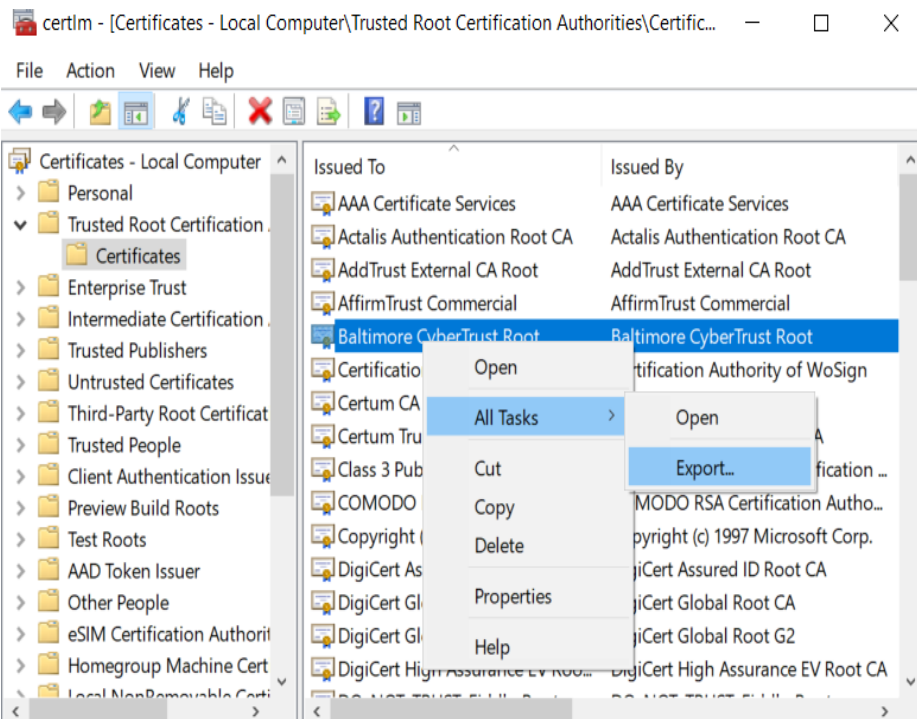


Self IR HA SSL Certificate issue troubleshooting

Last updated by | Veena Pachauri | Mar 8, 2023 at 11:10 PM PST

Self-IR HA SSL Certificate issue troubleshooting

Monday, March 23, 2020
9:46 AM

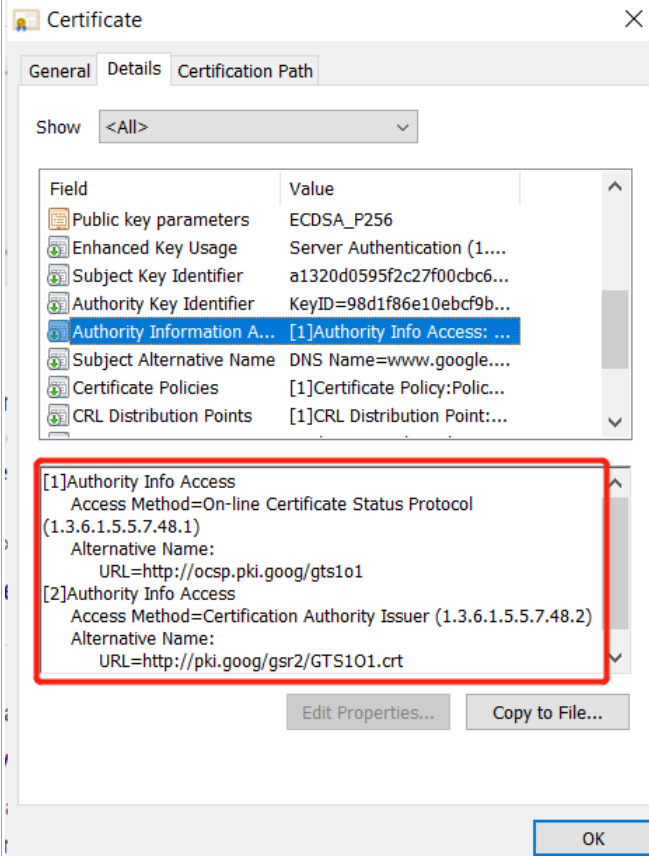
SME	Bohan Zhan; Brian Wang
Symptoms	<p>Self-IR work node has reported the error below:</p> <p>Failed to pull shared states from primary node net.tcp://b2bdp-pprd-ir02.cloud.corp.telstra.com:8060/ExternalService.svc/. Activity ID: 1cba7381-8eda-498f-afe9-8590d870505b The X.509 certificate CN=b2bdp-pprd-ir02.cloud.corp.telstra.com, OU=Customer Product and Data, O=Telstra Corporation Limited, L=Melbourne, S=VIC, C=AU chain building failed. The certificate that was used has a trust chain that cannot be verified. Replace the certificate or change the certificateValidationMode. The revocation function was unable to check revocation because the revocation server was offline.</p> <p>The X.509 certificate CN=b2bdp-pprd-ir02.cloud.corp.telstra.com, OU=Customer Product and Data, O=Telstra Corporation Limited, L=Melbourne, S=VIC, C=AU chain building failed. The certificate that was used has a trust chain that cannot be verified. Replace the certificate or change the certificateValidationMode. The revocation function was unable to check revocation because the revocation server was offline.</p>
Cause	<p>When we handle cases related to SSL/TLS handshake, we might encounter some issues related to certificate chain verification. Here I provided a quick and intuitive way to troubleshoot X.509 certificate chain build failure .</p> <p>Export certificate which need to be verified.</p> <p>1.Go to manage computer certificate and find the cert which you want to check and right click All task -> Export</p>  <p>The screenshot shows the Windows Certificate Manager window titled 'certlm - [Certificates - Local Computer\Trusted Root Certification Authorities\Certific...'. The left pane shows the tree structure with 'Certificates - Local Computer' expanded, then 'Trusted Root Certification Authorities', and finally 'Certificates'. The right pane lists various certificates, with 'Baltimore CyberTrust Root' selected. A context menu is open over the selected certificate, showing options like 'Open', 'All Tasks', 'Cut', 'Copy', 'Delete', 'Properties', and 'Help'. The 'All Tasks' sub-menu is open, showing 'Open' and 'Export...'. The 'Export...' option is highlighted.</p> <p>2. Copy the exported certificate to the client machine.