Microsoft Forefront UAG – Publishing Microsoft Sharepoint Server 2010

## Abstract

In this article I will show you how to publish Microsoft Office Sharepoint Server 2010 with Forefront UAG.

## Let's begin

In a previous article published at <u>www.isaserver.org</u> I showed you how to create a portal trunk in Forefront UAG to publish internal applications like Microsoft Exchange, Microsoft CRM and many more. In this article we will use a newly created Forefront UAG portal trunk to publish an internal Microsoft Office Sharepoint Server 2010.

What are the differences publishing a Microsoft Sharepoint Server with Forefront TMG and Microsoft Forefront UAG

Forefront TMG also allows you to publish a Sharepoint Server but Forefront UAG has some capabilities for publishing a Sharepoint Server. In addition to the Forefront TMG capabilities Forefront UAG comes with the following major enhancements:

- Accessing a Sharepoint Server through a portal with different authentication providers
- Forefront UAG application optimizers to control access from the client to the Sharepoint Server through Forefront UAG
- Deeper HTTP and application aware filtering
- Forefront UAG Endpoint access policies
- More granular and deeper session monitoring

To publish a Microsoft Sharepoint Server start the Microsoft Forefront UAG Management Console go to the HTTPS portal trunk created earlier and click Add under in the Applications window to start a wizard which will help you to publish different applications in the Forefront UAG portal.

Select Web – Microsoft Office Sharepoint Portal Server 2010 to publish the internal Sharepoint Server 2010 or a farm of Sharepoint servers.

Add Ap	plication Wizard			×
	Step 1 - Select Application			
	Select the application you wan	t to publish.		
	C Built-in services:			
	Portal		•	
	• Web:			
	Microsoft SharePoint Server 2	010	•	
	C Client/server and legacy:			
	Generic Client Application		•	
	C Browser-embedded:			
	Generic Browser-Embedded A	pplication (multi	ple server 🔻	
	C Terminal Services (TS)/Rem	note Desktop Se	rvices (RDS):	
	RemoteApp		•	
Help	2			
		< Back	Next >	Cancel

Figure 1: Sharepoint publishing wizard

Next, we must specify a name for the new application. In Step 3 it is possible to configure Endpoint policies for the application. Forefront UAG allows you to create Endpoint policies at the port trunk level and at the application level to control access to the portal and the application from external clients. If you are unfamiliar with UAG Endpoint policies leave the settings unchanged.

Add Application Wizard		x
Step 3 - Select Endpoint I	Policies	
Access policy:	Default Web Application Access	
Upload policy:	Default Web Application Upload	
Download policy:	Default Web Application Download	
Restricted zone policy:	Default Web Application Restricted Zone A	
	Edit Endpoint Policies	
Help		
	< Back Next > Cancel	

Figure 2: UAG endpoint policies

Next click configure an application server. In Step 5 enter the FQDN of the internal Microsoft Sharepoint Server 2010 and the port you would like to use when Forefront UAG should access the internal Sharepoint Server. If you want to restrict access to a specific path you are able to do this in the UAG configuration wizard.

Add Application Wizard			×
Step 5 - Web Servers			
Address type: ⓒ IP/Host C	Subnet C Re	egular expression	1
Addresses: sharepoint.do	main.local		
Paths: /			
HTTP port: 80	C HTTPS port	443	
Public host name: sharepoint		.de	
Replace the host header with	n the following		
<ul> <li>To allow access to information prot Management, publish the Rights Ma UAG.</li> <li>Help</li> </ul>	ected by Inform anagement Serv	nation Rights vices server via F	orefront
	< Back	Next >	Cancel

Figure 3: Specify internal Sharepoint server

In Step 6 we can use different authentication mechanisms. Because we want to enable SSO (Single Sign On) for users which access the Forefront UAG portal to use the internal Sharepoint Server.

Add Application Wizard	×
Step 6 - Authentication	
Specify how user credentials provided during session login are forwarded to published application servers requiring authentication.	
Use single sign-on (SSO) to send credentials to published applications.	
Use SSO	
Select authentication servers:	
Add Remove	
Select client authentication method. For KCD authentication, after completing the wizard, edit the application properties, click the Authentication tab, and configure the KCD settings.	
C 401 request C HTML form 💿 Both	
Allow rich clients to bypass trunk authentication	
$\square$ Use Office Forms Based Authentication for Office client applications	
< Back Next > Cancel	

Figure 4: SSO for Sharepoint

We would like to add a portal and toolbar link, and if you want to open the Sharepoint Server application in a new window it is possible to enable this checkbox.

