Exchange 2007 – Outlook Web Access Publishing with ISA Server 2006

Written by Marc Grote - mailto:grotem@it-training-grote.de

Abstract

In this article I will show you how to publish Outlook Web Access in Exchange Server 2007 Beta 2 with the help of ISA Server 2006

Let's begin

Exchange Server 2007 is currently in Beta 2 status but the Outlook Web Access functionality is nearly feature complete I think. ISA Server 2006 is RTM since 31st July 2006 and has many new and improved features for Webserver- and Server Publishing rules. One of the enhancements is the Exchange Webclient Access Publishing rule. With ISA Server 2006 it is possible to publish version specific Exchange Servers (including Exchange Server 2007). There are several other enhancements like the option to change user passwords during Outlook Web Access logon. Administrators can now customize the HTML forms for the forms based authentication and ISA supports some new authentication types like RADIUS-OTP and LDAP. It is also possible to do some delegation of authorization.

On Exchange Server site

We must start our configuration on Exchange Server site. Start the Exchange Management Console (EMC) navigate to the Server configuration container, select the Client Access role and select the new OWA directory. The OWA directory is new in Exchange Server 2007 and will be used by OWA clients when they access Exchange Server 2007. You must enable Basic Authentication in the Authentication tab if it is not already configured.



Figure 1: Enable Basic Authentication

On IIS site

Next we must issue a certificate from an internal CA or a commercial CA for the Default Web Site. After issuing the certificate, navigate to the OWA directory – go to the Directory Security tab and enable SSL and 128-bit encryption as you can see in the following figure.



Figure 2: Enable SSL and 128-Bit encryption

On ISA site

Before we start the Exchange Webclient Access Publishing rule wizard we must request a certificate for the ISA Server Weblistener because we are using HTTPS-Bridging, ISA Server terminates the SSL connection from the OWA client, inspects the traffic and encrypts the connection to the Exchange Server again. The common name (CN) of the requested certificate must match the Name of the Server that OWA clients specify in their browsers. In this example the Public FQDN is OWA.IT-TRAINING-GROTE.DE so the CN of the certificate must be OWA.IT-TRAINING-GROTE.DE so the CN of the certificate server swebconsole (http://caservername/certsrv). You must request a Webserver certificate as shown in the following figure.

Please note:

Depending on your ISA Server Firewall rules you must create a Firewall rule that allows HTTP or HTPS access from your ISA Server to the CA Server.

Advanced Certificate Request

Certificate Temp	late:
	Web Server
Identifying Inform	nation For Offline Template:
Name:	owa.it-training-grote.de
E-Mail:	it@it-training-grote.de
Company:	IT TRAINING GROTE
Department:	IT
City:	Hannover
State:	NDS
Country/Region:	DE
Key Options:	
CSP:	Microsoft RSA SChannel Cryptographic Provider 💌
Key Usage:	@ Exchange
Key Size:	1024 Min: 384 (common key sizes: <u>512 1024 2048 4096 8192 16384</u> .) Max:16384
	$oldsymbol{eta}$ Automatic key container name $\hfill \Box$ User specified key container name
	🗖 Mark keys as exportable
	Store certificate in the local computer certificate store Stores the certificate in the local computer store instead of in the user's certificate store. Does not install the root CA's certificate. You must be an administrator to generate or use a key in the local machine store.
igure 3: Advanced	l certificate request

Split DNS or HOSTS file?

The Public Name OWA.IT-TRAININGR-GROTE.DE in the OWA Weblistener must be resolvable to the internal Exchange Server IP adderss, so you have two options:

- Split-DNS or
- HOSTS file

If you are using Split DNS you must create a new Forward Lookup zone in DNS named *IT-TRAINING-GROTE.DE*. Second you must create a new A-record named *OWA* in the new Forward Lookup zone with the IP Address of the internal Exchange Server.

If you are using the HOSTS file you only need to extend the file with an entry like that:

IP address of the Exchange Server OWA.IT-TRAINING-GROTE.DE



Figure 4: HOSTS file

Now it is time to create the Exchange Webclient Access Publishing rule.

Start the ISA MMC click - *New - Exchange Webclient Access Publishing Rule*. Name the rule and select the Exchange Version and that you want to publish Outlook Web Acess.

