Publish Remote Desktop Services RemoteApp with Forefront UAG

Abstract

In this article we will talk about the required configuration steps to publish Windows Server 2008 R2 Remote Desktop Services with installed Remote Apps through Forefront UAG.

Let's begin

First we need to setup a Windows Server 2008 R2 Remote Desktop Session host with the RemoteApp feature. You will find more installation instructions <u>here</u>. This article assumes that a Forefront UAG portal trunk has already been configured. If you want to read more how to create a Forefront UAG portal, please read the following <u>article</u>.

To publish RemoteApps as an application in the Portal trunk open the Forefront UAG administration console and right click the Portal icon – Add application. We want to publish Terminal Services aka Remote Desktop Services and the RemoteApp feature as shown in the following screenshot.

Add Application Wizard			×
Step 1 - Select Application	n		
Select the application you war	nt to publish.		
O Built-in services:			
Portal		•	
C Web:			
Other Web Application (appli	cation specific ho	stname) 🔻	
Client/server and legacy:		_	
Generic Client Application		-	
C Browser-embedded:		_	
Generic Browser-Embedded A	Application (multip	ole server 🔻	
Terminal Services (TS)/Rer	note Desktop Ser	vices (RDS):	
RemoteApp		•	
,			
Help			
	< Back	Next >	Cancel

Figure 1: Publish RemoteApp

Enter an Application name

Forefront UAG has some powerful capabilities called Endpoint policies which controls the requirements a client must fulfill to get access to the Forefront UAG portal and published applications. To learn more about Endpoint policies you can read the following <u>article</u>. The Application wizard presents some default Endpoint policies. It is possible to modify these policies for example if you want to be more restrictive if a user should not be able to use feature like clipboard redirection, device and drive mappings.

Add Application Wizard				X	
Step 3 - Select Endpoint Policies					
Select the endpoint policy you	want to use for a	pplication access	s.		
Access policy: 📔 Default	Web Application	Access	-		
Select the policies for Remote D	Desktop Services	(RDS) device rea	direction.		
Clipboard:	Non Web Applica	tion Access	•		
Drives:	Default Non Web Application Access				
When device redirection policie the policies can access local dev sessions.	s are applied, en vices and resourc	dpoints that com es during remot	ply with e desktop		
		Edit Polici	es		
✓ Use RDS Single Sign-On (SS When SSO is enabled for th credentials for access to RD	60) Services le session, the cli DS.	ent passes the s	ame		
P Help					
	< Back	Next >	Cancel	1	

Figure 2: Forefront UAG Endpoint Policies

Before we are able to use the published RemoteApps on the Remote Desktop Session host we have to export the list of RemoteApps on the RemoteApp Server. Start the RemoteApp Manager on the RemoteApp Server and select *Export RemoteApp settings* in the action pane as shown in the following screenshot.

RemoteApp Manager					_ 8
File Action View Help					
듣 🔿 📰 🚺 📊					
RemoteApp Manag	er				Actions
RemoteApp progr	rams are programs that are accessed three	ough Remote	Desktop, and appear	as if they are running on the client's local	RemoteApp Manager (Loc
computer. Before	computer. Before you can make a RemoteApp program available to users, you must add it to the RemoteApp Programs list.				Connect to Computer
					Add RemoteApp Programs
Quere de un					RD Session Host Server S
Overview					RD Gateway Settings
RD Session Host Server Se	ettings Change	I	Distribution with RE	Web Access	Digital Signature Settings
(i) Clients will connect to:	TSRDSFARM.trainer.intern		The TS Web Acce this group can di	ss Computers group is populated. Computers in splay RemoteApp programs from this server. Le	earn 🖹 Export RemoteApp Settings
🛕 Users can start listed an	d unlisted programs on initial connecti	on.	more		Import RemoteApp Settings
RD Gateway Settings Cha	inge		🖊 All RemoteApp p	rograms are visible in RD Web Access.	
(i) Clients will use RD Gate	way settings defined by their domain's	Group	A remote desktop	Refresh	
Policy.	Policy. Access. Change		View		
Digital Signature Settings	Change		Ø More about using RD Web Access		Help
 Signing as: tsrostarm.tra 	Signing as: tsrdstarm.trainer.intern Other Distribution Ontions				
RDP Settings Change	RDP Settings Change Select a RemoteApp program and choose an option below.				
U Clients will connect wit	n custom RDP settings.		Create .rdp File		
			Create windows I	nstaller Package	
			Wore about distri	bution options	
RemoteApp Programs					▲
Name	Path	RD Web Acc	Arguments		
Calculator	C:\Windows\system32\calc.exe	Yes	Disabled		
🕺 Paint	C:\Windows\system32\mspai	Yes	Disabled		
WordPad	C:\Program Files\Windows N	Yes	Disabled		
			i	Î.	