Add Application Wizard		×
Step 7 - Portal Link		
Add a portal and toolba	r link	
Portal name:	harepoint	
Folder:		
Application URL:	https://sharepoint.in <b>ging</b> .de/	
Icon URL:	mages/AppIcons/SharePoint2010.gif	
Short description:		
Description:		
Open in a new wir	ndow	
P Help		
	<back next=""></back>	Cancel

Figure 5: Portal name

In Step 8 it is possible to configure the authorization settings to access the application in the portal. If you would like to grant all authenticated users access to the Sharepoint application leave the default setting unchanged. If you want to only grant specific users and user groups access to the Sharepoint application uncheck the checkbox and select the users and usergroups from the previous created repository to grant or deny them access to the Sharepoint application.

Add /	Application Wizard				×
	Step 8 - Authorization				
	Specify users and groups that can the portal.	view and access	s the applicatio	on via	
	Users and groups:				
	Name	Allow	View De	ny	
		Add	Ren	nove	
<b>@</b> E	<u>lelp</u>				
		< Back	Nexts	1 0-20	-al
		< DOUN	NEXC >		

Figure 6: UAG authorization

Click Finish.

We must now save the configuration to store the changes to the UAG configuration. Click the floppy symbol to save the configuration. After that we can activate the configuration so that all changes will be effective after a short amount of time. To activate the configuration click the button right from the floppy symbol.

After the application has been created in the portal we are now able to customize the settings of the Sharepoint application. I will only give you some high level steps for application customization.

🗟 Microsoft Forefront Unifie	d Access Gateway Management		_ 8 ×
File View Admin Messages	Help		
🔚 🔇 🔜			
Forefront UAG	Data		
DirectAccess	Portai		
	External Site Name	Applications	
	Specify the name that dients type in the browser to access the site.	Application Name Application Type	
	Public host name: portal generation de Port: 443	Portal Portal	
		OWA     Microsoft Exchange Server	
	External Site Address		
	HTTPS Port: 443		
	IP address: 212 . 212 . 20 . 222 💌		
		Add Edit Remove	
		Limit applications to the following subpates	
		Linit applications to the following subnets.	
		Subnet Address Subnet Mask	
	Initial Internal Application		
	Portal home page: Portal	Add Edit Remove	
	Display home page within portal frame		_
	Trunk Configuration		
	Configure trunk settings: Configure		-

Figure 7: UAG portal with Sharepoint application

The Web Settings tab allows you to verify URLs used or to allow WebDAV methods to the published server and many more settings.

Application Properties (Microsoft Share	Point Server 2010)	×
Redpoint Policy	Settings	i
Heb Server Security	Cookie Encryption	
😥 Download/Upload 🔰 🔇 Portal	Link & Authorizatio	n İ
📃 General 🛛 🎒 Web Servers 🛛 🎒 We	eb Settings 🐰 Authentica	tion
Apply these rules for requests to the publish	ned server:	Ì
Verify URLs		
Evaluate without enforcement		
Allow data using WebDAV methods		
Check XML data integrity		
Apply URL character rules		
Use user-dependent variables in URLs		
Allow POST requests without a content	t-type header	
Ignore predefined URL list in session time	meout calculation	
Activate restricted zone		
Specify the authorization key or the source server, and key format.	IP address key to send to the	e
Authorization key:		
Key format: 💽 Header	C Parameter	
Source IP address key:		
Key format: 🕜 Header	C Parameter	
C Header		
P Help	OK Cance	el

Figure 8: Web settings

The Download / upload tab allows you to control the download of content to the published Sharepoint Server.