New Exchange Publishing Rule Wizard		×
Select Services Select the services that you are pul	blishing on this mail server.	
Exchange <u>v</u> ersion: Web client mail services:	Exchange Server 2003 Exchange Server 2007 Exchange Server 2003 Exchange Server 2000	•
Outlook Web Access	Exchange Server 5.5	
Outlook <u>R</u> PC/HTTP(s)		
<u>Publish</u> additional folders or	the Exchange Server for Outlook 2007 cli	ents
Outlook Mobile Access		
Exchange ActiveSync		
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Figure 5: New OWA Publishing rule

Select Publish a Single Website or load balancer

In the next window of the Wizard select the option Use SSL to connect to the published Web server or server farm.

Enter the Name of the Internal Site Name. You can specify a NetBIOS servername or DNS FQDN.

Next you must enter the Public Name that Outlook Web Access users must use when they want to access the Outlook Web Access Server from the Internet. You can see the configuration in the next figure.

Public Name Details Specify the public domain name (published site.	FQDN) or IP address users will type to reach the
Accept requests for:	This domain name (type below):
Only requests for this public name or 1	IP address will be forwarded to the published site.
Public name:	owa.it-training-grote.de
	Example: www.contoso.com

New Weblistener

The next step in the wizard is to create a Weblistener. ISA Server uses Weblisteners to listen for incoming requests that matches the Listener settings. A Weblistener is the combination of an IP address, a Port and when you use SSL a certificate. You must give the Weblistener a unique name.

In the next window of the Wizard select *Require SSL secured connections with clients*.

You must specify the Web Listener IP Address. If the request comes from the Internet you must select the Network External. If your ISA Server has more than one IP Address bound to the External Network Interface you can select the IP Address used for Outlook Web Access.

New Web Listener Definition W	Yizard	×
Web Listener IP Addresse Specify the ISA Server net will listen for incoming Web	:s tworks, and the IP addresses on those netw b requests. ests on these networks:	vorks, that
Name	Selected IPs	
Extern	<all addresses="" ip=""></all>	
🗖 📥 Intern	<all addresses="" ip=""></all>	
🗖 📥 Lokaler Host	<all addresses="" ip=""></all>	
🔲 📥 Quarantänen-VPN-Cl	lients <all addresses="" ip=""></all>	T
	1005 11	
✓ ISA Server will compress or requesting the content sup Help about <u>Web listener IP ad</u>	Select IP <u>A</u> ddresses content sent to clients through this Web List oport compression. <u>Idresses</u>	ener if the clients
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Figure 7: Specify the Weblistener network

Select the Certificate that you had requested from the internal CA server and click *Next*.

lect a certificate from the list of avail ssued To Vi ISA-MUC.fabrikam.com Vi owa.it-training-grote.de Vi Show only <u>v</u> alid certificates	lable certificates:	Issued By RootCA RootCA	Expiration Date 05.09.2007 16.09.2008	Friendly SQL-SLL
ssued To V. ISA-MUC.fabrikam.com V. owa.it-training-grote.de V. Show only <u>v</u> alid certificates	'alidity	Issued By RootCA RootCA	Expiration Date 05.09.2007 16.09.2008	Friendly SQL-SLL
ISA-MUC.fabrikam.com V. owa.it-training-grote.de V. owa it-training-grote.de V. Show only valid certificates V.	alid	RootCA	05.09.2007 16.09.2008	SQL-SLL
owa.it-training-grote.de v	alid	RootCA	16.09.2008	
Show only <u>v</u> alid certificates				
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Show only <u>v</u> alid certificates				
Show only valid certificates				
Show only valid certificates				
rtificate Installation Details:	Contificato Store	(n	viusto Kou	
erver Name		PI	rivace key	
JISA-MUC	Correctly installed (L	.ocal Machine, O	orrectly installed	
			Select	Cancel

Figure 8: Select the Certificate for the Listener

Because we are using forms based Authentication with Outlook Web Access you must select HTML Form Authentication and Windows (Active Directory) for Authentication validation.

