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Spring Cloud Config

- Added support for database backends
- Added support for Gitee webhooks
- Added the ability to skip SSL validation for Git and Vault backends

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```
server-unknown:~>dataflow config server --url http://localhost:9393 --username myuser
Password:
Successfully targeted http://localhost:9393
dataflow:~>
```

Spring RestAPI RestTemplate . HTTP? HTTPS 가 . java.security.cert.CertificateException: No name matching localhost found unable to find valid certification path to requested target 1. RestTemplate /** Rest API , ssl * @param ignoreSsl * @return * @throws KeyStoreException * @throws NoSuchAlgorithmException * @throws KeyManagementException * public static RestTemplate makeRestTemplate(boolean ignoreSsl) throws KeyStoreException, NoSuchAlgorithmException, KeyManagementException { if(ignoreSsl) { TrustStrategy acceptingTrustStrategy = (X509Certificate[] chain, String authType) -> true; SSLContext sslContext = org.apache.http.ssl.SSLContexts.custom().loadTrustMaterial(null, acceptingTrustStrategy).build(); SSLConnectionSocketFactory csf = new SSLConnectionSocketFactory(sslContext, new NoopHostnameVerifier()); CloseableHttpClient httpClient = HttpClients.custom().setSSLSocketFactory(csf).build(); HttpComponentsClientHttpRequestFactory requestFactory = new HttpComponentsClientHttpRequestFactory(); requestFactory.setHttpClient(httpClient); requestFactory.setConnectTimeout(3 * 1000); requestFactory.setReadTimeout(3 * 1000); return new RestTemplate(requestFactory); } else { return new RestTemplate(); } } 2. public static boolean remove(String url, String id) { try { RestTemplate rest = makeRestTemplate(true); URI uri = URI.create(url + "/" + id); HttpHeaders headers = new HttpHeaders(); HttpEntity entity = new HttpEntity(headers); ResponseEntity res = rest.exchange(uri, HttpMethod.DELETE, entity, String.class); log.info("status:" + res.getStatusCodeValue()); return res.getStatusCodeValue() == 200; } catch (Exception e) { log.error("API : " + e.getMessage(), e); return false; } } [Back end] RestTemplate SSL ignore (PKIX path building failed) RestTemplate API . . API java (keystore) reference-m1.history.com Instantly share code, notes, and snippets. You can't perform that action at this time. You signed in with another tab or window. Reload to refresh your session. You signed out in another tab or window. Reload to refresh your session. How to disable SSL certificate checking with Spring RestTemplate? (使用RestTemplate访问https时禁用证书检查) ***** I am trying to write an integration test where our test launches an embedded HTTPS server using Simple. I created a self-signed certificate using keytool and am able to access the server using a browser (specifically Chrome, and I do get a warning about the self-signed certificate). However, when I try to connect using Spring RestTemplate, I get a ResourceAccessException: org.springframework.web.client.ResourceAccessException: I/O error on GET request for " : sun.security.validator.ValidatorException: PKIX path building failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target; nested exception is javax.net.ssl.SSLHandshakeException: sun.security.validator.ValidatorException: PKIX path building failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target at org.springframework.web.client.RestTemplate.doExecute(RestTemplate.java:557) at org.springframework.web.client.RestTemplate.execute(RestTemplate.java:502) at org.springframework.web.client.RestTemplate.exchange(RestTemplate.java:444) at net.intelij.rt.execution.junit.JUnit4Runner.runChild(BlockJUnit4ClassRunner.java:50) at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method) at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62) at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43) at org.junit.runners.model.FrameworkMethod\$1.runReflectiveCall(FrameworkMethod.java:47) at org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12) at org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:44) at org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:17) at org.junit.internal.runners.statements.RunBefores.evaluate(RunBefores.java:26) at org.junit.runners.ParentRunner\$3.run(ParentRunner.java:238) at org.junit.runners.ParentRunner\$1.schedule(ParentRunner.java:63) at org.junit.runners.ParentRunner.runChildren(ParentRunner.java:236) at org.junit.runners.ParentRunner.access\$000(ParentRunner.java:53) at org.junit.runners.ParentRunner\$2.evaluate(ParentRunner.java:229) at org.junit.internal.runners.statements.RunBefores.evaluate(RunBefores.java:26) at org.junit.internal.runners.statements.RunAfters.evaluate(RunAfters.java:27) at org.junit.runners.ParentRunner.run(ParentRunner.java:309) at org.junit.runner.JUnitCore.run(JUnitCore.java:160) at com.intellij.junit4.JUnit4IdeaTestRunner.startRunnerWithArgs(JUnit4IdeaTestRunner.java:74) at com.intellij.rt.execution.junit.JUnit4TestRunner.main(JUnit4TestRunner.java:211) at