



- server.crt ??????
- uca\_1.crt ???#1?
- uca\_2.crt ???#2?

??????????????

#> cat server.crt

```
-----BEGIN CERTIFICATE-----
MIIFNjCCBB6gAwIBAgIQR+AAAAANxpF4wYFv15COzANBgkqhkiG9w0BAQsFADBv
MQswCQYDVQQGEWJUVzESMBAGA1UEChMJVEFJVFJVF0FOLUNBMR0wGAYDVQQLExFTZWN1
cmUgU1NMIENlcnRpZmlj
...
KiZDoZe0ziN7Ustrzb5CNgzZj9tP09KPF8wepQlMWOu5lHb84IroCHaAhb56zbwmy
4TU/SwImtZT5L+j68W3AhqeYX7u42lscI/Qda7b/nES/lcN8yH9y7zKP6PriCP9A
np13mawkqJi34dkoFobj9tqitigMRs82dcMVVzbBEUK8e4e7pYoLe0iP
-----END CERTIFICATE-----
```

#> openssl x509 -noout -text -in server.crt

Certificate:

Data:

Version: 3 (0x2)

Serial Number:

47:e0:00:00:00:00:37:1a:45:e3:06:05:be:5e:42:3b

Signature Algorithm: sha256WithRSAEncryption      ?: Issuer ????????

Issuer: C=TW, O=TAIWAN-CA, OU=Secure SSL Sub-CA, CN=TWCA Secure SSL Certification Authority

Validity

Not Before: Jan 28 09:48:26 2016 GMT      ?: ??????

Not After : Jan 28 15:59:59 2019 GMT

Subject: C=TW, ST=TAIWAN, L=Taoyuan, O=Your Company Corp., OU=IT, CN=your.domain.name

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (2048 bit)

Modulus (2048 bit):

00:a7:6c:96:42:5c:84:ca:ee:82:1d:de:49:5e:d5:  
d6:37:2b:78:5f:48:57:df:55:33:84:06:9a:49:af:  
d5:ca:0f:bf:44:e1:0c:c6:af:17:8f:e6:0c:19:34:  
ed:7b:6c:26:02:03:38:f1:af:2e:70:0c:3d:d9:0a:  
71:78:26:fb:9f:75:5e:34:c4:6e:0c:44:74:99:40:  
19:60:41:fb:dd:71:0f:fe:2f:82:34:cf:9d:a0:08:

...

a6:ee:b9:3e:24:4a:af:c5:62:7f:1b:8a:03:a9:37:  
83:45:43:be:b4:cc:ac:0a:54:62:89:0e:f3:74:10:  
71:b9:1c:1f:47:00:ba:3d:43:f5:32:51:b2:99:e1:  
4f:65

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Authority Key Identifier:

keyid:F8:07:C2:68:24:FF:85:95:CB:DB:1E:E3:33:9C:2A:4F:97:20:56:7B

X509v3 Subject Key Identifier:

4D:1D:44:34:1D:D6:07:64:4A:98:F2:BD:B8:64:F6:6E:21:0B:FC:8D:AA:93:CA:0A:60:AD:10:C7:2A:59:FC:FE

X509v3 CRL Distribution Points:

URI:http://sslserver.twca.com.tw/sslserver/Securessl\_revoke\_sha2\_2014.crl

X509v3 Subject Alternative Name:

DNS:ftp.winfoundry.com

Authority Information Access:

CA Issuers - URI:http://sslserver.twca.com.tw/cacert/secure\_sha2\_2014.crt

OCSP - URI:http://twcasslocsp.twca.com.tw/

X509v3 Certificate Policies:

Policy: 1.3.6.1.4.1.40869.1.1.25

CPS: www.twca.com.tw

X509v3 Basic Constraints:

CA:FALSE

X509v3 Key Usage: critical

Digital Signature, Key Encipherment

X509v3 Extended Key Usage:

TLS Web Server Authentication, TLS Web Client Authentication

Signature Algorithm: sha256WithRSAEncryption

6e:54:75:c3:b6:0f:b1:73:93:c0:28:c9:b3:ee:91:79:1e:1b:

42:46:90:b1:81:0c:d8:3a:2c:94:95:7c:03:d3:b4:83:48:a9:

13:f0:06:23:04:b6:ca:21:c6:49:2e:0a:ee:f9:54:70:f7:15:

...

0c:46:cf:36:75:c3:15:57:36:c1:11:42:bc:7b:87:bb:a5:8a:

0b:7b:48:8f

???????????????? server.crt

cp server.crt /etc/vsftpd/cert/mydomain.crt

chown root:root /etc/vsftpd/cert/mydomain.crt

chmod 0600 /etc/vsftpd/cert/mydomain.crt

TIP?

??

?? vsftpd

??????

1. mydomain.key ??????



????????

Modulus (2048 bit):

00:d8:c9:f1:a5:4e:11:62:7d:f4:03:fd:22:fd:71:  
26:a3:48:8c:bb:0e:d5:69:ae:9c:2e:f0:89:7a:ea:  
97:05:44:07:7d:c8:08:0a:83:3b:72:7d:1a:f3:d7:  
...

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- [SECURE LINUX FTP SERVER \(VSFTPD SERVER\) USING SSL ENCRYPTION / TLS ENCRYPTION](#)