

Microsoft Forefront TMG – Publishing RD Web Access with RD Gateway – Part II

Abstract

In this short article series I will show you how to publish Remote Desktop Web Access with Remote Desktop Gateway over Microsoft Forefront TMG. In Part I of this article I showed you the configuration of the RD Web Access and RD Desktop Gateway service. In this article I will show you how to publish RD Web Access with Forefront TMG and how to access RD Web Access with a Windows 7 client.

Let's begin

This article assumes that the Remote desktop Session Host feature is correctly installed and configured, so only the Remote Desktop Web Access and Remote Desktop Gateway components has to be installed and configured.

As a first step we have to issue a certificate with the Common Name (CN) `webmail.trainer.de`. This name is used by clients in the Internet to access the RD Web Access or RD Gateway service.

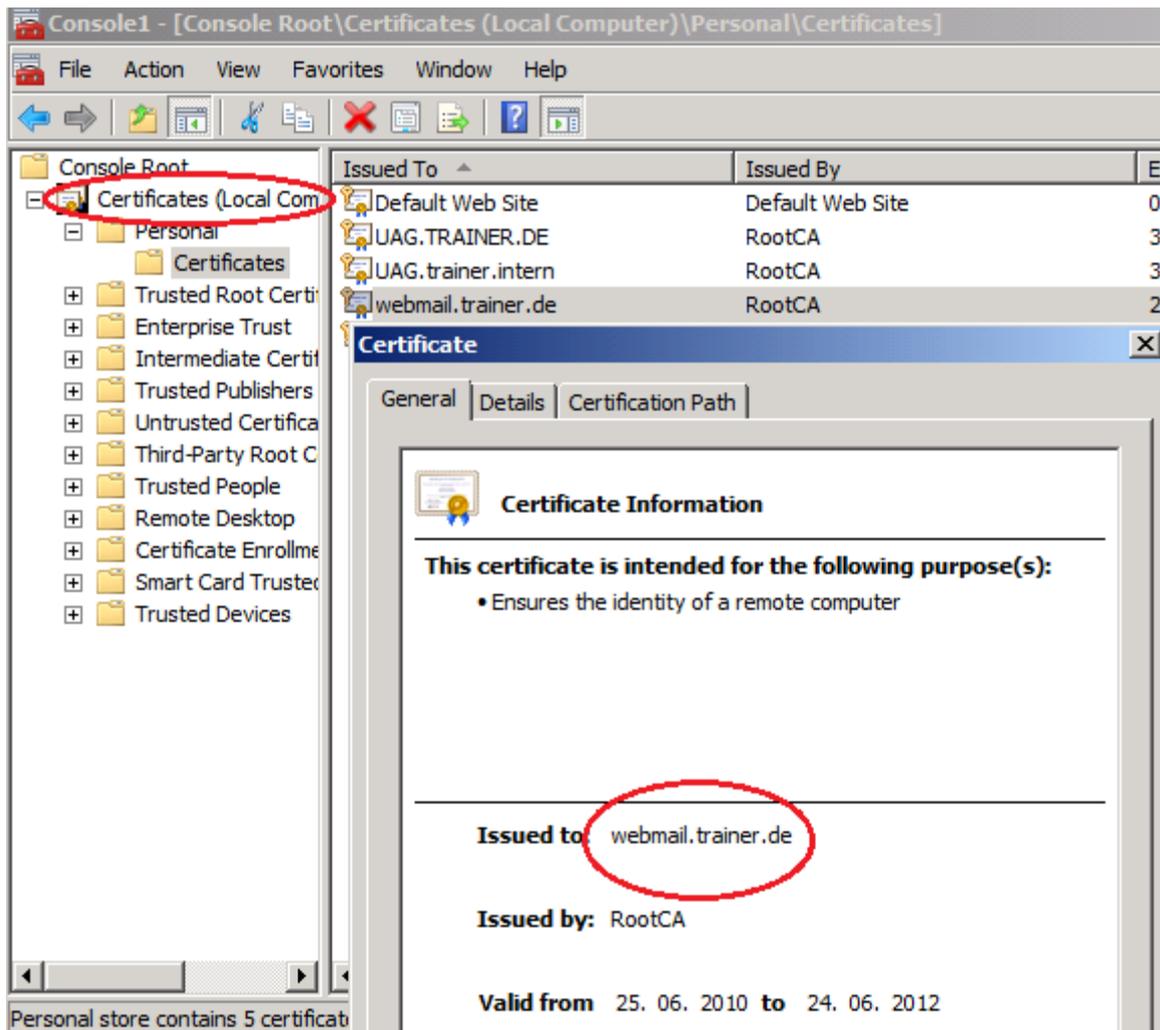


Figure 1: Import the Webserver certificate for TMG publishing

As a next step we have to create a Webserver or Exchange Web client publishing rule. You can use both publishing rules.

