

# *Microsoft® Virtual Labs*

**Allowing External Users to  
Manage IIS7 Web Applications**

**Microsoft®**

# Table of Contents

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<b>Allowing External Users to Manage IIS7 Web Applications.....</b>	<b>1</b>
Exercise 1 ALLOWING EXTERNAL USERS TO MANAGE IIS7 WEB APPLICATIONS .....	2

# Allowing External Users to Manage IIS7 Web Applications

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## Objectives

After completing this lab, you will learn how to:

- Configure the management service
- Work with feature delegation
- Connect to IIS Manager from outside the firewall using TS RemoteApp

## Scenario

Web servers are one of the services that most often are in need of remote administration by an external consultant. Many companies outsource web development activities and as a result, need to grant external users access to both manage content and configuration on their web servers. IIS 7 includes a new management service which addresses this need and TS RemoteApp provides a secure way to make management tools available outside the firewall. This demo shows how you can configure the management service, work with feature delegation, and connect to IIS Manager from outside the firewall using TS RemoteApp.

## Estimated Time to Complete This Lab

20 Minutes

## Computers used in this Lab



**SFO-DC-01**



**Remote-CLI-01**


The password for the Administrator account on all computers in this lab is:  
**Passw0rd!**

# Exercise 1


## ALLOWING EXTERNAL USERS TO MANAGE IIS7 WEB APPLICATIONS

### Scenario

One of the challenges that many companies face when it comes to developing and managing web sites, is administration of web servers. In a lot of cases, companies might outsource development of web applications and sites. This outsourcing requires that external users have access to internal web servers. This access is often complex, involving VPN or terminal server access, and requiring that these individual be given administrative rights on the web servers. IIS7 introduces a new management framework that makes it easy to not only give these users access to IIS, but restrict them to only specific sites and features.

Tasks	Detailed Steps
<p><b>Complete the following tasks on:</b></p> <p> <b>SFO-DC-01</b></p> <p><b>1. Explore Feature Delegation</b></p>	<p><i>Note: We'll begin this demo by exploring feature delegation. Feature delegation allows me to define which settings in IIS are allowed to be administered, and which are not. Any feature can be delegated in several ways. Everything from full read/write to not visible. Here we have made three changes from the default. We have set the default document and directory browsing settings to read only. We have also set the Machine Key to not delegate. We'll see the effect of this later in the demo, but what we have just done is limited the ability of certain items to be configured at the site level.</i></p> <ol style="list-style-type: none"> <li>a. In <b>SFO-DC-01</b> machine, Open <b>IIS Manager</b> by clicking on <b>Start</b>, and click on <b>Internet Information Services (IIS) Manager</b></li> <li>b. Click the <b>Server Node: SFO-DC-01 (Woodgroovebank\administrator)</b></li> <li>c. Double click <b>Feature Delegation</b></li> <li>d. Examine the value of <b>Default Document, Directory Browsing</b> and <b>Machine Key</b></li> </ol>
<p><b>2. Configure the Management Service</b></p>	<p><i>Note: The management service is what enables users on remote computers to connect to IIS and manage it. When the user connects, they have to provide credentials, and a site name. As you can see there are two types of credentials supported. IIS Manager credentials are new to IIS 7 and are very similar to the idea of a "local" account. This account is only valid in IIS 7. Perhaps one of the best examples of a use for this account is if you want to grant an external consultant access to configure your web server, but you do not want to create a domain account. This lets you create an account that is valid for the task you want them to perform only. Next we'll look at creating a new account named "Consultant", and assigning it permissions.</i></p> <ol style="list-style-type: none"> <li>a. In <b>IIS Manager</b>, click the <b>Server Node: SFO-DC-01 (Woodgroovebank\administrator)</b></li> <li>b. Double click <b>Management Service</b></li> <li>c. Click <b>Enable remote connections</b></li> <li>d. Click <b>Windows and IIS Credentials</b></li> <li>e. Click <b>Apply</b>, then <b>Start</b></li> <li>f. Point out <b>listening port</b> number and <b>certificate</b></li> </ol> <p><i>Note: To manage new users, we only need to open the IIS Manager Users node, and from there we can create, delete, and manage accounts.</i></p> <ol style="list-style-type: none"> <li>g. In <b>IIS Manager</b>, click the <b>Server Node: SFO-DC-01 (Woodgroovebank\administrator)</b></li> </ol>

