS3.	RD Gateway
PCFS3.	RD Web Access

The next image shows the Servers tab. This tab shows that all necessary processes are running and the BPA has been run with minimal warnings. The warning under the Best Practice Analyzer is acceptable if

a Root CA server has not been configured. This is only to prevent the SSL error on the RDWeb page.

The screenshot displays the Windows Server Remote Desktop Services console. On the left is a navigation pane with 'Servers' selected. The main area is divided into several sections:

- Servers:** A table listing services for server PCFS3.

Server Name	Display Name	Service Name	Status	Start Type
PCFS3	Remote Desktop Management	RDMS	Running	Automatic (Delayed Start)
PCFS3	RemoteApp and Desktop Connection Management	TScPubRPC	Running	Automatic
PCFS3	Remote Desktop Connection Broker	Tssdis	Running	Automatic
PCFS3	Remote Desktop Services	TermService	Running	Manual
PCFS3	Remote Desktop Gateway	TSGateway	Running	Automatic (Delayed Start)
- BEST PRACTICES ANALYZER:** Shows 1 warning or error.

Server Name	Severity	Title	Category
PCFS3	Warning	RD Gateway must be configured to use an SSL certificate signed by a trusted certification authority	Configuration
- PERFORMANCE:** Shows CPU Usage (0.65% - 3.26%) and Available Memory (5.88 GB - 6.13 GB) over a 24-hour period. Below the charts is a table of alerts.

Server Name	Counter Status	CPU Alert Count	Memory Alert Count	First Occurrence	Last Occurrence
PCFS3	On	0	0	-	-
- ROLES AND FEATURES:** Lists installed roles and features.

Server Name	Name	Type	Path
PCFS3	Remote Desktop Services	Role	Remote Desktop Services
PCFS3	Remote Desktop Session Host	Role Service	Remote Desktop Services\Remote Desktop Session Host
PCFS3	Remote Desktop Gateway	Role Service	Remote Desktop Services\Remote Desktop Gateway
PCFS3	Remote Desktop Connection Broker	Role Service	Remote Desktop Services\Remote Desktop Connection Broker
PCFS3	Remote Desktop Web Access	Role Service	Remote Desktop Services\Remote Desktop Web Access

The Collections tab is where you will configure your group name for organizing your deployed programs. Because I am only using one collection, I will just name it Premier Cooperative. In the Connections area, you will see all users that are currently logged on and using the RD Service.

The screenshot displays the Citrix Studio interface with three main panels:

- COLLECTIONS**: Located at the top, it shows a table with one entry: Premier Cooperative, Session 1, RemoteApp Programs. The table headers are Name, Type, Size, Resource Type, and Status. A filter bar and icons for list, refresh, and search are present above the table.
- HOST SERVERS**: Located at the bottom left, it shows a table with headers: Server Name, Type, Virtual Desktops, Allow New Connections, and a dropdown menu labeled TASKS. A filter bar and icons for list, refresh, and search are present above the table.
- CONNECTIONS**: Located at the bottom right, it shows a table with headers: Collection Name, Server FQDN, and User. A filter bar and icons for list, refresh, and search are present above the table.

Before we configure a Collection, we will want to take a look at the “Edit deployment properties” task under the Tasks button for Collections. RD Web Access is where you will want to confirm the web address for the program deployment page. This by default is [https://\\$SERVERNAME/Rdweb](https://$SERVERNAME/Rdweb). I will not go over configuring the IIS settings because that will also vary by environment. Now you can begin to create the collection. Under the previous Tasks button, you can also choose Create Session Collection.

This will allow you to assign permissions and other settings that you may want for the new collection.

Create Collection

Name the collection

Collection Name

- RD Session Host
- User Groups
- User Profile Disks
- Confirmation
- Progress

A session collection name is displayed to users when they log on to a Remote Desktop Web Access server.

Name:

Description (optional):

< Previous Next > Create Cancel

In the previous screen shots, you can see my Collection name, Type and size that I have already created. After you have created your collection you will have another tab under Collections in the left column. When you are looking at your collection, you will see the deployed programs, current users (active and disconnected)

PROPERTIES
Properties of the collection

Collection Type: Session

Resources: RemoteApp Programs

User Group: Premier Cooper...

