Passive FTP broken in SharePoint Designer 2007

Maybe you got the idea to use SharePoint Designer 2007 for also designing websites which are not related to SharePoint in any way. If those sites are hosted on Linux machines there is the chance that you will run into similar problems like me.

As I was not able to solve these problems in the first place my last resort seemed to be capturing a packet trace to get an idea what is going on under the hood.

If you are not interested in further details you could stop reading here and switch SharePoint Designer to use active FTP mode to fix the problem as follows. Open Internet Options from the Control Panel and uncheck to use passive ftp. This will also disable passive FTP in SharePoint Designer.

Eigenschaften von Internet	×
Allgemein Sicherheit Datenschutz Inhalte	Ţ
Verbindungen Programme Erweitert	
Einstellungen:	
O Niemals	
Menü für persönliche Favoriten aktivieren	
 Nicht verwendete Ordner im Verlauf und in Favoriten schließer Optimierten Bildlauf verwenden 	
Ordneransicht für FTP-Sites aktivieren	
Passives FTP verwenden (für Firewall und DSL-Modem-Kompatibili	tät v
Seitenübergänge aktivieren	Т
Skriptdebugging deaktivieren (Andere)	
 Skriptdebugging deaktivieren (Internet Explorer) Skriptfehler anzeigen 	
URLs immer als UTF-8 senden (Neustart erforderlich)	
URLs in Kurzform anzeigen	
Verknüpfungen im gleichen Fenster öffnen	
Verwenden von AutoVervollständigen Visuelle Stile auf Schaltflächen und Steuerelementen in Webse	
Zeitplan zur Synchronisierung von Offlineobjekten aktivieren 💌	
Wiederherstellen	
OK Abbrechen Ü <u>b</u> ernehme	n

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6	0.029431		192.	168.1	00.2	:4	19	2.16	8.10	DO.2	25	TC	P		ftp > msfw-storage [ACK] Seq=21 Ack=12 Win=5
	0.031049			168.1				2.16				FT			Response: 331 Please specify the password.
	0.031440			168.1				2.16				FT			Request: PASS 12345678
	0.038347			168.1				2.16				TC			ftp > msfw-storage [ACK] Seq=55 Ack=27 Win=5
	0.042619			168.1				2.16				FT			Response: 230 Login successful.
	0.044975			168.1				2.16				FT TC			Request: TYPE I ftp > msfw-storage [ACK] Seg=78 Ack=35 Win=5
	0.045857			$168.1 \\ 168.1$				2.16 2.16				FT			Response: 200 Switching to Binary mode.
	0.049213			168.1				2.10 2.16				FT			Request: PASV
	0.052035			168.1				2.10 2.16				FT			Response: 227 Entering Passive Mode (192,168
	0.052948			168.1				2.16				TC			msfw-s-storage > 11836 [SYN] Seg=0 Win=64240
	0.053593			168.1				2.16				TC			11836 > msfw-s-storage [SYN, ACK] Seg=0 Ack=
18	0.053702		192.	168.1	00.7	5	19	2.16	8.10	00.Z	24	TC	Р		msfw-s-storage > 11836 [ACK] Seg=1 Ack=1 Win
19	0.054021		192.	168.1	.00.2	5	19	2.16	8.10	00.2	24	FT	Р		Request: SIZE generic/acrobat.gif
20	0.058322		192.	168.1	.00.2	4	19	2.16	8.10	00.2	25	FT	Р		Response: 213 227
	0.058681			168.1				2.16				FT			Request: RETR generic/acrobat.gif
, 77	0.060097		192.	168.1	00.2	4	19	2.16	8.10	00.2	5	FT	P		Response: 150 Opening BINARY mode data conne
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	7 Enterir).∖r	'\n			
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	Response	arg:	En1	ering	g Pa	ssive	Mod	e (1	192,3	168,	,100,	24,4	6,60)		
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If you are interested in further details just take a look at the following screen captures:

On Packet number 14 you can see that SharePoint Designer requests passive FTP mode and the FTP server (vsftpd here) enters passive FTP mode and advises SharePoint Designer on packet number 15 to use port 11836 for the data connection.

What follows on packet number 16 to 18 is the TCP three-way-handshake where the data connection is successfully initiated.

All seems to work well until here.

When SharePoint Designer requests to receive additional data during the same session it again request passive FTP mode and the FTP server again enters passive FTP mode this time advising SharePoint Designer on packet number 33 to use Port 50734 for the data connection.

On packet number 34 you can see that SharePoint Designer is simply ignoring this and instead tries to establish a data connection on port 11836 which was used for the previous transfer. Is goes without saying that the FTP server did not listen for a connection on that port and that the connection is terminated by a TCP RST+ACK on packet number 35.

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		0.0620			.168.1				$168.10 \\ 168.10$			FTP-DATA TCP	FTP Data: 227 bytes 11836 > msfw-s-storage [FIN, ACK] Seg=228 A
		0.0628 0.0645			.168.1				168.10 168.10			TCP	msfw-s-storage > 11836 [ACK] Seq=1 Ack=229
		0.0658			.168.1				168.10			TCP	msfw-s-storage > 11836 [ACK] Seq=1 ACK=229 msfw-s-storage > 11836 [FIN, ACK] Seq=1 Ack
		0.0694			.168.1				168.10			TCP	11836 > msfw-s-storage [ACK] Seq=229 Ack=2
		0.0748			.168.1				168.10			FTP	Response: 226 File send OK.
	29 (0.0750	94	192	.168.1	00.25	5	192.3	168.10	0.24		TCP	msfw-storage > ftp [ACK] Seq=93 Ack=266 Win
		0.0782			.168.1				168.10			FTP	Request: TYPE A
		0.0796			.168.1				168.10			FTP	Response: 200 Switching to ASCII mode.
		0.0803			.168.1				168.10			FTP	Request: PASV
		0.0816			.168.1				168.10			FTP	Response: 227 Entering Passive Mode (192,16
		0.0820 0.0828			.168.1				$168.10 \\ 168.10$			TCP TCP	<pre>msfw-replica > 11836 [SYN] Seq=0 win=64240 11836 > msfw-replica [RST, ACK] Seg=1 Ack=1</pre>
		0.2400			.168.1				168.10 168.10			TCP	msfw-storage > ftp [ACK] Seg=107 Ack=348 Wi
		0.5684			.168.1				168.10			TCP	msfw-replica > 11836 [SYN] Seq=0 Win=64240
		0.5885			.168.1				168.10			TCP	11836 > msfw-replica [RST, ACK] Seg=1 Ack=1
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