This directory contains test certificates used for testing ssl handling.

These keystores and certificates can be used via applying the <code>elasticsearch.test-with-ssl</code> plugin.

The generated certificates are valid till 05, Jun 2030.

The certificates are generated using catch-all SAN in the following procedure:

- 1. Generate the node's keystore: keytool -genkey -alias test-node -keystore test-node.jks -keyalg RSA -keysize 2048 -validity 3654 dname CN="Elasticsearch Build Test Infrastructure" -keypass keypass -storepass keypass -ext san=dns:localhost.dns:localhost.localdomain.dns:localhost4.dns:localdomain4.dns:localhost6.localdomain
- 2. Generate the client's keystore: keytool -genkey -alias test-client -keystore test-client.jks -keyalg RSA -keysize 2048 -validity 3654 -dname CN="Elasticsearch Build Test Infrastructure" -keypass keypass -storepass keypass -ext
- san=dns:localhost,dns:localhost.localdomain,dns:localhost4,dns:localhost4.localdomain4,dns:localhost6,dns:localhost6.localdomain
- 3. Export the node's certificate: keytool -export -alias test-node -keystore test-node.jks -storepass keypass -file test-node.crt
- 4. Import the node certificate in the client's keystore: keystool -import -alias test-node -keystore test-client.jks -storepass keypass -file test-node.crt -noprompt
- 5. Export the client's certificate: keytool -export -alias test-client -keystore test-client.jks -storepass keypass -file test-client.crt
- 6. Import the client certificate in the node's keystore: keytool -import -alias test-client -keystore test-node.jks -storepass keypass -file test-client.crt -noprompt
- 7. Convert the node's keystore to PKC\$#12 temporarily so that we can export the private key (as keytool doesn't allow this) keytool -importkeystore srckeystore test-node.jks -srcstorepass keypass -destkeystore test-node.p12 -deststoretype PKC\$12 -deststorepass keypass
- 8. Export the node's private key openssl pkcs12 -in test-node.pl2 -passin pass:keypass -nocerts -passout pass:test-node-key-password -out test-node.key
- 9. Convert the client's keystore to PKCS#12 temporarily so that we can export the private key (as keytool doesn't allow this) keytool -importkeystore srckeystore test-client.jks -srcstorepass keypass -destkeystore test-client.p12 -deststoretype PKCS12 -deststorepass keypass
- 10. Export the client's private key openssl pkcs12 -in test-client.p12 -passin pass:keypass -nocerts -passout pass:test-client-key-password -out test-client.key