com.intellij.rt.execution.junit.JUnit4TestRunner.main(JUnit4TestRunner.java:211) at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method) at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62) at com.intellij.rt.execution.application.AppMain.main(AppMain.java:134) Caused by: javax.net.ssl.SSLHandshakeException: sun.security.validator.ValidatorException: PKIX path building failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target at sun.security.ssl.SSLException(Alerts.java:192) at sun.security.ssl.SSLContextImpl.fatal(SSLContextImpl.java:1917) at sun.security.ssl.Handshaker.fatalSE(Handshaker.java:301) at sun.security.ssl.Handshaker.fatalSE(Handshaker.java:295) at sun.security.ssl.ClientHandshaker.serverCertificate(ClientHandshaker.java:156) at sun.security.ssl.Handshaker.processLoop(Handshaker.java:925) at sun.security.ssl.Handshaker.process_record(Handshaker.java:860) at sun.security.ssl.SSLContextImpl.readRecord(SSLContextImpl.java:1043) at sun.security.ssl.SSLContextImpl.performInitialHandshake(SSLContextImpl.java:1343) at sun.security.ssl.SSLContextImpl.startHandshake(SSLContextImpl.java:1371) at sun.security.ssl.SSLContextImpl.startHandshake(SSLContextImpl.java:1355) at sun.net.www.protocol.https.HttpsClient.afterConnect(HttpsClient.java:563) at sun.net.www.protocol.https.AbstractDelegateHttpsURLConnection.connect(AbstractDelegateHttpsURLConnection.java:185) at sun.net.www.protocol.https.HttpsURLConnectionImpl.connect(HttpsURLConnectionImpl.java:153) at org.springframework.http.client.SimpleBufferingClientHttpRequest.executeInternal(SimpleBufferingClientHttpRequest.java:78) at org.springframework.http.client.AbstractBufferingClientHttpRequest.executeInternal(AbstractBufferingClientHttpRequest.java:48) at org.springframework.http.client.AbstractClientHttpRequest.execute(AbstractClientHttpRequest.java:52) at org.springframework.web.client.RestTemplate.doExecute(RestTemplate.java:541) ... 33 more Caused by: sun.security.validator.ValidatorException: PKIX path building failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target at sun.security.validator.Validator.validate(Validator.java:260) at sun.security.ssl.X509TrustManagerImpl.validate(X509TrustManagerImpl.java:324) at sun.security.ssl.X509TrustManagerImpl.checkTrusted(X509TrustManagerImpl.java:229) at sun.security.ssl.X509TrustManagerImpl.checkServerTrusted(X509TrustManagerImpl.java:124) at sun.security.ssl.ClientHandshaker.serverCertificate(ClientHandshaker.java:1351) ... 47 more Caused by: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target at sun.security.provider.certpath.SunCertPathBuilder.engineBuild(SunCertPathBuilder.java:131) at sun.security.cert.CertPathBuilder.build(CertPathBuilder.java:280) at sun.security.validator.PKIXValidator.doBuild(PKIXValidator.java:382) ... 53 more From other questions and blog posts I've seen the advice to replace the HostnameVerifier with something like private static final HostnameVerifier PROMISCUOUS_VERIFIER = (s, sslSession) -> true; And I've set it both globally and on the RestTemplate itself: HttpsURLConnection.setDefaultHostnameVerifier(PROMISCUOUS_VERIFIER); ... and on the RestTemplate itself: final RestTemplate restTemplate = new RestTemplate(); restTemplate.setRequestFactory(new SimpleClientHttpRequestFactory() { @Override protected void prepareConnection(HttpURLConnection connection, String httpMethod) throws IOException { if(connection instanceof HttpsURLConnection) { ((HttpsURLConnection) connection).setHostnameVerifier(PROMISCUOUS_VERIFIER); } super.prepareConnection(connection, httpMethod); } }; Yet, I am still getting the above error. How can I get around it? Installing the certificate locally outside of the unit test is not an option as then it would need to get installed manually on every dev machine and build server and would cause an avalanche of red tape. We need SSL since we are testing a library that sits on top of RestTemplate and that we are configuring it correctly. I am using Java 8 (but could use 7) and Spring 4.0.3 . answer1: I wish I still had a link to the source that lead me in this direction, but this is the code that ended up working for me. By looking over a JavaDoc for X509TrustManager it looks like the way the TrustManagers work is by returning nothing on successful validation, otherwise throwing an exception. Thus, with a null implementation, it is treated as a successful validation. Then you remove all other implementations. import javax.net.ssl.*; import java.security.