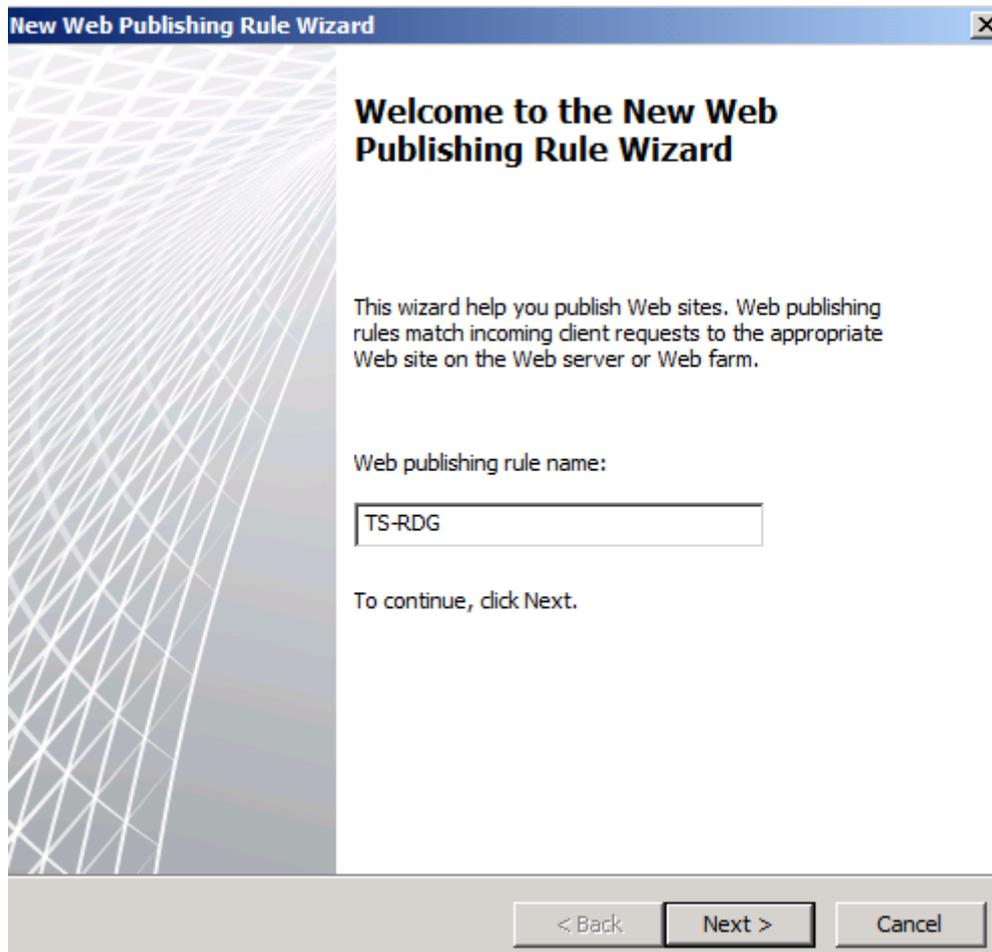


Figure 2: Create new Web publishing rule

Select *Allow* as the rule action.

Select *Publish a single Website or Load Balancer*

Use SSL to connect to the Published Web server and enter the internal Hostname of the Server you want to publish.

New Web Publishing Rule Wizard

Internal Publishing Details
Specify the internal name of the Web site you are publishing.

Internal site name:

The internal site name is the name of the Web site you are publishing as it appears internally. Typically, this is the name internal users type into their browsers to reach the Web site.

 The internal site name must match the common or subject alternative name (SAN) on the certificate bound on the Web site that you are publishing.

If Forefront TMG cannot resolve the internal site name, Forefront TMG can connect using the computer name or IP address of the server hosting the site.

Use a computer name or IP address to connect to the published server

Computer name or IP address:

< Back Next > Cancel

Figure 3: Enter internal site name

It is possible to restrict the access from clients to specific paths, for RD Gateway access you need to allow the `/RPC/*` path, which is used by the RPC over HTTPS proxy service. After the wizard has finished we must modify the publishing rule to allow access to `/RDWEB/*` path too, which is used by the RD Web Access feature.