REMOATEAPP PROGRAMS
Last refreshed on 7/27/2015 2:19:28 PM | Published RemoteApp programs | 2 total

RemoteApp Program Name	Alias	Visible in RD Web Access
Calculator	calc	Yes
ExamHost	exh	Yes

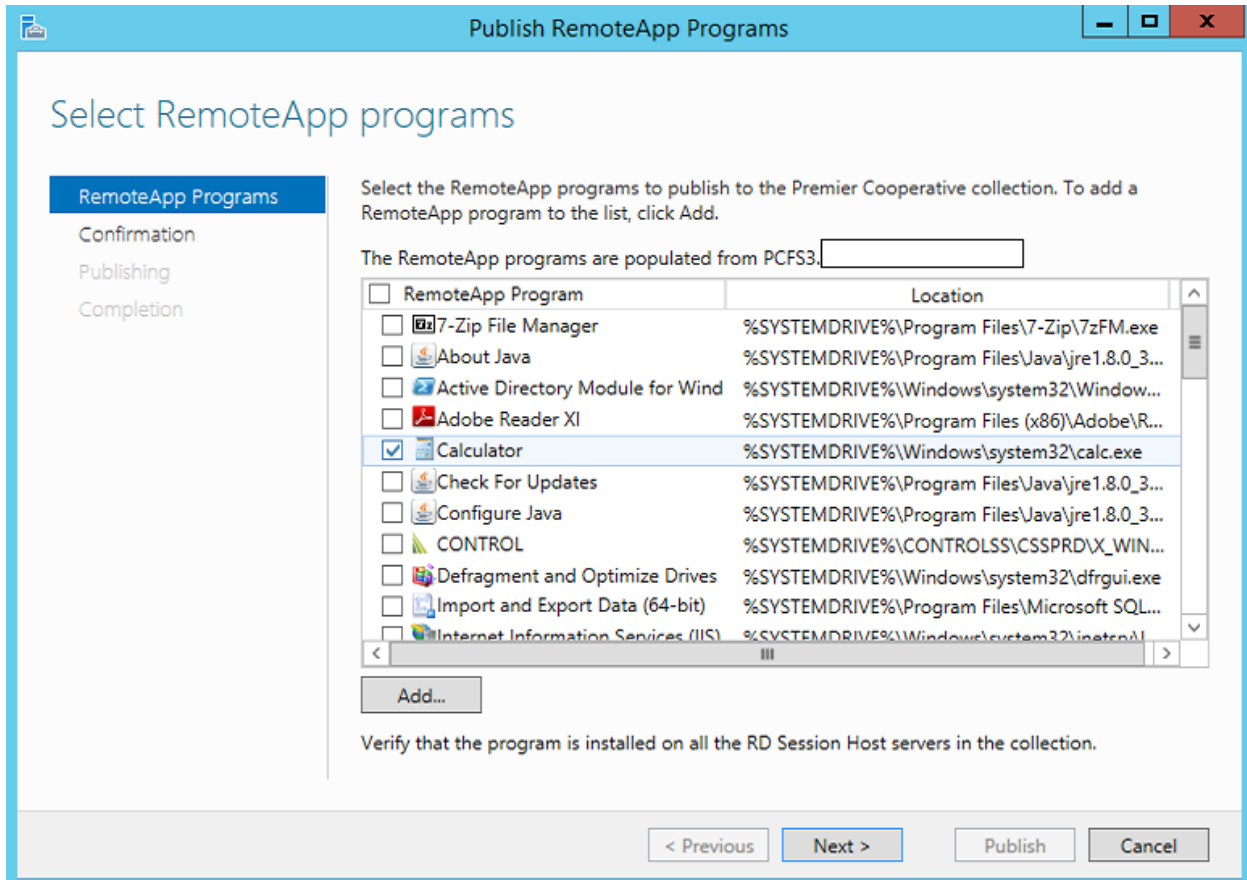
HOST SERVERS
Last refreshed on 7/27/2015 2:16:03 PM | All servers | 1 total

Server Name	Type	Virtual Desktops	Allow New Connections
PC93	RD Session Host	N/A	True

