

Threatgrid设备不接受CA证书

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简介

当从证书文件添加内容时，Threatgrid设备不接受证书并显示错误，即这是“Not a client/server CA cert”，错误如下所示：



解决方案

有可能相关证书没有必要的扩展，因此Threatgrid设备无法接受。要使CA证书被threatgrid接受，它必须具有正确的CA扩展。要检查此项：

步骤 1：为了验证证书，您可以执行此openssl命令。

```
openssl x509 -in poke.fireamp.pem -text
```

步骤 2：此处显示的内容如下：

```
Certificate: Data: Version: 1 (0x0) Serial Number: 0 (0x0) Signature Algorithm:
sha256WithRSAEncryption Issuer: C = IN, ST = KA, O = MYLAB, OU = MYLAB, CN = root.mylab.com
Validity Not Before: Jun 3 08:55:34 2020 GMT Not After : May 29 08:55:34 2040 GMT Subject: C =
IN, ST = KA, O = MYLAB, OU = MYLAB, CN = dispupd-master3.mylab.com Subject Public Key Info:
Public Key Algorithm: rsaEncryption RSA Public-Key: (2048 bit) Modulus:
00:9f:4c:cc:c1:0c:bb:88:b0:fb:c0:68:19:a2:36: e4:29:4d:ef:68:23:e2:69:0f:d6:b7:96:7e:f8:80:
7a:1f:76:97:42:a4:a0:a5:26:2f:b6:06:67:14:26: df:ab:50:c0:fc:ec:e4:02:7b:ca:86:cf:99:8e:43:
1d:d3:51:4b:0a:7e:ca:46:5a:9f:f2:68:ae:3d:c5: a1:ab:3b:bb:c3:83:c3:a1:61:83:1e:1e:d6:ab:13:
a3:b1:51:b0:15:f4:a1:11:89:e6:79:0f:ae:89:6b: 5b:ec:74:4d:75:00:60:59:06:49:f1:f5:7c:b8:70:
67:29:fc:fb:81:88:cd:cf:a9:6e:8f:b6:02:b1:58: 02:8c:41:73:9f:7c:fc:9b:37:b4:1f:bd:28:7b:ca:
90:5e:97:7f:4f:40:0e:be:e3:55:cc:dc:32:fb:5a: ef:c0:40:83:ab:20:c5:28:c1:ca:c5:54:b5:c3:87:
ec:79:be:6e:46:e5:44:56:fc:ab:9b:5f:f5:a3:8b: 06:e3:b3:29:09:bd:76:96:ba:22:09:85:c5:e2:50:
e2:d9:10:f2:58:42:be:99:be:5f:6c:eb:82:dc:3e: d0:d3:a5:b4:c6:d5:7a:e6:1a:e8:cc:dc:19:b9:c8:
0c:8c:8c:87:a5:d5:0d:d1:d4:1b:a6:14:4f:29:68: 82:cf Exponent: 65537 (0x10001) Signature
Algorithm: sha256WithRSAEncryption 4a:1f:00:60:fe:0b:0b:e0:02:f8:85:6e:ff:e6:73:92:7a:3f:
4c:46:89:36:84:51:f1:f8:73:9a:b6:6e:83:54:92:48:f4:df:
```

```
df:10:d8:c4:f2:36:38:fd:0e:1b:9c:ef:f7:91:c3:90:db:cc:
ec:84:a0:45:9b:35:85:d9:39:10:e6:01:e9:6c:ab:29:c7:0b:
57:12:b4:cb:bd:cf:ae:1c:3a:ff:a1:7d:b7:d4:b2:98:53:7b:
d9:25:11:40:72:1b:ce:90:dd:3e:c8:3c:9f:bf:5b:f5:78:d0:
be:66:b9:d2:ed:d3:c8:71:1d:75:b7:29:37:17:5f:e3:63:68:
51:1d:30:7b:1d:45:67:b2:71:61:59:39:26:19:aa:87:d7:f1:
07:b1:3b:68:b0:1a:5a:9f:61:e3:55:ae:31:80:dc:46:e5:4a:
46:f7:12:6b:1b:8f:b5:68:bf:00:56:66:6a:c6:b2:d9:7a:ea:
61:de:15:72:eb:3b:49:d1:55:bc:9d:6c:8b:05:36:82:f7:b8:
12:ac:c9:f0:e9:1c:8b:60:2d:cf:61:8b:4f:7c:3f:89:e0:05:
e4:58:a8:22:13:74:76:7a:86:20:b2:8c:ae:cc:68:28:56:63:
df:ac:85:29:5b:e4:2b:8e:98:36:75:71:6f:48:3a:af:4c:8f: 4e:57:c5:ce
```

第3步：这表示CA扩展不存在。这些是CA证书上预期的扩展。

```
X509v3 Basic Constraints: critical CA:TRUE
```