Application Properties (Microsoft	SharePoint Server 2010)
<ul> <li>Endpoint</li> <li>Web Server Security</li> <li>General</li> <li>Web Servers</li> <li>Bownload/Upload</li> </ul>	t Policy Settings
Downloads ✓ Identify by URL ✓ Identify by extension C Exclude © Include Extension list: Unknown content type (required to block by extension):	Uploads  ✓ Identify by URL  Identify by extension  C Exclude  Extension list:  ✓ Identify by size  1024 KB and above
Identify by size 1024 KB and above	

Figure 9: Download/upload settings

The Web Server Security tab allows you to activate the smuggling protection feature and the maximum size of the POST request. HRS can be used to block requests if the following conditions apply:

- The method is POST
- The content-type is not listed in the content-type list
- The length is greater than the specified maximum length

This option should be enabled only for servers that are vulnerable to HRS attacks. If this option is enabled when it is not required, applications may not behave as expected.

Application Properties (M	icrosoft ShareP	oint Server 2	010)
General Server Sec	Endpoint Policy S ervers   🏈 Web   🔇 Portal L urity	Settings Settings   & ink   & Settings   B	Authentication Authorization ncryption
Specify how the application smuggling, including conte maximum size of a POST re	n is protected aga nt types that are a equest.	inst HTTP reque llowed, and the	est
Activate smuggling p	protection		
Content types:	application/x-ww multipart/form-da multipart/related application/x-ve	vw-form-urlenco ata meer-urlencode	ded
Maximum size of POST request	49152		bytes
P Help		ОК	Cancel

Figure 10: Web server security

The Cookie Encryption tab allows you to enable Cookie encryption to hide cookie names and values.



Figure 11: Cookie encryption

At client side

After all settings has been configured you can now test the connection from an external client. Open the portal website. If you visit the website the first time a set of ActiveX controls or Java applets depending on the browser version you use will be installed. These components are called the endpoint detection components which interacts with the Forefront UAG Server for applying Endpoint policies and for local interacting between the Forefront UAG Server and the client.

(Þ)	( )	é htt	ps://portal.		de/uniquesig549910c06dd06019d65 🔎 – 🔒 🗟 🖒 🗙 🎉 Microsoft Forefront Unified 🗴	☆ ☆
File	Edit	View	Favorites	Tools	Help	
				1	Application and Network Access Portal	
					Checking for device compliance	
					on coning for a critic compilation	
				(	9 2010 Microsoft Corporation. All rights reserved. <u>Terms and Conditions</u> .	

Figure 12: Portal endpoint detection

The user must enter the user name and the password.

Log On		
Log On		
User name:	administrator	
Password:	••••••	
Language:	English (en-US)	
	Log On	
This site is intend	ed for authorized users only.	

Figure 13: Logon to the portal

After the user has been authenticated he will get access to the Forefront UAG portal and can now use the published Sharepoint application.

		× Charles and the second second	_	
File Edit View Favorites	Tools Help	Wilcrosoft Forefront Unified		
🔊 Viel Glueck be	i Sharepoint			
Run App	lication 🕨 🚱 😮 🔁 Activity 📑			01:59:01 🔂 Log Off
	Home		Search application	Sort by: Name 🔻
<ul> <li>Time</li> <li>OWA</li> <li>OWA</li> <li>Sharepoint</li> </ul>	OWA Tribook Web App	SharePoint Server 2012	epoint	
Start	Contact us   © 2010 Microsoft Co	rooration. All rights reserved. Terms and Conditio	ns.	

Figure 14: UAG portal accessing Sharepoint

Depending on the Forefront UAG configuration, the Sharepoint website will be opened in the same portal window or in another window.



Figure 15: Sharepoint access through Forefront UAG

## Conclusion

In this article we published a Microsoft Office Sharepoint Server 2010 with Microsoft Forefront UAG. As you have seen, publishing a Microsoft Office Sharepoint Server with Forefront UAG provides much more capabilities and customization as to publish a Microsoft Office Sharepoint Server with Microsoft Forefront TMG.

## **Related links**

Microsoft Forefront UAG – Overview of Microsoft Forefront UAG <u>http://www.isaserver.org/tutorials/Microsoft-Forefront-UAG-Overview-Microsoft-Forefront-UAG.html</u> Forefront UAG technical overview <u>http://technet.microsoft.com/en-us/library/ee690443.aspx</u> Sharepoint publishing solution guide <u>http://technet.microsoft.com/en-us/library/dd857299.aspx</u>