Authentication Settings Select how clients will authenticate to ISA Server, and how ISA Server will validate their credentials. Select how clients will provide credentials to ISA Server: Image: HTML Form Authentication Image: Collect additional delegation credentials in the form The logon form will include additional fields for user credentials. ISA Server will use the credentials for authentication to published servers. Select how ISA Server will validate client credentials: Select how ISA Server will validate client credentials: Image: Open Collect additional fields for user credentials. ISA Server will use the credentials for authentication to published servers. Select how ISA Server will validate client credentials: Image: Open Collect additional fields for user Credentials. ISA Server will use the credentials for authentication to published servers. Select how ISA Server will validate client credentials: Image: Open Collect additional delegation
Select how clients will provide credentials to ISA Server: HTML Form Authentication Image: Constraint of the server and the s
HTML Form Authentication Collect additional delegation credentials in the form The logon form will include additional fields for user credentials. ISA Server will use the credentials for authentication to published servers. Select how ISA Server will validate client credentials: • Windows (Active Directory) • LDAP (Active Directory) • RADIUS • RADIUS Help about authentication settings
Collect additional delegation credentials in the form The logon form will include additional fields for user credentials. ISA Server will use the credentials for authentication to published servers. Select how ISA Server will validate client credentials: Select how ISA Server Directory Select how ISA Security Security Select how ISA Security
The logon form will include additional fields for user credentials. ISA Server will use the credentials for authentication to published servers. Select how ISA Server will validate client credentials: • <u>Windows (Active Directory)</u> • RADIUS <u>O</u> TP • LDAP (Active Directory) • RADIUS • RADIUS • Help about authentication settings • Help about authentication settings • • • • • • • • • • • • • • •
Select how ISA Server will validate client credentials:
LDAP (Active Directory) RASA SecurID RADIUS Help about authentication settings
C RADIUS
Help about authentication settings
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Figure 9: Select HTML Form Authentication

Single Sign ON (SSO) is one of the new features in ISA Server 2006 that allows clients to access different Published sites without the requirement of reauthentication. We don't need SSO in this example so you can disable it.

Select *Basic Authentication* because ISA Server will use this Authentication type to authenticate the Outlook Web Access clients to the published Exchange Server.

New Exchange Publishing Rule Wizard	×
Authentication Delegation Authentication delegation is the method ISA Server uses to authenticate the session it opens with the published site.	
Select the method used by ISA Server to authenticate to the published Web server:	
Basic authentication	•
Description ISA Server will use Basic authentication to authenticate the client to the published Web server. The published Web server must be configured to accept Basic authentication.	
Help about authentication delegation	
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Figure 10: Authentication Delegation

The last step in the Wizard is to specify the user group for which the Firewall rule applies to. The default setting is "All Authenticated Users".

Finish the Wizard and Click *Apply* to save the settings.

After creating the OWA rule you should change some settings:

- Change "Requests appears to come from the original Client" in the "To" Tab
- Enable "Require 128 Bit encryption for HTTPS Traffic" in the "Traffic" Tab

Navigate to the Listener Properties and select the *Forms* tab. Under Password Management enable *Allow users to change their Passwords*.

Test the Client Connection

After successfully configuring Exchange Server 2007 and the Exchange-Webclient Publishing rule you can test the connection from one of your clients. For this article the client is a Windows XP Service Pack 2 machine.

Microsoft Exchange - Outlook Web Access - Micros	oft Internet Explorer	_ B ×
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Adresse 🏽 https://owa.it-training-grote.de/CookieAuth.dll?	GetLogon?reason=0&formdir=1&curl=Z2Fowa	💌 🄁 Wechseln zu 🛛 Links 🌺
Fertig	Security (show explanation) Office Outlook Web Access Security (show explanation) Of his is a public or shared computer Of his is a public or shared computer Of his is a private computer Of his is a private computer Of his is a private computer Office Outlook Web Access Light Other Outlook Web Access Other Outlook Web Access Light Other Outlook Web Access	Internet

Figure 11 OWA FBA from a XP client

Conclusion

Exchange Server 2007 is a great product with several new functions. The changes in Outlook Web Access (OWA) are significantly. From the option to specify the language of Outlook Web Access during OWA logon to the option to specify different Out of Office messages for internal and external users to the option to block some file type from access through OWA. Outlook Web Access publishing with ISA Server 2006 is the ideal combination if you want to give your users secure access from anywhere in the world.

Related Links

Using ISA Server 2006 for Outlook Web Access http://www.microsoft.com/technet/prodtechnol/exchange/E2k7Help/1a0bd5c6-fad7-4 9ec-9834-99be3fc115ed.mspx?mfr=true What's New and Improved in ISA Server 2006 http://www.microsoft.com/isaserver/prodinfo/whatsnew.mspx Exchange Server 2007 Beta 2 Technical Library http://www.microsoft.com/technet/prodtechnol/exchange/2007/library/default.mspx Exchange Server 2007 Beta 2 Product Overview http://www.microsoft.com/exchange/preview/evaluation/overview.mspx