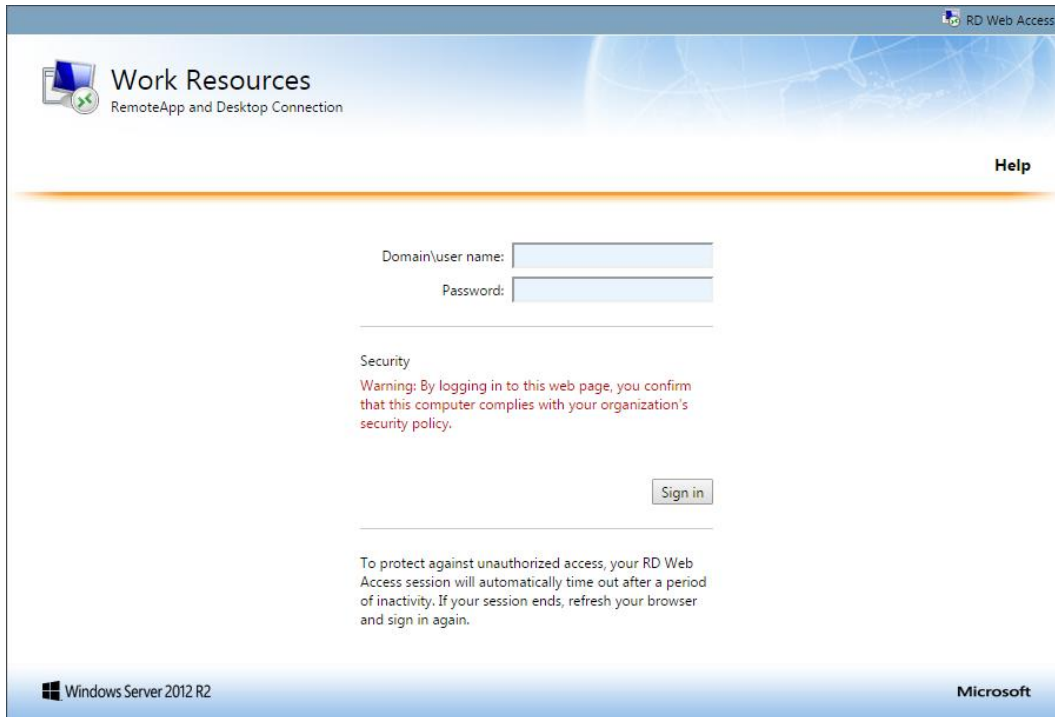
CONNECTIONS
Last refreshed on 7/27/2015 2:34:28 PM | All connections | 3 total

Server FQDN	User	Session State	Log On Time	Disconnect Time
		Active	7/27/2015 12:08:18 PM	7/27/2015 12:49:32 PM
		Active	7/27/2015 2:27:54 PM	7/27/2015 2:33:00 PM
		Active	7/27/2015 2:34:01 PM	-

