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1.??????????????

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```
openssl x509 -pubkey -in /etc/certs/hoge.example.com.crt -noout | openssl md5
```

? (stdin)= []

/etc/certs/hoge.example.com.crt????SSL????????????

- ???????????????

```
openssl pkey -pubout -in /etc/private/hoge.example.com.key | openssl md5
```

? (stdin)= []

/etc/private/hoge.example.com.key????SSL????????????

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2a.???????????????? (????????????)

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```
openssl x509 -issuer_hash -noout -in /etc/certs/hoge.example.com.crt
```

/etc/certs/hoge.example.com.crt????SSL????????????

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```
openssl x509 -subject_hash -noout -in /etc/certs/hoge.sample.com.CA.crt
```

/etc/certs/hoge.sample.com.CA.crt????SSL????????????????

??2??

2b.???????????????? (????????????????)

Let's Encrypt????????????????????

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```
openssl x509 -issuer_hash -noout -in /etc/certs/hoge.example.com.crt
```

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```
sed -n -e'1d' -e'/BEGIN/, $p' /etc/certs/hoge.example.com.crt | openssl x509 -subject_hash -noout
```

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```
openssl x509 -noout -dates -subject -in /etc/certs/hoge.sample.com.crt
```

/etc/certs/hoge.sample.com.crt????????????????

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```
notBefore=Jan 26 06:01:26 2023 GMT
notAfter=Feb 22 14:59:00 2024 GMT
subject= /C=JP/ST=Kuken-Island/L=Rasen-Boden/O=Atelier-of-Ryza/CN=atelier.reisalin.com
```

????CSR????CN????????????