</p> <p>3. Run below command in CMD in client side, please replace the highlight part with the path to the cert and path to the output log file</p> <pre>Certutil -verify -urlfetch <certificate path> > <output txt file path></pre> <p>Sample:</p> <pre>Certutil -verify -urlfetch c:\users\bohzhnan\desktop\servercert02.cer > c:\users\bohzhnan\desktop\Certinfo.txt</pre> <p>4. Check if there is any error in the output txt file. The error summary will be in the end of the txt file.</p> <p>For example:</p> <pre>The revocation function was unable to check revocation because the revocation server was offline. 0x80092013 (-2146885613 CRYPT_E_REVOCATION_OFFLINE) Revocation check skipped -- server offline ERROR: Verifying leaf certificate revocation status returned The revocation function was unable to check revocation because the revocation server was offline. 0x80092013 (-2146885613 CR Certutil: The revocation function was unable to check revocation because the revocation server was offline. Certutil: -verify command completed successfully.</pre> <p>If you do not see any error and the end of the log file show as below, you can consider the certificate chain able to build up successfully in the client machine:</p>

```

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Verified Issuance Policies: None
Verified Application Policies:
    1.3.6.1.5.5.7.3.2 Client Authentication
Leaf certificate revocation check passed
CertUtil: -verify command completed successfully.
no errors

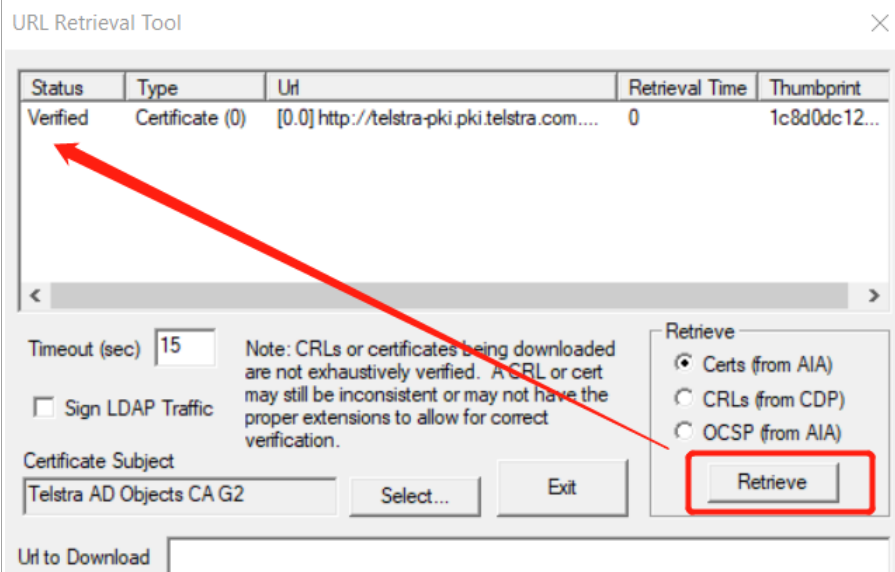
```

Resolution If there are AIA, CDP and OCSP configured in the certificate file. We can check it in a more intuitive way.
You can get these info by checking the details of a certificate.



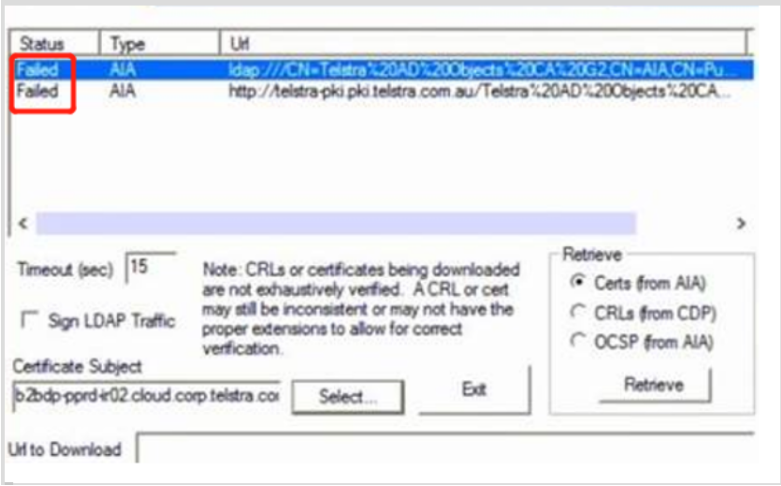
Run below command:
Certutil -URL <certificate path>

Then the "URL Retrieval tool" will be opened.
You can verify the Certs from AIA, CDP and OCSP one by one by clicking the "Retrieve" button



The certificate chain can be built up successfully if Certs from AIA is "Verified" and either CDP or OCSP is "Verified"

If you see failure like below when retrieving AIA, CDP



Please further capture Netmon trace and work with network team to let the client machine able connect to target URL (Please note, one of the http path and ldap path able to be verified will be enough)

More Information: <https://portal.microsoftcm.com/imp/v3/incidents/details/178562266/home>

Tags: Provide some tags that may help search

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