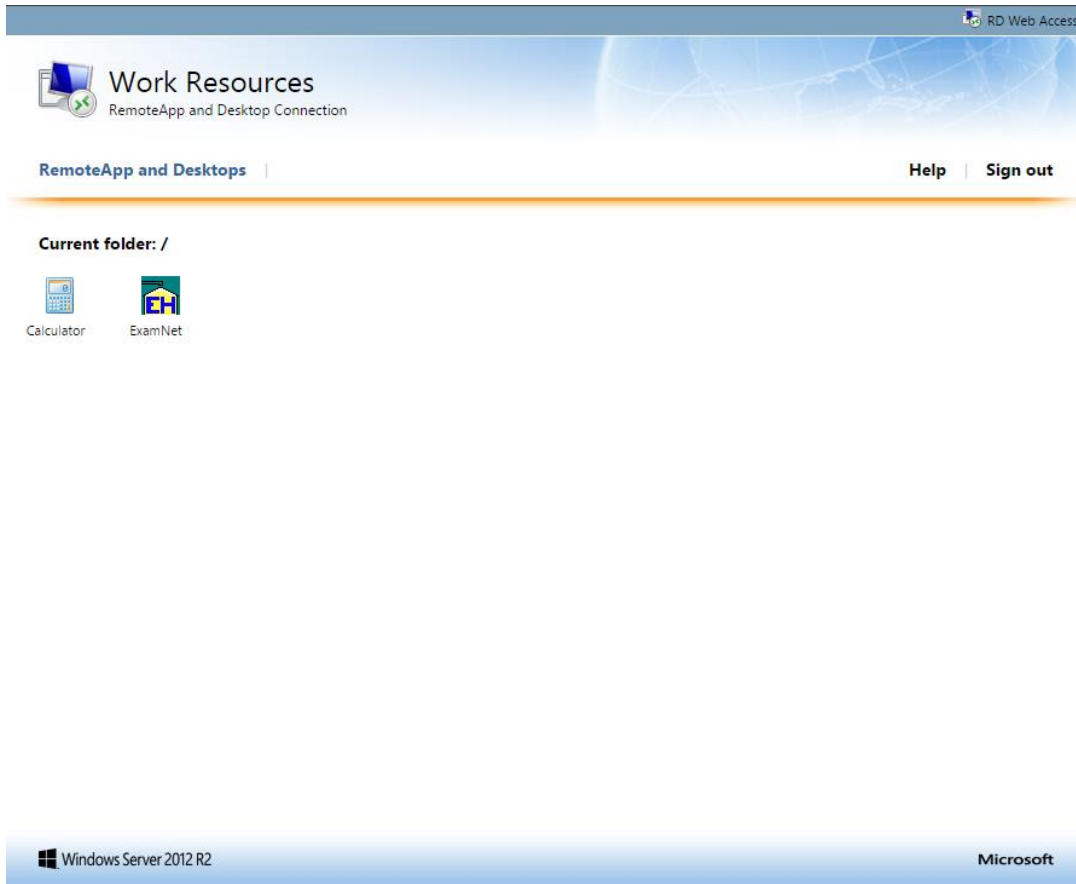
To publish an application, click on the Tasks button under REMOTEAPP Programs. This will bring up a list of all installed applications on the server. There is also an “add” button near the bottom that will allow you to add any standalone executable program. For testing purposes and simplicity I will use the calculator in this explanation. Once you have selected the program you wish to publish, it will then show up under the REMOTEAPP Program box (as shown in the above screen shot).



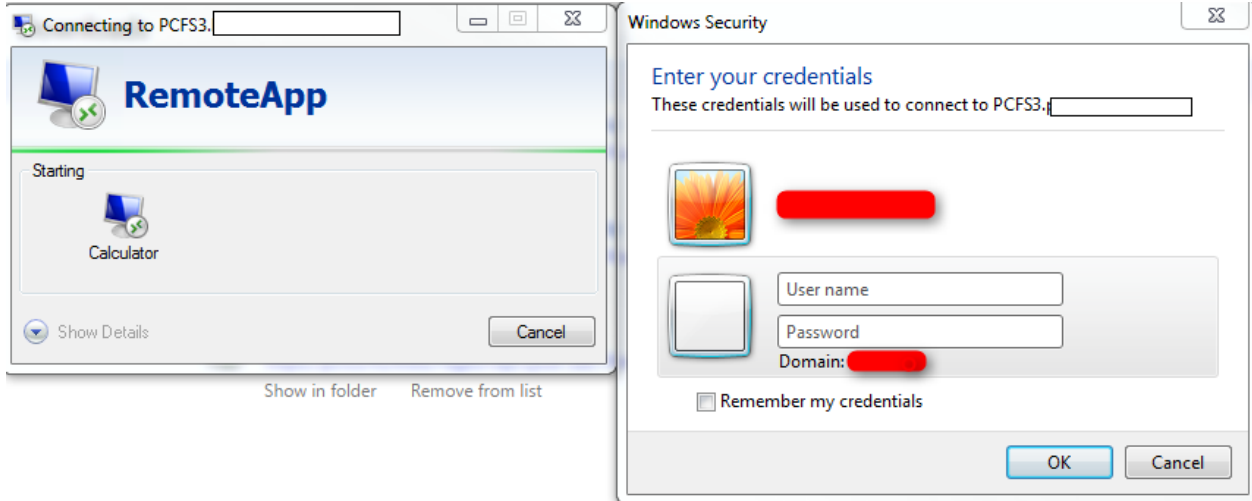
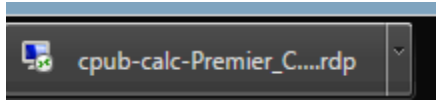
Now to view the web portal and test the program. As shown before, the website will be [https://\\$SERVER/Rdweb](https://$SERVER/Rdweb)