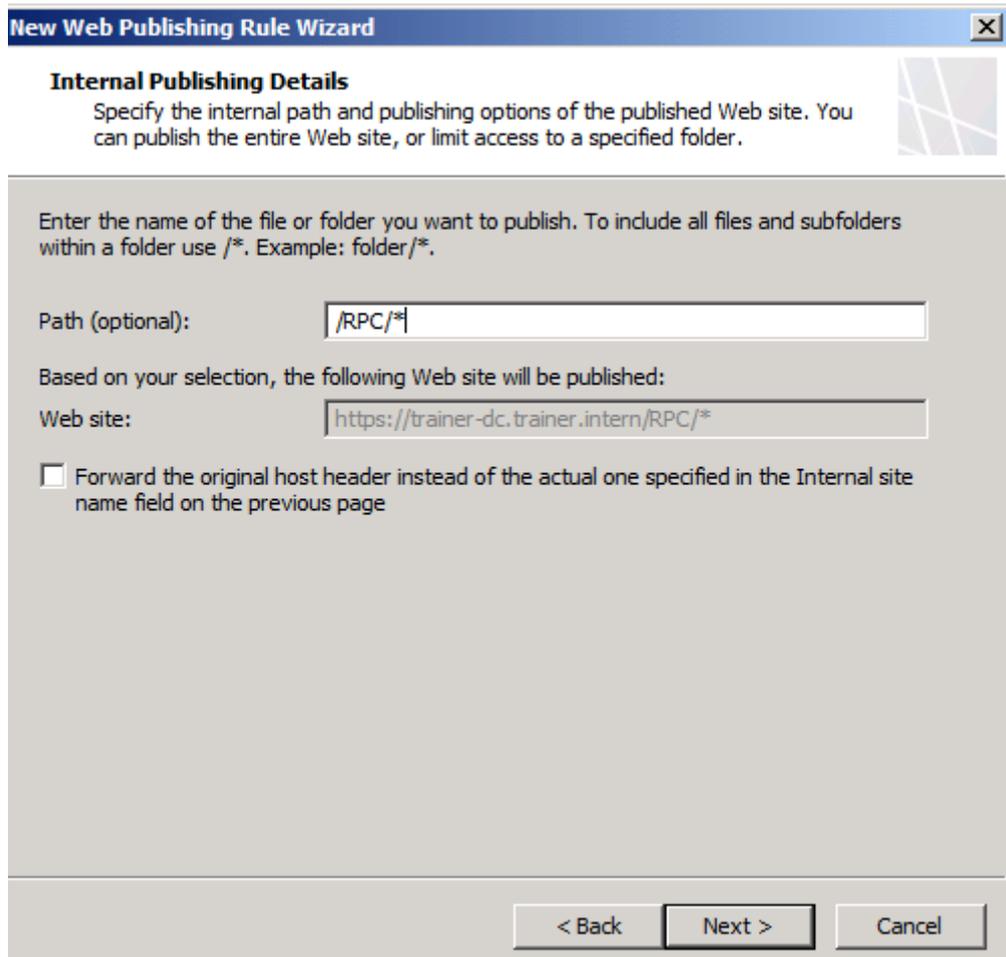


Figure 4: Select the /RPC path to publish

Now we have to enter the public Hostname which we be used to access the published server from the Internet.

The screenshot shows a Windows-style dialog box titled "New Web Publishing Rule Wizard" with a close button (X) in the top right corner. The main heading is "Public Name Details" with a sub-instruction: "Specify the public domain name (FQDN) or IP address users will type to reach the published site." Below this, there are several input fields and a summary section. The "Accept requests for:" field is a dropdown menu currently showing "This domain name (type below)". Below it is the text: "Only requests for this public name or IP address will be forwarded to the published site." The "Public name:" field contains "webmail.trainer.de" with an example "Example: www.contoso.com" below it. The "Path (optional):" field contains "/RPC/*". Below these fields is the text: "Based on your selections, requests sent to this site (host header value) will be accepted:". The "Site:" field contains the URL "http://webmail.trainer.de/RPC/*". At the bottom of the dialog are three buttons: "< Back", "Next >", and "Cancel".

Figure 5: Enter the public Hostname

Next we have to create a new Web listener for RD access. Because we want to use SSL Bridging, select *Require SSL secured connections with clients*. If you only have one IP address bound to the external interface on Forefront TMG you doesn't need to change the Listener IP address. If you have more than one IP address bound to the external NIC interface of Forefront TMG, it is possible to select the IP address which we want to use to publish the RD server.

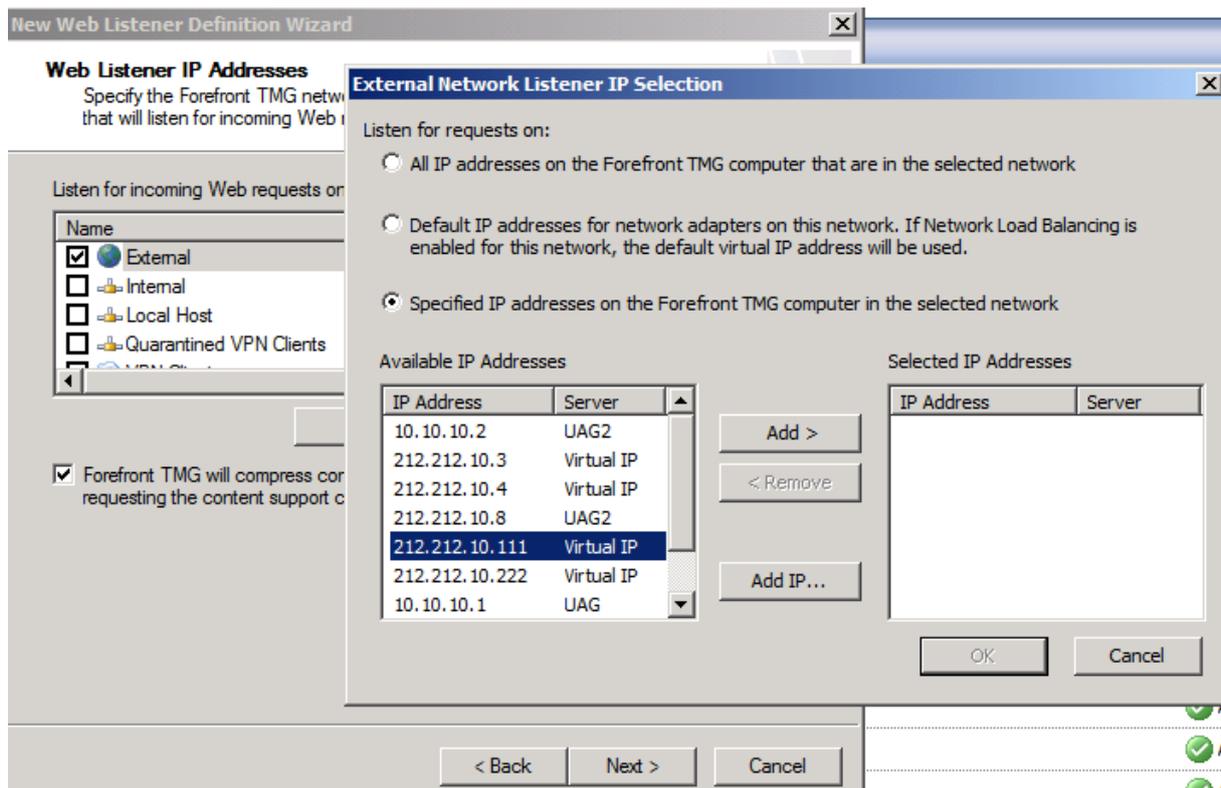


Figure 6: Select the Web listener

Now it is time to select the Certificate which will be bound to the Web listener. Select the webmail.trainer.de certificate.

