SFTP / FTPS Support
Posted by s3bastian - 2011/01/30 05:27

I am using the Pro Version of Rainlendar and host my *.ics files on my own FTP server.

Now this is a big security issue since FTP transfers both credentials as well as actual content in plain text.

So my feature request is support for encrypted FTP:

"FTPES - FTP over explicit TLS/SSL"
or
"SFTP - SSH File Transfer Protocol"

quoted from Filezilla

Thanks for the best Calendar I ever used though :)

==========

Re: SFTP / FTPS Support
Posted by Rainy - 2011/01/31 14:45

I think secure ftp should be already supported. Try to use "ftps://" when you define the url.

==========

Re:SFTP / FTPS Support
Posted by s3bastian - 2011/02/01 06:20

Thanks for the tip.

It works but only in implicit TLS/SSL mode and you can also set port with ":21" after the URL

Like "ftps://yourftpserver:21"

I still think FTPES: "FTP over explicit SSL" support would be great feature addition as it the most recent and most secure standard: http://tools.ietf.org/html/rfc2228

==========

Re:SFTP / FTPS Support
Posted by Grimmwolf - 2013/05/22 04:32

I am also trying to connect to a remote calendar using ftps. Using the URL
ftps://XXX:XXX@SERVERNAME.de/Default.ics
I get a connection error. Removing the s so Rainlendar uses:
ftp://XXX:XXX@SERVERNAME.de/Default.ics
I can download and upload the calendar.

I have been unable to find another way to encrypt the transmission of the file. Do you have any suggestions or doesn't it work with rainlendar at all?
(I am using Rainlendar Pro 64bit 2.11.1, registered to a different e-mail address)

==========

Re:SFTP / FTPS Support
Posted by Rainy - 2013/05/23 13:04

Rainlendar uses libcurl for the network access so anything it supports should work with Rainlendar too. If you enable the

debug log you can see all the traffic between Rainlendar and the server which probably helps with debugging.

==========

Re:SFTP / FTPS Support

Posted by Grimmwolf - 2013/05/23 13:50

The problem might be that my server doesn't like implicit encryption:
20:37:47: Netzwerk: CURLINFO_TEXT: About to connect() to xxx.xxxxxxxx.de port 990 (#0)
20:37:47: Netzwerk: CURLINFO_TEXT: Trying 195.78.xxx.xxx...
20:37:48: Netzwerk: CURLINFO_TEXT: Connection refused
20:37:48: Netzwerk: CURLINFO_TEXT: couldn't connect to host
20:37:48: Netzwerk: CURLINFO_TEXT: Closing connection #0

Can I force rainlendar to use explicit encryption on port 21?

==========

Re:SFTP / FTPS Support

Posted by Rainy - 2013/05/24 06:29

You should be able to define the port in the url (ftps://ftp.server.de:21/Default.ics).

==========

Re:SFTP / FTPS Support

Posted by Grimmwolf - 2013/05/24 13:39

I tried your suggestion, this is the error log:
20:34:48: Netzwerk: Downloading: ftps://xxx:xxx@servername.de:21/Default.ics
20:34:48: Netzwerk: CURLINFO_TEXT: About to connect() to servername.de port 21 (#0)
20:34:48: Netzwerk: CURLINFO_TEXT: Trying 195.78.xxx.xxx...
20:34:48: Netzwerk: CURLINFO_TEXT: connected
20:34:48: Netzwerk: CURLINFO_TEXT: Connected to servername.de (195.78.xxx.xxx) port 21 (#0)
20:34:48: DEBUG: Flushed the config to disk (time: 15)
20:34:49: Netzwerk: CURLINFO_TEXT: SSLv3, TLS handshake, Client hello (1):
20:34:49: Netzwerk:
20:34:49: Netzwerk: CURLINFO_TEXT: error:140770FC:SSL routines:SSL23_GET_SERVER_HELLO:unknown protocol
20:34:49: Netzwerk: CURLINFO_TEXT: Closing connection #0
20:34:49: Netzwerk: CURLINFO_TEXT: SSL connect error
20:34:49: Netzwerk: Result: (35) 0 Wrong when connecting with SSL.

I don't know what to do with that. Is this rainlendar trying to use implicit encryption on the wrong port and the server rejecting it?

==========

Re:SFTP / FTPS Support

Posted by Rainy - 2013/05/28 11:50

Your server doesn't seem to support ftps. At least not in port 21.

==========

Re:SFTP / FTPS Support

Posted by Grimmwolf - 2013/05/29 04:42

Well, that's the thing. I use WinSCP to connect to the server using the same credentials. The settings for WinSCP are:

file protocol: FTP, SSL explicit encryption
The port is set to 21 when switching to explicit encryption, the implicit setting changes it to 990.

Using those settings for explicit encryption, I can connect to the server. With the implicit, it doesn't work.

On my tablet, I use ICalSync to update the calendar. There I enter the ftps://XXX:XXX@servername.de/Default.ics link and it is able to connect to the server.

So my guess is that rainlendar uses implicit encryption by default without the possibility to switch to explicit encryption, as already stated by the initial poster. From my logs rainlendar sends a "Client Hello" to the server, only found for implicit encryption. This happens even when forced to port 21, even though this is not allowed for implicit.

Could you implement a switch for libcurl somehow to enable explicit encryption?

==========

Re:SFTP / FTPS Support

Posted by Rainy - 2013/06/06 11:00

There seems to be a flag in libcurl which forces the ftp connection to use ssl which might work. I have no means to test it myself but I can probably create a settings to enabled it.

==========

Re:SFTP / FTPS Support

Posted by Grimmwolf - 2013/06/06 12:03

That would be very cool. I will happily try it and give you feedback. :)

==========