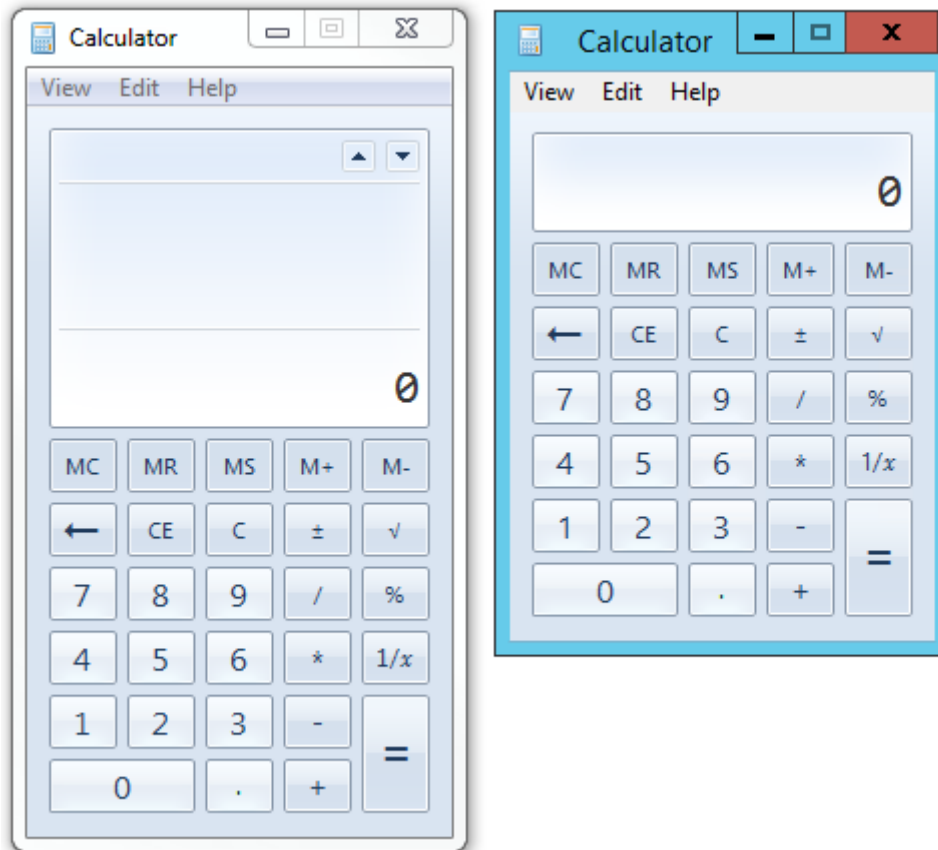
This page will allow your users to log in depending on the permissions you set before. You can also set up what each user/group can view. This could be very helpful as a security precaution for your apps.



Clicking the icon of the program will then download an .RDP file that will then launch the program using the remote desktop protocol. It will ask for credentials for using the program. The user must have correct rights on the server to do so or it will fail.

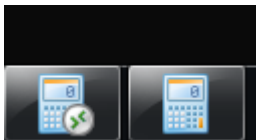


I am using Windows 7 as my machine but you can see that the application is running as a Server 2012



application.

The program on the left is my local calculator program and the program on the right is the published application. This is a windowed application so it can be moved around and minimized just like any other program. Exiting the application will require the user to click on the downloaded file again. This downloaded file can be published via GPO to their desktop or a shortcut can be made to be able to change the icon to whatever you want.



You can also tell if the program you are using is running via RDP by the >< symbol on the task bar.

This document is just a simple explanation of the RemoteApp deployment. Many factors need to be considered when using this configuration. I have skipped explanations or configurations that will be vastly different by environment but have shown the general procedure. There is not a configured Root CA in this configuration so there may be some Unsigned Certificate warnings that will need to be skipped but are not shown.