Figure 3: Export RemoteApp Settings on the Remote Desktop Session host

Export the file at a location where Forefront UAG is able to access the file. In the Import RemoteApp Programs section import the exported RemoteApp (.TSPUB) file. The name of the Remote Desktop Session host will be automatically configured, based on the information in the export file.

Add Application Wizard				X
Step 4 - Import RemoteApp	o Programs			
Import server settings from a Re specify a Remote Desktop Sessio	emoteApps settin on Host.	gs file. You	can also	
File to import (.tspub):				
\\trainer-dc\c\$\temp\Programs	.tspub		Browse]
About generating the Remote	eApp Programs li	st and settin	ngs file	-
RD Session Host (IP address or F	FQDN):			_
TSRDSFARM.trainer.intern				
If you are using an RD Session H Session Hosts that might be used	lost server farm, d by it.	add all of t	ne RD	
IP addresses, IP address ranges	s, FQDNs, or sub	nets:		
TS1.trainer.intern				
O Help				
	< Back	Next >	Cano	el

Figure 4: Import RemoteApp programs

Add the available RemoteApp programs to the published RemoteApp list which should be accessible for users in the Forefront UAG portal.

Add Application Wizard				×
Ctop E Coloct Dublishing Tu				
Step 5 - Select Publishing Ty	/pe			
Select the RemoteApp programs	you want to	publish.		
Available RemoteApps:	P	ublished RemoteApp	ps:	
		Calculator		
		Paint		
		wordPad		
	>>			
	<<			
	-			
		1 1		
	< Back	Next >	Cancel	

Figure 5: Select RemoteApps to publish in the Forefront UAG portal

In Step 6 use imported settings for screen resolution and more if you don't want to change these settings.

Add a Portal Link name which should be visible for users in the Forefront UAG portal.

Add Application Wizard			×
Step 8 - Authorization			
Specify users and groups that car the portal. I Authorize all users	n view and access	the application	n via
Users and groups:			
Name	Allow	View Den	у
	Add	Rem	ove
P Help			
	< Back	Next >	Cancel

Figure 6: Enable authentication for all or special users / user groups

After the Assistant has been finished, save and activate the configuration. Save and activate.

Users should now be able to access the published RemoteApp programs through the Forefront UAG portal.

On the client connect to the Forefront UAG portal website and you should see the published RemoteApp as seen in the following screenshot.

😰 Application and Network Access Portal					
Run Application Image: Activity Image: Act					
	NachHause			Search application Sort by: Name	
NachHause Calculator Cartified Endpoint E File Access		Calculator		Certified Endpoint Enrollment Mach mich mit Certificate	
WSTSC OWA Paint Paint WordPad	MARC	File Access Explore Your Files		MSTSC	
🔩 WordPad	Outlook Web App	AWO		Paint	
		<u>Paint</u>		<u>WordPad</u>	
		<u>WordPad</u>			
< >			nn and Deskton C		
Contact is Vour computer is connected to webmail.trainer.de rms and Conditions.					

Figure 7: The client activates the RemoteApp and Desktop Connection

Start a RemoteApp and after a short connection time you should be able to use Microsoft Paint.

b Connecting to TRAINER-DC.trainer.intern	
RemoteApp	
Starting Paint	
💿 Show Details	Cancel

Figure 8: Starting the RemoteApp

You are now able to work with the published application in mostly the same way as a local installed Microsoft paint application on the client



Figure 9: Microsoft paint through Forefront UAG and RemoteApp

Conclusion

In this article I tried to show you how to publish Windows Server 2008 R2 Remote Desktop services with the RemoteApp feature through Forefront UAG. Publishing RemoteApps through a Forefront UAG portal is a great and simple solution to grant users access to internal applications hosted on Remote Desktop Session hosts. The built-in Remote Desktop Gateway on the Forefront UAG Server makes it easy to publish Remote Desktop Services because the RDP connection will be encapsulated into the HTTPS protocol which is secure and Firewall friendly.

Related links

Configure a Remote Desktop Session Host Server to Host RemoteApp Programs <u>http://technet.microsoft.com/en-us/library/ee216766.aspx</u> Microsoft Forefront UAG - Creating a portal with Forefront UAG <u>http://www.isaserver.org/articles-tutorials/configuration-general/Microsoft-Forefront-UAG-Creating-portal-Forefront-UAG.html</u> Remote Desktop Services publishing solution guide <u>http://technet.microsoft.com/en-us/library/dd861391.aspx</u> Microsoft Forefront UAG - Explaining and configuring Forefront UAG endpoint policies <u>http://www.isaserver.org/articles-tutorials/general/Microsoft-Forefront-UAG-Explaining-configuring-Forefront-UAG-endpoint-policies.html</u>