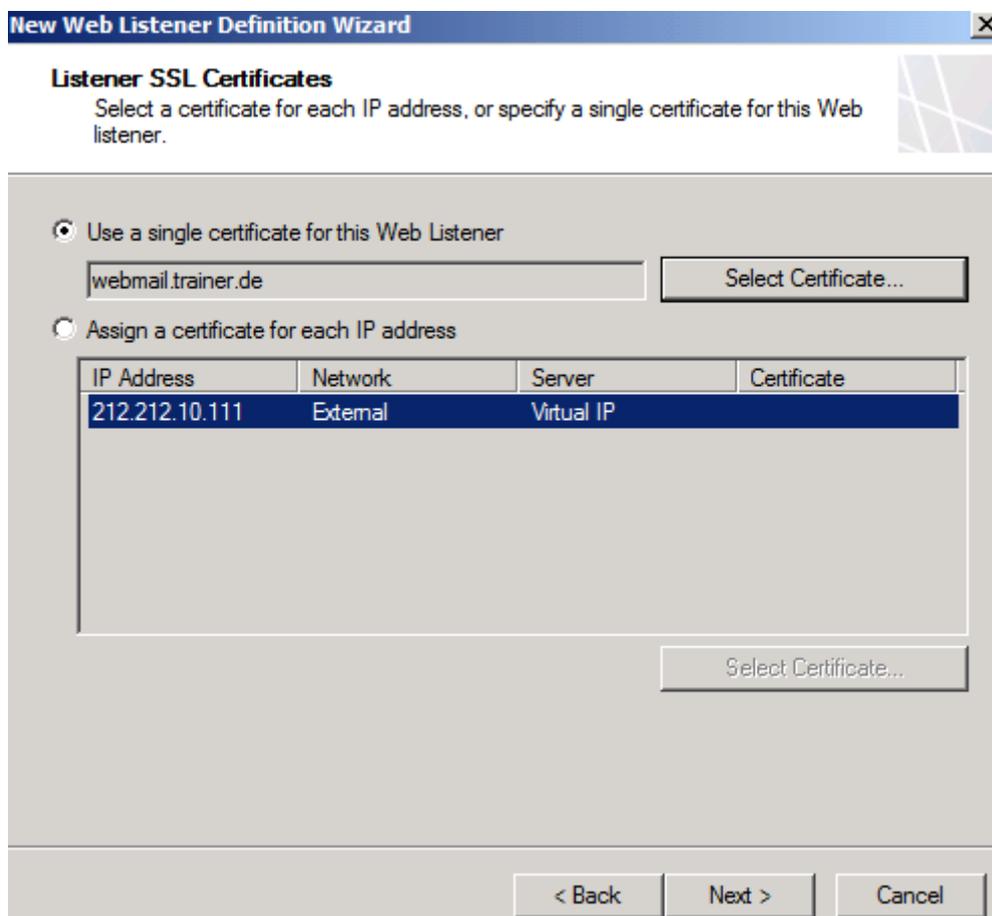


Figure 7: Use the Webmail.trainer.de certificate

The Authentication method is HTTP Integrated Authentication with Active Directory.

