CentOS 6 - FTP Server

Vsftpd Over SSL/TLS

2014/08/16

	Configure Vsftpd to use SSL/TLS.
[1]	Create certificates.

[root@www ~]#

cd /etc/pki/tls/certs

[root@www certs]#

openssl req -x509 -nodes -newkey rsa:2048 -keyout vsftpd.pem -out vsftpd.pem -days 365

Generating a 2048 bit RSA private key
.....++++++
.....++++++
writing new private key to '/etc/pki/tls/certs/vsftpd.pem'

You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.

Country Name (2 letter code) [AU]:

JP

country

State or Province Name (full name) [Some-State]:

Hiroshima

State

Locality Name (eg, city) []:

Hiroshima

city

Organization Name (eg, company) [Internet Widgits Pty Ltd]:

Server World

company

Organizational Unit Name (eg, section) []:

IT Solution

department

Common Name (eg, YOUR name) []:

www.srv.world

server's FQDN

Email Address []:

xxx@srv.world

admin's email

[root@www certs]#

chmod 600 vsftpd.pem

[2]	Configure Vsftpd.

[root@www ~]#

vi /etc/vsftpd/vsftpd.conf

add follows to the end

```
rsa_cert_file=/etc/pki/tls/certs/vsftpd.pem
ssl_enable=YES
ssl_ciphers=HIGH
ssl_tlsv1=YES
ssl_sslv2=NO
ssl_sslv3=NO
force_local_data_ssl=YES
force_local_logins_ssl=YES
```

[root@www ~]#

/etc/rc.d/init.d/vsftpd restart

```
Shutting down vsftpd:                [  OK  ]
Starting vsftpd for vsftpd:          [  OK  ]
```

[3]	If IPTables is running, allow FTP port and fixed PASV ports. For "-I INPUT 5" section below, Replace it to your own environment.

[root@www ~]#

vi /etc/vsftpd/vsftpd.conf

add to the end: fix PASV ports

pasv_enable=YES
pasv_min_port=21000
pasv_max_port=21010

[root@www ~]#

/etc/rc.d/init.d/vsftpd restart

[root@www ~]#

iptables -I INPUT 5 -p tcp -m state --state NEW -m tcp --dport 21 -j ACCEPT

[root@www ~]#

iptables -I INPUT 5 -p tcp -m state --state NEW -m tcp --dport 21000:21010 -j ACCEPT

FTP Client : CentOS

	Configure FTP Client to use FTPS connection.
[4]	Install FTP Client and configure like follows.

[redhat@dlp ~]$

vi ~/.lftprc

create new

set ftp:ssl-auth TLS
set ftp:ssl-force true
set ftp:ssl-protect-list yes
set ftp:ssl-protect-data yes
set ftp:ssl-protect-fxp yes
set ssl:verify-certificate no