Tasks	Detailed Steps
	<ul style="list-style-type: none"> <li><b>h.</b> Double click <b>IIS Manager Users</b></li> <li><b>i.</b> Examine the <b>New User</b> option</li> <li><b>j.</b> Click <b>Consultant</b></li> <li><b>k.</b> Examine the <b>available actions</b></li> </ul>
<p><b>3. Grant permission to Don Hall and the Consultant</b></p>	<p><i>Note: Once the accounts are created, we need to assign permissions. When you assign permissions what you are doing is giving the account administrative permissions to all writeable delegated features in a website. We are going to go ahead and grant that permission to two of our users, the external consultant through the IIS Manager User account, and as well to the websites internal owner, Don Hall.</i></p> <ul style="list-style-type: none"> <li><b>a.</b> In <b>IIS Manager</b>, expand <b>Sites</b>, click <b>Default Web Site</b>.</li> <li><b>b.</b> Double click <b>IIS Manager Permissions</b></li> <li><b>c.</b> Click <b>Allow User</b> in the <b>Action pane</b>.</li> <li><b>d.</b> Click <b>Select</b> in the <b>Allow User...</b> ensure the <b>Windows</b> option is selected, in the Enter object name to select window, enter <b>Woodgrovebank\DonHall</b>, click <b>Check Name</b>, and click <b>OK</b>.</li> <li><b>e.</b> Click <b>Allow User</b> in the <b>Action pane</b>.</li> <li><b>f.</b> Ensure the <b>IIS Manager</b> option is selected, click on <b>Select</b>. Select <b>Consultant</b>, and click <b>OK</b>. Click <b>OK</b> to add <b>Consultant</b></li> </ul>
<p><b>4. Connect to the site as Consultant</b></p>	<p><i>Note: We have not got a framework in place that allows my external consultant to connect to my web server from a remote computer and manage it, all without having to grant that consultant a domain account. If that consultant has IIS Manager, and is able to connect to this web server using the management port, all they have to do is add the web site and they can configure it. The management port can be published via ISA Server, so that even with IIS Manager outside the firewall, you can connect and manage this web site.</i></p> <ul style="list-style-type: none"> <li><b>a.</b> In <b>IIS Manager</b>, on the <b>File</b> menu, click <b>Connect to a site</b>.</li> <li><b>b.</b> Server Name: <b>localhost</b></li> <li><b>c.</b> Site name: <b>Default web site</b></li> <li><b>d.</b> Click <b>Next</b></li> <li><b>e.</b> User name: <b>Consultant</b></li> <li><b>f.</b> Password: <b>Passw0rd!</b></li> <li><b>g.</b> Click <b>Next</b>.</li> <li><b>h.</b> Click <b>Finish</b>.</li> </ul>
<p><b>5. Administer Default Web Site as Consultant</b></p>	<p><i>Note: Once you are connected as consultant, you will notice two things. First of all, both the Default Document and Directory Browsing settings are read-only. Secondly, there is no Machine Key setting. This is the effect of delegation. If we want to make a change to a setting we have read/write access to, such as the Database Connection strings, we can make that change.</i></p> <ul style="list-style-type: none"> <li><b>a.</b> In <b>IIS Manager</b> click <b>Default web site (Consultant)</b>.</li> <li><b>b.</b> Double click <b>Default Document</b></li> <li><b>c.</b> Examine it's <b>Read Only</b></li> <li><b>d.</b> Click <b>Default web site (Consultant)</b>.</li> <li><b>e.</b> Double click <b>Directory Browsing</b></li> <li><b>f.</b> Examine it's <b>Read Only</b></li> <li><b>g.</b> Click <b>Default web site (Consultant)</b>.</li> </ul>

Tasks	Detailed Steps
	<ul style="list-style-type: none"> <li>h. Examine there is no <b>Machine Key</b> node.</li> <li>i. Double click <b>Connection Strings</b></li> <li>j. Click <b>Add</b></li> <li>k. Click <b>Cancel</b></li> </ul>
<p><b>Complete the following task on:</b></p>  <p><b>Remote-CLI-01</b></p> <p><b>6. Connect to IIS Manager over TS Gateway</b></p>	<p><i><b>Note:</b> What happens if we are am outside the firewall, and we are running an operating system that does not have the IIS7 Manager on it, or our version of IIS7 Manager does not support remote connections, like is found on Windows Vista? In that situation, another technology included in Windows Server 2008 can help. By using TS RemoteApp and TS Gateway we can make IIS Manager available outside the firewall over HTTPS to any operating system that has an RDP 6 client installed. Furthermore, we can publish that application using TS Web Access, which means there is no configuration on the client. In this case the external user will need a user account in Windows to logon to the TS Gateway, but once that is completed, they have full access to the IIS Manager application, and can begin connecting to internal sites. We are going to logon to my client, and from there connect to the TS Gateway that we have already configured.</i></p> <ul style="list-style-type: none"> <li>a. Switch to <b>Remote-CLI-01</b> machine</li> <li>b. Double click <b>Internet Information Services Manager</b> in the <b>Start</b> menu</li> <li>c. Click <b>Connect to localhost.</b></li> <li>d. Examine the <b>theme of IIS Manager.</b></li> <li>e. On the <b>File</b> menu, point out the <b>Connect to a site</b> option.</li> </ul>
<p><b>7. Summary</b></p>	<p><i><b>Note:</b> In this demo you've seen the new capabilities in IIS 7which let you enable remote users to administer web sites. These features represent an opportunity to reduce overall complexity, by eliminating the need in most cases for external users to have local access to web sites, and administrator access to web sites. You can limit them to only the web site features you want them to manage, without having to give them full domain accounts. For users that don't have IIS 7 Manager, which is only available on Windows Server 2008, you can provide them with remote access to it using TS Gateway and TS Remote App.</i></p>