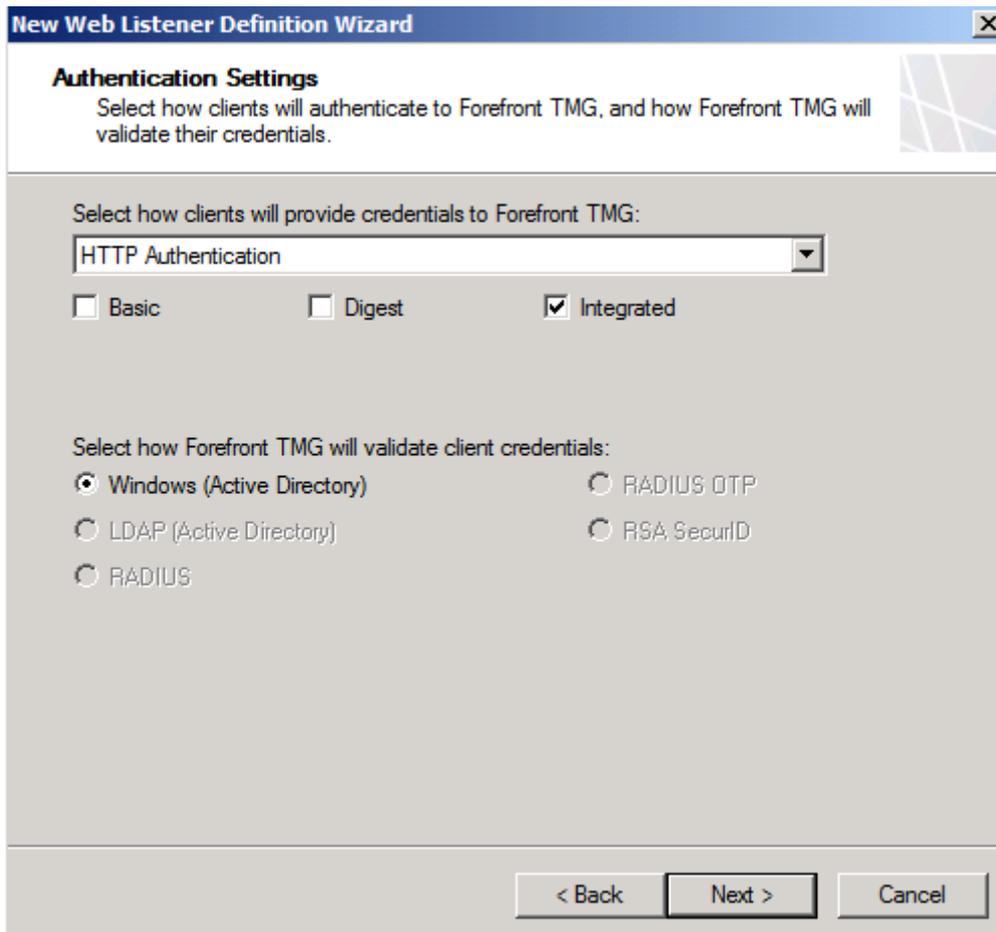


Figure 8: Select HTTP as the authentication method

The Authentication delegation method is Kerberos constrained delegation (KCD). We also have to enter the correct Service Principal Name (SPN). The SPN for this lab environment is HOST/trainer-dc.trainer.intern.

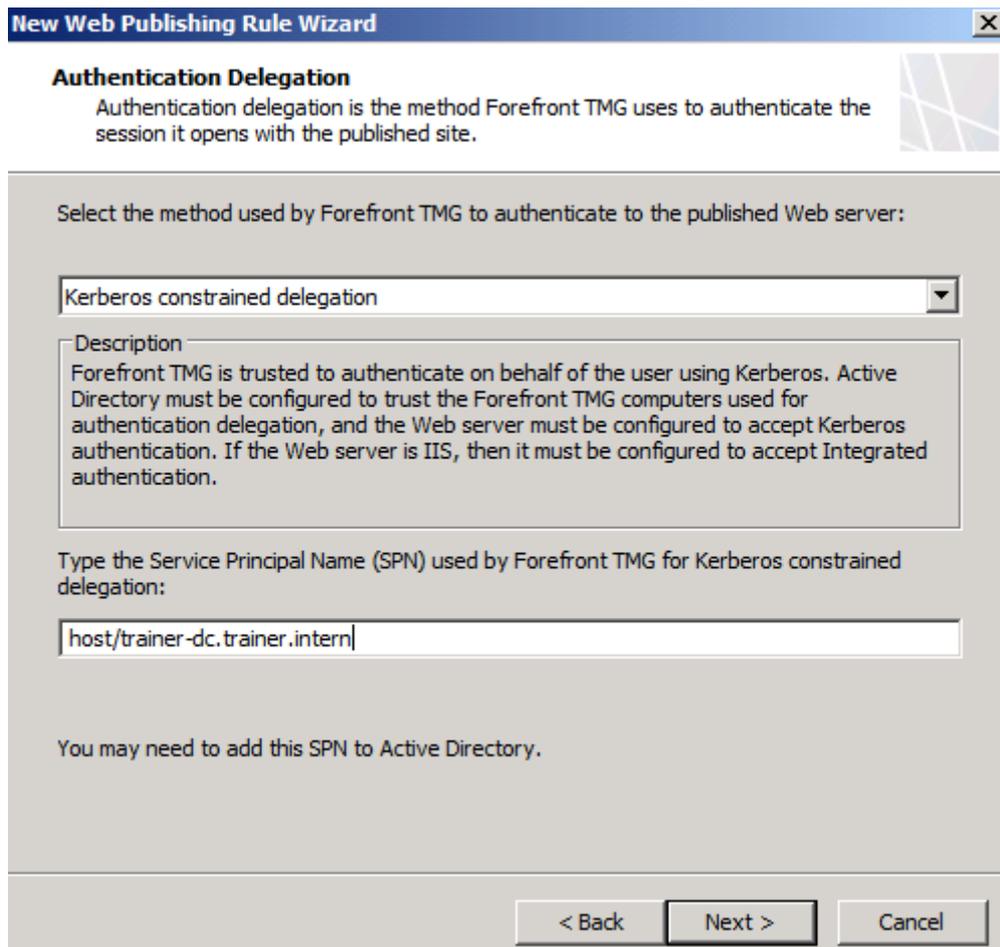


Figure 9: Select KCD and enter the SPN

The rule applies to *All authenticated users*.

Click *Finish*. You will see an additional information message that you have to configure the TMG Server to allow for delegation against the RD server.



Figure 10: Information message for additional KCD configuration

Click *Apply*.

After the configuration changes has been applied, we have to modify the publishing rule to allow access to the additional `/RDWEB/*` path which is used by the RD Web Access feature.

