# CONNECTING TO A REMOTE HOST USING DMZ GATEWAY AS A PROXY

## OVERVIEW

Most enterprise deployments of EFT Server place DMZ Gateway in the DMZ and EFT Server inside the network, with all inbound connections brokered by the DMZ Gateway. Occasionally it may be necessary for EFT Server's Event rules or Advanced Workflow Engine to connect to a remote host that is outside the network and DMZ. Because EFT Server resides within the network (as opposed to in the DMZ), it may be considered a security risk to connect directly from EFT to the remote host, and because the DMZ Gateway is already brokering inbound connections, it makes perfect sense to be able to route OUTBOUND connections though the DMZ Gateway, using it as a forward proxy. Fortunately, it is possible to do so both from EFT Server's Event rules and from within the Advanced Workflow Engine, as the DMZ Gateway is configured to act as a Socks5 proxy.



FIGURE 1 - SFTP TO REMOTE HOST VIA DMZ GATEWAY

### PREREQUISITES

- 1. A copy of EFT Server Enterprise and the Advanced Workflow Engine (AWE) module
- 2. DMZ Gateway running on a separate host
- 3. A destination FTP/S or SFTP host, or another EFT Server somewhere in your network
- 4. Logon credentials for the destination server
- 5. Administrator access to EFT Server

#### **EFT S**ERVER-INITIATED CONNECTIONS

Below are screenshots and instructions to guide you through the implementation of this technique.

- 1. Create an account on the remote (destination) host and note the host address, port, and login credentials. For this example we will use 74.125.227.180 over port 22 (SFTP), user:pass = roslin:test
- 2. In EFT Server, verify the DMZ Gateway is enabled and make note of the DMZ Gateway host address and port. For this example we will use 192.168.101.119 over port 44500

	DMZ Gateway DMZ Gateway Connection  DMZ Gateway Connection  Connected  DMZ Gateway address:  192.168.101.119  Port:  44500  Status:  Connected  Reconnect
Crrief Event Rules Gateway Activity Search (CrrI+F) On Scheduler (Timer) Event On Scheduler (Timer) Event	Protocols         Specify the protocols and ports that can be routed through the DMZ Gateway.            \[             ETP

FIGURE 2 - EFT DMZ GATEWAY CONFIGURATION

3. Create a new rule in EFT Server and add a Copy/Move (offload) action, or modify an existing rule by selecting the Copy/Move action to bring up the Offload Wizard. (Refer to the *EFT Server User Guide* for instructions on how to create Event rules and Copy/Move actions if necessary.)

1 Du	e 8:56:52 AM 2/1/2011 (next rup: Stopped)	
	C 0/00/02 HH 2/1/2011 (ICXCTON SCOPPED)	
	Copy file C:\mid.dat to FTP server: 74.125.227.180 as [%F5.FILE	NAME%
	+ if action FAILED then	

#### FIGURE 3 - EVENT RULE ACTION BUILDER

4. On the first page of the offload wizard, specify or verify the remote host (destination) address, login credentials, and protocol type.

5. Click Proxy, and then select the **Use proxy settings** check box and **Use EFT Server's DMZ Gateway as the proxy**. Click **OK** then click **Next** in the wizard, completing the standard source/destination file information.

Offload Action Wizard				×
File Offload C	onfiguratio	n		
	File Offload Configurat Welcome to the Offload A	ion ction wizard. Choose the offle	oad method below.	
	Offload method:	SFTP using SSH2 (Secure	Shell)	
	Host address:	74.125.227.180	Port: 22	1. 11
128177	Username:	roslin		
	Password:	****		
	Use connected cl Site-wide Securit	ient's login credentials to auth settings to allow this option	ienticate (refer to )	
11 12	SFTP Private Key File	Path:		
	SFTP Key Passphrase	Proxy Settin	gs	
11/1		General tra	Insfer options	
1/1	Proxy	Socks	oxy settings below when conr	necting to remote host
	< <u>B</u> ack <u>N</u> ex	t > Proxy	type: 🔨 Use EFT Server's D	MZ Gateway as the proxy

FIGURE 4 - COPY/MOVE ACTION WIZARD

6. The next time the rule is executed, EFT Server will route the connection through the DMZ Gateway residing at 192.168.101.119 over port 44500, en route to the destination address of 74.125.227.180:22

You can see the connection occur by observing the DMZ Gateway's real time logs:

Seer Notification	Thannels Ì 🥌 Client L	isteners Statistics			
Refresh Now	Enable automatic re	fresh Refresh Interv	al (sec): 15 App	ly Refresh Interval	
Server IP Address	Client Bytes Read	Client Bytes Written	Server Bytes Read	Server Bytes Written	Clie
192.168.101.115	16 KB	18,136 KB	18,136 KB	16 KB	_

FIGURE 5 - DMZ GATEWAY STATS VIEW

#### **AWE-INITIATED CONNECTIONS**

You can use the Advanced Workflow Engine's FTP/S and SFTP client actions to broker connections the DMZ Gateway by using AWE's Socks5 proxy option. (EFT 6.2 (AWE 7) only supports FTP/S through Socks5. EFT 6.3 (AWE 8) supports both FTP/S and SFTP through Socks5.)

1. Create a new Advanced Workflow or modify an existing workflow. (Refer to the *EFT Server User Guide* for instructions on how to create Event rules and Copy/Move actions if necessary.)



FIGURE 6 - MODIFY WORKFLOW

2. Inside the workflow editor, create a new Network -> FTP task (action) or modify the final destination host information, the desired protocols, and DMZ Gateway host address and port as Socks5 proxy parameters:

tion Properties	
2	
transaction with a ETP server. Other ETP related commandation with a ETP server.	nds can follow this step. FTP commands are
ted from the "Activity to perform" field. Be sure to end your f	FTP transactions with an "FTP Log Off" step. 🛛 🔍
erties Description Error Causes On Error	
ivity to perform	
redentials	<b>A</b>
Host (i.e ftp.networkautomation.com):	
74.125.227.180 Destination Server A	ddress and Credentials
Username:	Pass <u>w</u> ord:
roslin	••••
Use anonymous log on	
Session:	
FTPSession	
Advanced SETP or ETPS protocol as a	anded Verify destination port
	eeded. Verify destination port.
SETD (Decouverd)	22
	22
FTP log file:	
c:\ftplog.txt	
Overwire existing log file	
Timeout:	Upload Buffer size (bytes):
30 seconds 💌	65536
Use compression	Enable FIPS Mode
SFTP versions:	(T)
Sftp2,Sftp3,Sftp4	*
Ignore SETP Server's Host Key	en (for non-interactive sessions)
C Validate SETP Server's Host Key	
гоху	
Socks5 and DMZ Gateway host address and PNC po	rt
Proxy type:	The automatication
150CKS5	I ose autientication
Proxy host:	Proxy username:
132.100.101.113	
Proxy port:	Proxy password:
44500	
	OK Const
p is enabled	OK Cancer

3. Save your task and test it. Check AWE, DMZ Gateway, or remote host logs to troubleshoot if necessary.