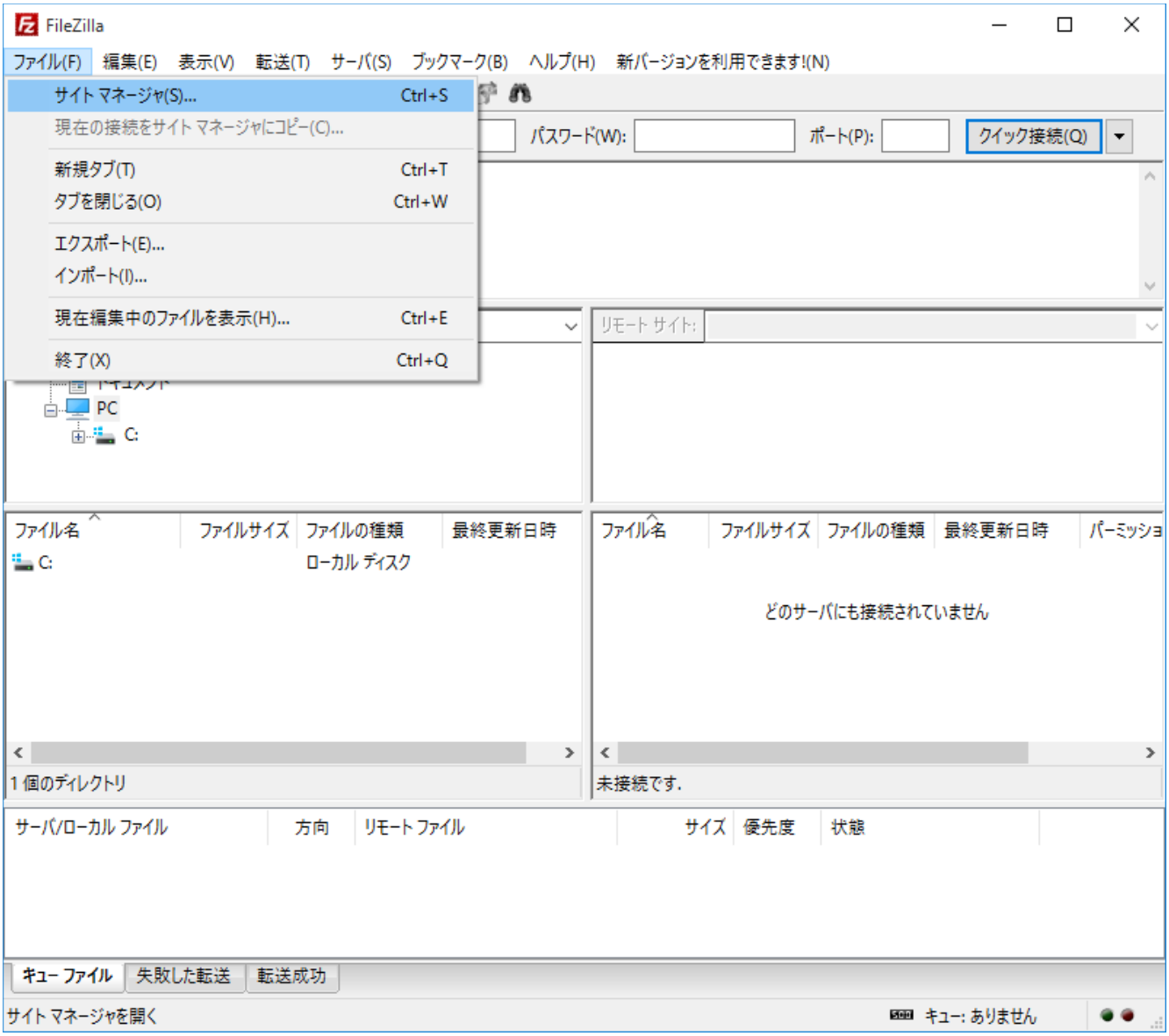
[redhat@dlp ~]$

lftp -u cent www.srv.world

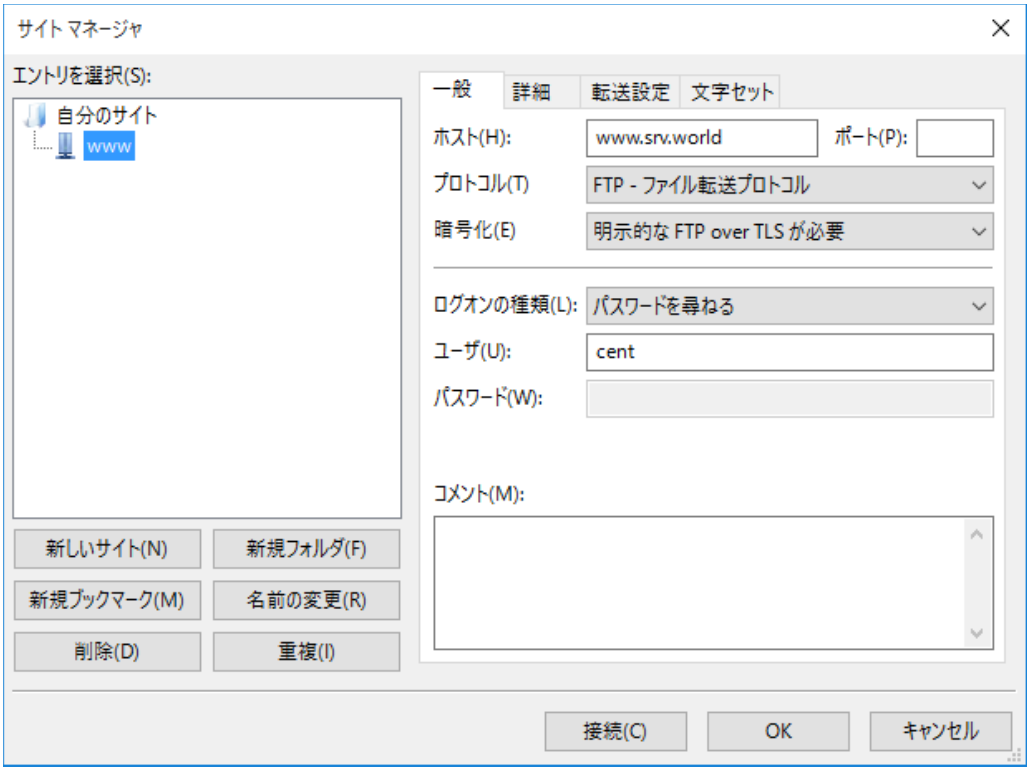
Password:
lftp cent@www.srv.world:~>

FTP Client : Windows

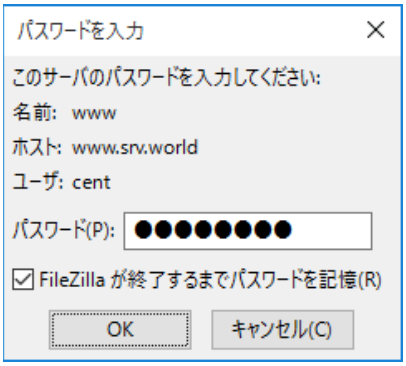
[5]	For example of FileZilla on Windows, Open 'File'-'Site Manager'.