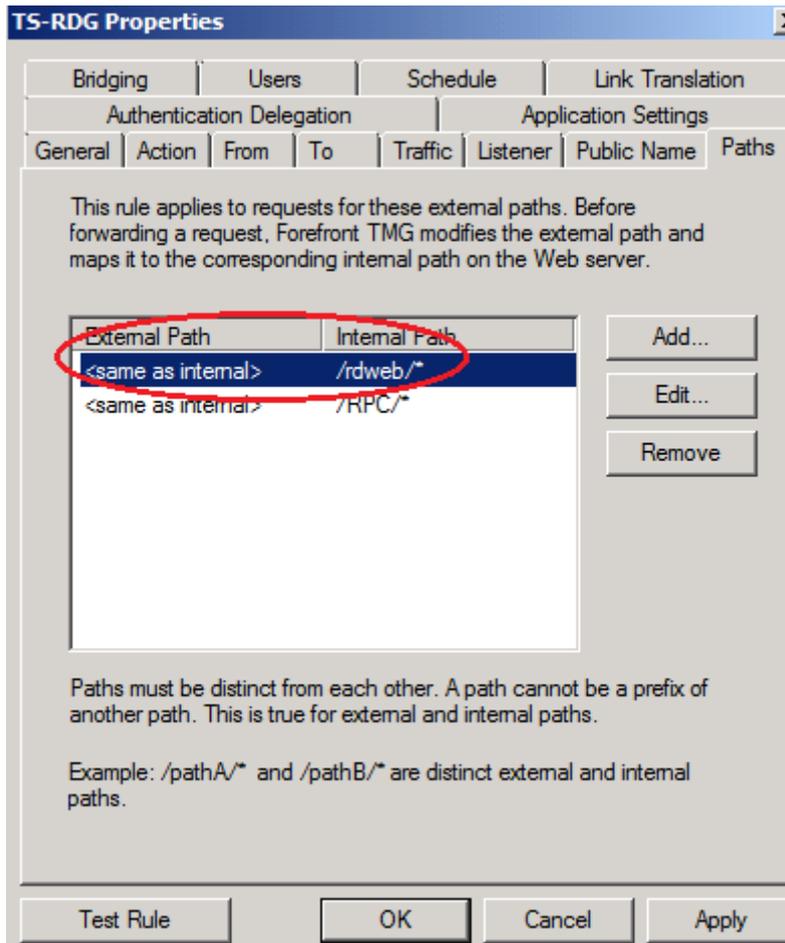


Figure 11: Add the /RDWEB path as an additional allowed path

As a final step we must configure the Trust for Delegation settings. Open the Active Directory Computer and Users Snap In on a Domain Controller and navigate to the Computer account of the Forefront TMG Server, and select the delegation tab, select Advanced and choose the Server with the RD services and select Host as the service type.

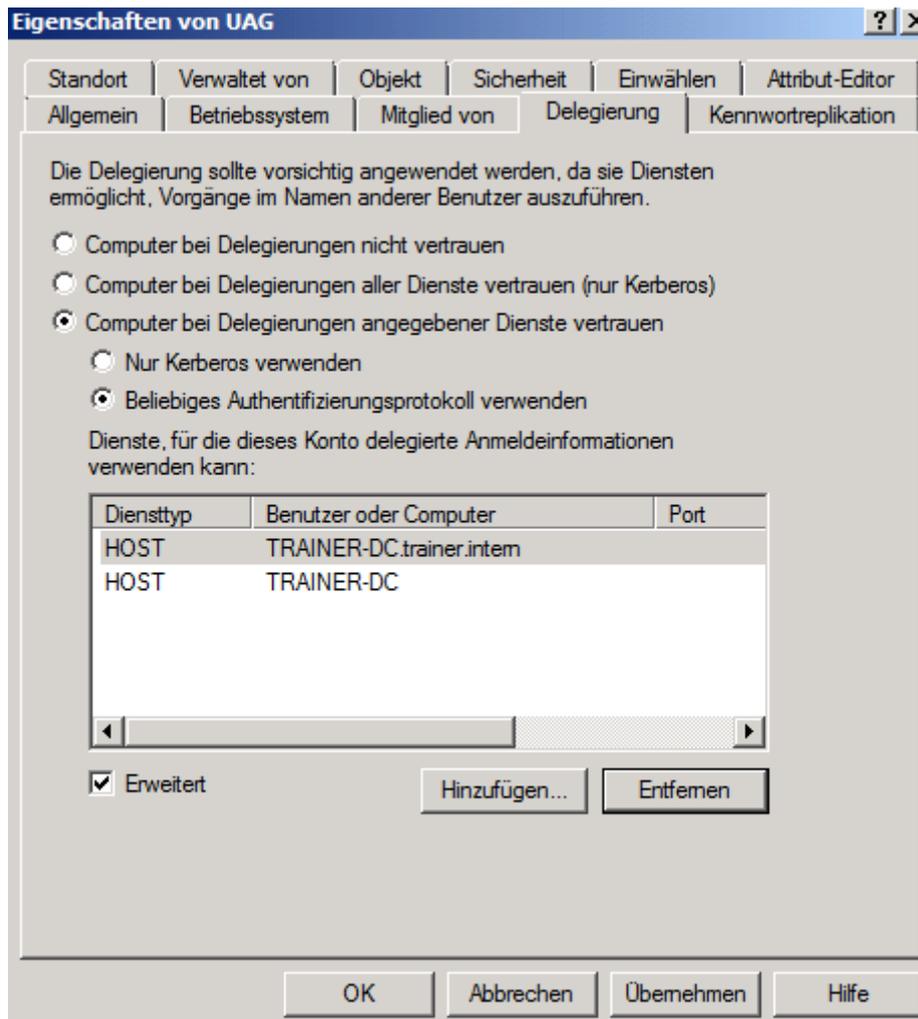


Figure 12: Trust the RD Gateway for Kerberos Delegation

The configuration of Forefront TMG has been finished so we can now configure the Windows 7 client in the Internet to get RD Gateway and RD Web Access. Start the Remote Desktop connection utility (MSTSC.EXE) and enter the published public host name as the name of the computer where you want to connect to.

