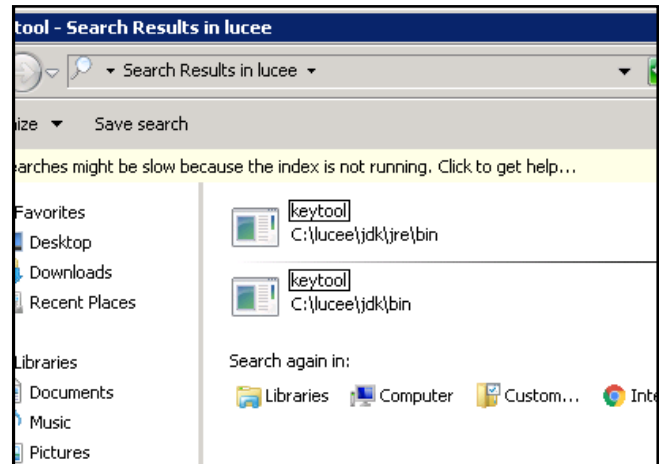


Cara nak install cert untuk content filtering MAMPU ke dalam Lucee.

ERROR : Connection Failure

1. download cert yang dibekalkan oleh MAMPU (SSL_Extended.cer)
2. Save ke c:\
3. Buat carian keytools.exe dalam folder Lucee.
Biasanya keytools ada dalam folder {lucee folder}\jdk\jre\bin & {lucee folder}\jdk\bin
4. Guna cmd prompt. Right click > Run As Administrator
5. Taip directori dimana keytool.exe berada. Dalam kes ni {lucee folder}\jdk\jre\bin .
6. Pada cmd prompt {lucee folder}\jdk\jre\bin >
7. Taip **keytool -import -alias {nama_cert} -keystore {lucee folder}\lib\lucee-server\context\security\cacerts -file {lokasi fail}\SSL_Extender.cer**
8. Tekan **ENTER**
9. System akan minta untuk **ENTER KEYSTORE PASSWORD**
10. Taip keystore password = **changeit** (default password dalam Lucee)
11. Tekan **ENTER**
12. Mesej **TRUST THIS CERTIFICATE? [NO]** akan dipaparkan.
13. Taip **yes**
14. Anda berjaya jika mesej **CERTIFICATE WAS ADDED TO KEYSTORE**(rujuk gambarajah di bawah)



```
C:\lucee\jdk\jre\bin>keytool -import -alias MAMPUCert -keystore c:\lucee\lib\lucee-server\context\security\cacerts -file c:\SSL_Extended.cer
Enter keystore password:
Owner: EMAILADDRESS=servicedesk@mampu.gov.my, OU=PCN, O=MAMPU, L=Putrajaya, ST=Wilayah Persekutuan Putrajaya, C=MY, CN=MAMPU
Issuer: EMAILADDRESS=servicedesk@mampu.gov.my, OU=PCN, O=MAMPU, L=Putrajaya, ST=Wilayah Persekutuan Putrajaya, C=MY, CN=MAMPU
Serial number: fb16ee6676a0d4fb
Valid from: Wed Feb 04 11:58:26 SGT 2015 until: Sat Feb 01 11:58:26 SGT 2025
Certificate fingerprints:
    MD5: 68:EE:73:12:DB:94:05:1E:21:2B:F9:A8:2A:93:78:0F
    SHA1: A3:FA:87:13:7C:1A:66:6E:32:31:62:66:2A:9A:87:B0:5A:0B:6D:8A
    SHA256: 25:28:F3:D0:FD:78:1B:78:73:D1:63:1A:B8:F7:B7:65:56:34:E0:E3:36:
C8:7C:C7:EB:8F:BB:14:9D:E4:A7:30
Signature algorithm name: SHA1withRSA
Version: 3

Extensions:
#1: ObjectId: 2.5.29.35 Criticality=false
AuthorityKeyIdentifier [
KeyIdentifier [
0000: 31 2A 3E 03 8F B6 C8 FA 75 91 34 B5 20 6F F3 CF 1*>.....u.4. o..
0010: 22 A2 06 AD "..."
]
]

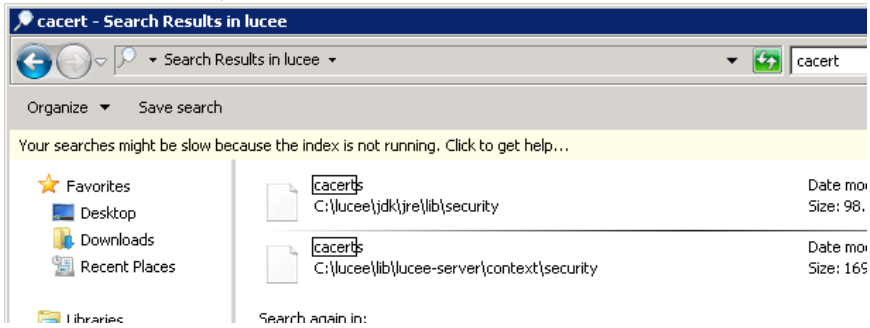
#2: ObjectId: 2.5.29.19 Criticality=false
BasicConstraints [
CA:true
PathLen:2147483647
]

#3: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KeyIdentifier [
0000: 31 2A 3E 03 8F B6 C8 FA 75 91 34 B5 20 6F F3 CF 1*>.....u.4. o..
0010: 22 A2 06 AD "..."
]
]

Trust this certificate? [no]: yes
Certificate was added to keystore

C:\lucee\jdk\jre\bin>
```

15. Jika masih ERROR ulang perkara yang sama utk cacerts yang lain yang terdapat dalam lucee folder. Tukar kat keystore statement



16.