步骤 4：确保证书有这些扩展可用，如果不可用，则必须要求证书提供商与这些扩展共享CA证书。如果您已使用OpenSSL创建证书，这些命令将帮助您生成具有正确扩展名的CA证书。

```
openssl genrsa -out rootCA.key 2048
```

```
openssl req \ -addext basicConstraints=critical,CA:TRUE\ -outform pem -out rootCA.pem \ -key
rootCA.key -new -x509 \ -days "1000"
```

步骤 5：以下是可接受证书的示例：

```
Certificate: Data: Version: 3 (0x2) Serial Number:
56:e4:2f:5a:f3:21:e2:17:43:13:cb:21:b3:30:16:cb:37:12:54:c6 Signature Algorithm:
sha256WithRSAEncryption Issuer: C = AU, ST = Some-State, O = Internet Widgits Pty Ltd Validity
Not Before: Nov 17 08:50:01 2020 GMT Not After : Aug 14 08:50:01 2023 GMT Subject: C = AU, ST =
Some-State, O = Internet Widgits Pty Ltd Subject Public Key Info: Public Key Algorithm:
rsaEncryption RSA Public-Key: (2048 bit) Modulus: 00:cb:1a:3d:db:4f:5d:15:4f:e7:75:37:ae:ac:a4:
dc:de:9d:67:34:6d:ca:d4:9a:e4:26:73:d0:08:90: 0f:0d:bc:16:0f:9c:bb:7d:7e:e0:39:36:78:0f:19:
b0:c1:6a:20:33:96:f9:70:f0:7d:33:74:79:8a:a1: f8:aa:a4:81:50:dc:e7:5a:b7:4d:6a:4a:d6:aa:5a:
59:d7:58:05:1c:14:d3:03:01:c5:cd:ce:a5:bd:68: be:c2:31:e1:3a:75:58:f3:5f:fe:c2:38:4e:5f:df:
be:9b:ad:e5:a0:81:41:41:ff:45:90:3c:20:1c:5b: 35:0b:9e:8c:79:49:f6:da:c0:85:df:6f:b7:e3:2c:
e4:fc:2e:08:ff:97:f3:e0:10:ff:3f:79:92:c9:19: ee:96:46:2c:07:bc:b4:16:88:f3:0e:98:dd:4e:07:
e6:7c:34:9d:a9:71:5a:61:a3:ba:d5:d1:a1:0f:e9: e2:7d:45:71:36:6e:2d:57:ee:0b:1a:80:c3:e8:76:
29:ed:e2:25:94:0b:4f:9d:01:35:fa:b9:91:e4:1f: 00:17:54:46:d1:2d:62:a1:7c:a2:bd:e0:67:fc:43:
c0:55:e7:82:86:88:34:11:66:0b:85:1a:c5:c0:87: ce:eb:b8:47:6d:4b:24:cd:4a:ab:e1:90:5f:1f:89:
10:a1 Exponent: 65537 (0x10001) X509v3 extensions: X509v3 Subject Key Identifier:
5C:2D:62:32:41:0A:5C:EB:4C:CF:41:A9:FB:81:F9:C1:D9:05:03:3D X509v3 Authority Key Identifier:
keyid:5C:2D:62:32:41:0A:5C:EB:4C:CF:41:A9:FB:81:F9:C1:D9:05:03:3D X509v3 Basic Constraints:
critical CA:TRUE Signature Algorithm: sha256WithRSAEncryption
1c:a4:5d:2e:71:2d:3d:74:98:f4:0e:d1:39:7e:ae:bc:cf:fb:
6c:7a:19:e6:f5:1e:57:0a:93:91:03:4f:9d:02:fb:f9:b7:f4:
64:92:a2:aa:33:34:2d:5a:52:bc:7c:b6:b1:a0:59:d3:98:72:
dd:c6:d2:e5:8c:e0:8b:87:60:44:c8:2c:ad:20:3d:9f:83:b1:
53:e7:22:bc:85:64:fe:b3:11:90:fb:68:1f:ba:04:bd:1a:8f:
dd:02:5d:aa:42:9b:9c:7f:5e:95:63:5f:07:65:b9:0d:83:0c:
a4:f6:48:d4:74:fc:bc:93:9f:79:68:9b:30:d8:c0:e4:d2:d7:
42:aa:fb:43:ef:40:4a:17:9d:3a:6f:50:24:c1:52:74:15:07:
50:82:64:60:20:e1:ec:85:72:11:14:4e:bd:44:a2:74:92:db:
30:d2:32:98:a7:f3:c2:47:b4:f5:6c:60:6d:0e:50:87:75:c7:
a3:a4:5d:25:96:58:43:bb:2b:c4:6c:ea:f1:88:f4:b1:29:22:
0b:cd:03:64:b8:fb:65:cf:29:62:59:ec:b8:b8:33:09:58:cf:
f5:67:2e:f4:b4:7d:de:84:e3:05:84:b8:91:2c:a1:32:af:44:
fa:2d:3e:c3:01:72:c9:56:c9:f0:ce:5e:28:61:f1:79:56:68: 36:f3:bb:21
```