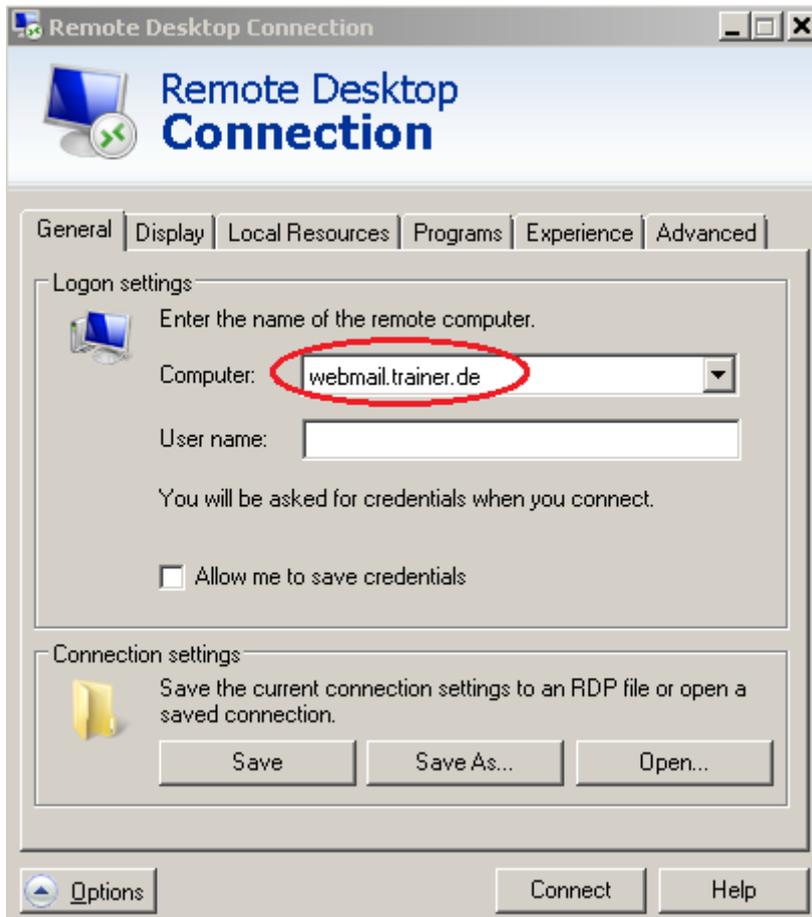


Figure 13: Connect to the public hostname

Next click *Advanced* and *settings* in the connect from anywhere section.

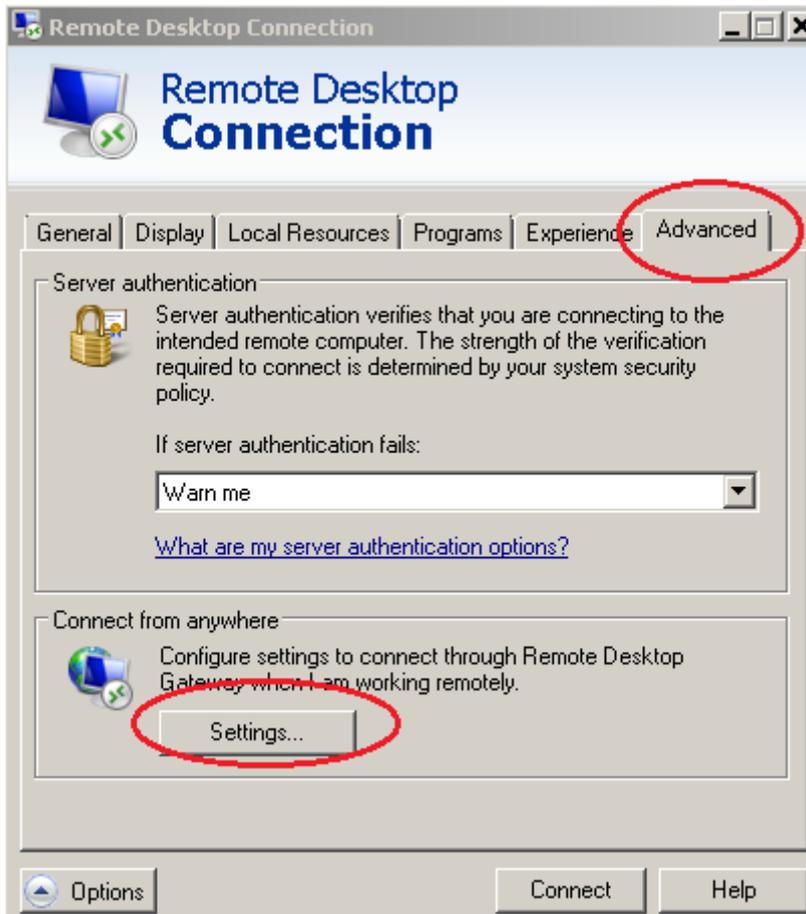


Figure 14: Connect from anywhere

Manually specify the RD Gateway settings and as the RD Gateway Server enter the name of the internal Server with the RD Gateway role installed. Be sure that the checkbox *Bypass RD Gateway Server for local access* is checked.