[6]	Input user info like follows, for encryption field, select "explicit FTP over TLS".

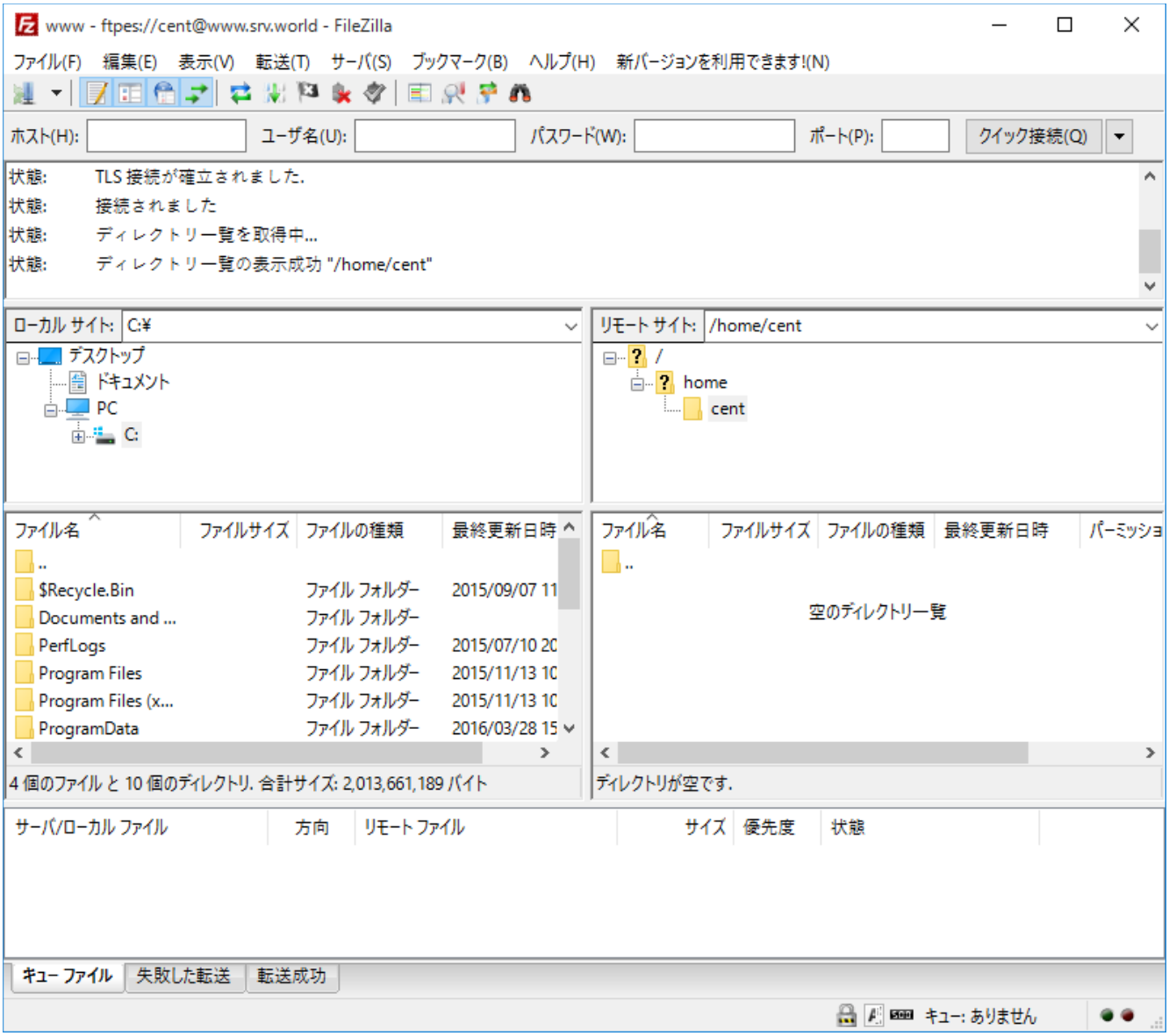


[7]	The user's Password is required. Input it.



[8]	The following waring is shown because the certificate is own created, it's no ploblem. Go next.

[9]	Just connected with FTPS.



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