*; import java.security.cert.CertificateException; import java.security.cert.X509Certificate; public final class SSLUtil { private static final TrustManager[] UNQUESTIONING_TRUST_MANAGER = new TrustManager[] { new X509TrustManager() { public java.security.cert.X509Certificate[] getAcceptedIssuers() { return null; } public void checkClientTrusted(X509Certificate[] certs, String authType) {} } }; public static void turnOffSslChecking() throws NoSuchAlgorithmException, KeyManagementException { // Install the all-trusting trust manager final SSLContext sc = SSLContext.getInstance("SSL"); sc.init(null, UNQUESTIONING_TRUST_MANAGER, null); HttpsURLConnection.setDefaultSSLContext(sc.getSocketFactory()); } public static void turnOnSslChecking() throws KeyManagementException, NoSuchAlgorithmException { // Return it to the initial state (discovered by reflection, now hardcoded) SSLContext.getInstance("SSL").init(null, null, null); } private SSLUtil() throw new UnsupportedOperationException("Do not instantiate libraries."); } } answer2: You can also register your keystore : private void registerKeyStore(String keyStoreName) { try { ClassLoader classLoader = this.getClass().getClassLoader(); InputStream keyStoreInputStream = classLoader.getResourceAsStream(keyStoreName); if(keyStoreInputStream == null) { throw new FileNotFoundException("Could not find file named " + keyStoreName + " in the CLASSPATH"); } //load the keystore KeyStore keystore = KeyStore.getInstance(KeyStore.getDefaultType()); keystore.load(keyStoreInputStream, null); //add to known keystore TrustManagerFactory trustManagerFactory = TrustManagerFactory.getInstance(TrustManagerFactory.getDefaultAlgorithm()); trustManagerFactory.init(keystore); //default SSL connections are initialized with the keystore above TrustManager[] trustManagers = trustManagerFactory.getTrustManagers(); SSLContext sc = SSLContext.getInstance("SSL"); sc.init(null, trustManagers, null); SSLContext.setDefault(sc); } catch (IOException | GeneralSecurityException e) { throw new RuntimeException(e); } } answer3: Here's a solution where security checking is disabled (for example, conversing with the localhost) Also, some of the solutions I've seen now contain deprecated methods and such. /** * @param configFile * @param ipAddress * @param password * @throws MalformedURLException * public Upgrade(String configFile, String ipAddress, String userId, String password) { configFile = configFile; baseUri = "https://" + ipAddress + "/" + PORT + "/"; restTemplate = new RestTemplate(createSecureTransport(userId, password, ipAddress, PORT)); restTemplate.getMessageConverters().add(new MappingJacksonHttpMessageConverter()); restTemplate.setMessageConverters().add(new StringHttpMessageConverter()); ClientHttpRequestFactory createSecureTransport(String username, String password, String host, int port) { HostnameVerifier nullHostnameVerifier = new HostnameVerifier() { public boolean verify(String hostname, SSLSession session) { return true; } }; UsernamePasswordCredentials credentials = new UsernamePasswordCredentials(username, password); CredentialsProvider credentialsProvider = new BasicCredentialsProvider(); credentialsProvider.setCredentials(new AuthScope(AuthScope.ANY_HOST, AuthScope.ANY_PORT, AuthScope.ANY_REALM), credentials); HttpClient client = HttpClientBuilder.create().setSSLHostnameVerifier(nullHostnameVerifier).setSSLContext(createContext()).setDefaultCredentialsProvider(credentialsProvider).build(); HttpComponentsClientHttpRequestFactory requestFactory = new HttpComponentsClientHttpRequestFactory(client); return requestFactory; } private SSLContext createContext() { TrustManager[] trustAllTrusts = new TrustManager[] { new X509TrustManager() { public java.security.cert.X509Certificate[] getAcceptedIssuers() { return null; } public void checkClientTrusted(java.security.cert.X509Certificate[] certs, String authType) { } } }; try { SSLContext sc = SSLContext.getInstance("SSL"); sc.init(null, trustAllTrusts, null); HttpsURLConnection.setDefaultSSLContext(sc.getSocketFactory()); HttpsURLConnection.setDefaultHostnameVerifier(new HostnameVerifier() { public boolean verify(String hostname, SSLSession session) { return true; } }); return sc; } catch (Exception e) { return null; } } answer4(可执行): For the sake of other developers who finds this question and need another solution that fits not only for unit-tests: I've found this on a blog (not my solution! Credit to the blog's owner). TrustStrategy acceptingTrustStrategy = (X509Certificate[] chain, String authType) -> true; SSLContext sslContext = org.apache.http.ssl.SSLContexts.custom().loadTrustMaterial(null, acceptingTrustStrategy).build(); SSLConnectionSocketFactory csf = new SSLConnectionSocketFactory(sslContext); CloseableHttpClient httpClient = HttpClients.custom().setSSLSocketFactory(csf).build(); HttpComponentsClientHttpRequestFactory requestFactory = new HttpComponentsClientHttpRequestFactory(); requestFactory.setHttpClient(httpClient); RestTemplate restTemplate = new RestTemplate(requestFactory); answer5: Disabling certificate checking is the wrong solution, and radically insecure. The correct solution is to import the self-signed certificate into your truststore. An even more correct solution is to get the certificate signed by a CA. If this is "only for testing" it is still necessary to test the production configuration. Testing something else isn't a test at all, it's just a waste of time.

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