Figure 15: Enter the RD Gateway INTERNAL Server name

Now try to make a connection to the RD Gateway Server. If your connection is successful you should see an additional icon in the Remote Desktop console which indicates that you are connect through the RD Gateway service.



Figure 15: Connected via HTTPS with the RD Gateway service

If you are the Administrator of the RD Gateway server you can also monitor the connections from clients to the RD Gateway with the RD Gateway Manager console under the Monitoring node as you can see in the following picture.

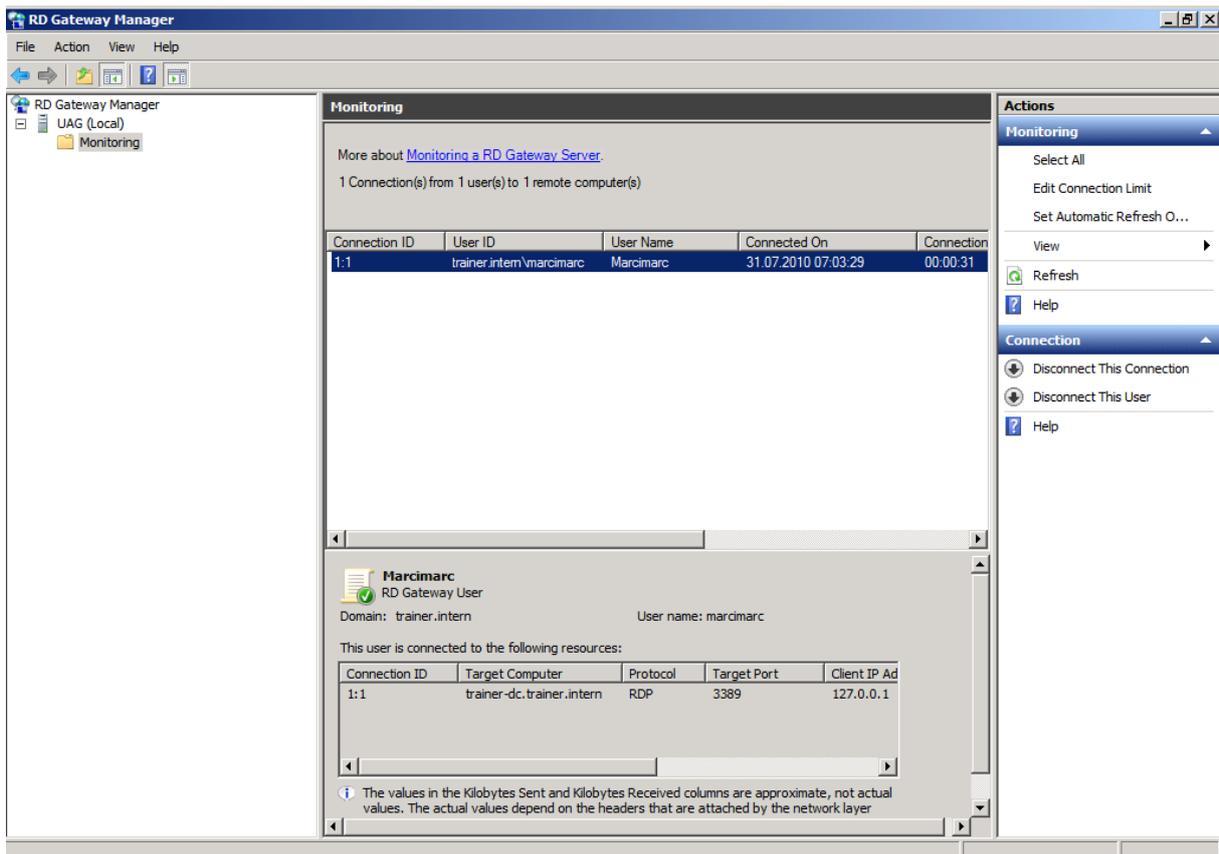


Figure 16: Monitoring the connection with the RD Gateway manager

Now try to open the Website <https://webmail.trainer.de/rdweb> from the Windows 7 client and you should also get access to the RD Web Access feature after a successful authentication. Depending on the RD Web Access and RD RemoteApp settings you can now access application over the web interface which will be tunneled through the RD Gateway service.



Figure 17: RD Web Access over the Internet

Conclusion

In this article I showed you how to publish the RD Gateway service and the RD Web Access feature with the help of Microsoft Forefront TMG and I also showed you how to access the RD Gateway service with the Remote Desktop client connection and how to access the RD Web Access feature with the client web browser.

Related links

Deploying Remote Desktop Gateway Step-by-Step Guide

<http://www.microsoft.com/downloads/details.aspx?FamilyID=6d146124-e850-4cec-9efa-33a5225e155d&DisplayLang=en>

Microsoft Forefront UAG – Overview of Microsoft Forefront UAG

<http://www.isaserver.org/tutorials/Microsoft-Forefront-UAG-Overview-Microsoft-Forefront-UAG.html>

Remote Desktop Web Access (RD Web Access)

<http://technet.microsoft.com/en-us/library/cc731923.aspx>

Enhance TS Gateway Security with ISA Server 2006

<http://technet.microsoft.com/en-us/magazine/2008.09.tsg.aspx>

W2K8-R2-Remotedesktopgateway + Web Access Publish (German article)

<http://blog.forefront-tmg.de/?p=248>