CSM Enable (event) SSL通信的强加密算法

目录

问题

默认情况下， Cisco Security Manager (CSM)提交HTTPS通信的以下密码器：

```
%ASA-7-725011: Cipher[1] : AES128-SHA
%ASA-7-725011: Cipher[2] : DHE-RSA-AES128-SHA
%ASA-7-725011: Cipher[3] : DHE-DSS-AES128-SHA
%ASA-7-725011: Cipher[4] : DES-CBC3-SHA
%ASA-7-725011: Cipher[5] : EDH-RSA-DES-CBC3-SHA
%ASA-7-725011: Cipher[6] : EDH-DSS-DES-CBC3-SHA
%ASA-7-725011: Cipher[7] : DES-CBC-SHA
%ASA-7-725011: Cipher[8] : EDH-RSA-DES-CBC-SHA
%ASA-7-725011: Cipher[9] : EDH-DSS-DES-CBC-SHA
%ASA-7-725011: Cipher[10] : EXP-DES-CBC-SHA
%ASA-7-725011: Cipher[11] : EXP-EDH-RSA-DES-CBC-SHA
%ASA-7-725011: Cipher[12] : EXP-EDH-DSS-DES-CBC-SHA
%ASA-7-725011: Cipher[13] : ECDHE-ECDSA-AES128-SHA256
%ASA-7-725011: Cipher[14] : ECDHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[15] : AES128-SHA256
%ASA-7-725011: Cipher[16] : DHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[17] : DHE-DSS-AES128-SHA256
%ASA-7-725011: Cipher[18] : ECDHE-ECDSA-AES128-SHA
%ASA-7-725011: Cipher[19] : ECDHE-RSA-AES128-SHA
%ASA-7-725011: Cipher[20] : AES128-SHA
%ASA-7-725011: Cipher[21] : DHE-RSA-AES128-SHA
%ASA-7-725011: Cipher[22] : DHE-DSS-AES128-SHA
%ASA-7-725011: Cipher[23] : ECDHE-ECDSA-DES-CBC3-SHA
%ASA-7-725011: Cipher[24] : ECDHE-RSA-DES-CBC3-SHA
%ASA-7-725011: Cipher[25] : DES-CBC3-SHA
%ASA-7-725011: Cipher[26] : EDH-RSA-DES-CBC3-SHA
%ASA-7-725011: Cipher[27] : EDH-DSS-DES-CBC3-SHA
%ASA-7-725011: Cipher[28] : ADH-AES128-SHA256
%ASA-7-725011: Cipher[29] : ADH-AES128-SHA
%ASA-7-725011: Cipher[30] : ADH-DES-CBC3-SHA
%ASA-7-725011: Cipher[31] : DES-CBC-SHA
%ASA-7-725011: Cipher[32] : EDH-RSA-DES-CBC-SHA
%ASA-7-725011: Cipher[33] : EDH-DSS-DES-CBC-SHA
%ASA-7-725011: Cipher[34] : ADH-DES-CBC-SHA
%ASA-7-725011: Cipher[35] : EXP-DES-CBC-SHA
%ASA-7-725011: Cipher[36] : EXP-EDH-RSA-DES-CBC-SHA
%ASA-7-725011: Cipher[37] : EXP-EDH-DSS-DES-CBC-SHA
%ASA-7-725011: Cipher[38] : EXP-ADH-DES-CBC-SHA
%ASA-7-725011: Cipher[39] : NULL-SHA256
%ASA-7-725011: Cipher[40] : ECDHE-ECDSA-NULL-SHA
%ASA-7-725011: Cipher[41] : ECDHE-RSA-NULL-SHA
%ASA-7-725011: Cipher[42] : NULL-SHA
%ASA-7-725011: Cipher[43] : NULL-MD5
```

然而，如果我们配置ASA支持仅一种强encryptuon算法(类似AES256-SHA) ：

通信将发生故障，并且我们将看到在ASA的以下SYSLOG ：

```
%ASA-7-725014: SSL lib error. Function: ssl3_get_client_hello Reason: no shared cipher
```

并且以下登录CSM ：

```
"Unable to communicate with the Device"
The Security Manager Server and the device could not negotiate the security level"
```

解决方案

由于导入法规在某些国家(地区) Oracle实施提供限制加密算法优点的默认密码权限策略文件。如果更加强的算法在设备需要配置或已经配置(例如，与256-bit密钥， DH组的AES有5,14,24的)，请遵从这些步骤：

1. 下载Java从http://www.oracle.com的7个无限个优点加密算法policy.jar文件。思科推荐搜索以下在Oracle网站：

Java加密算法分机(JCE)无限个优点权限策略文件Java 7

http://www.oracle.com/technetwork/java/javase/downloads/jce-7-download-432124.html

2. 替换local_policy.jar和US_export_policy.jar在您的安全经理服务器在文件夹CSCOpx \ MDC \ vms \ jre \解放\安全。
3. 重新启动您的安全经理服务器。

现在CSM将提交以下密码器：

```
%ASA-7-725011: Cipher[1] : AES128-SHA
%ASA-7-725011: Cipher[2] : DHE-RSA-AES128-SHA
%ASA-7-725011: Cipher[3] : DHE-DSS-AES128-SHA
%ASA-7-725011: Cipher[4] : DES-CBC3-SHA
%ASA-7-725011: Cipher[5] : EDH-RSA-DES-CBC3-SHA
%ASA-7-725011: Cipher[6] : EDH-DSS-DES-CBC3-SHA
%ASA-7-725011: Cipher[7] : DES-CBC-SHA
%ASA-7-725011: Cipher[8] : EDH-RSA-DES-CBC-SHA
%ASA-7-725011: Cipher[9] : EDH-DSS-DES-CBC-SHA
%ASA-7-725011: Cipher[10] : EXP-DES-CBC-SHA
%ASA-7-725011: Cipher[11] : EXP-EDH-RSA-DES-CBC-SHA
%ASA-7-725011: Cipher[12] : EXP-EDH-DSS-DES-CBC-SHA
%ASA-7-725011: Cipher[13] : ECDHE-ECDSA-AES256-SHA384
%ASA-7-725011: Cipher[14] : ECDHE-RSA-AES256-SHA384
%ASA-7-725011: Cipher[15] : AES256-SHA256
%ASA-7-725011: Cipher[16] : DHE-RSA-AES256-SHA256
%ASA-7-725011: Cipher[17] : DHE-DSS-AES256-SHA256
%ASA-7-725011: Cipher[18] : ECDHE-ECDSA-AES256-SHA
%ASA-7-725011: Cipher[19] : ECDHE-RSA-AES256-SHA
%ASA-7-725011: Cipher[20] : AES256-SHA
%ASA-7-725011: Cipher[21] : DHE-RSA-AES256-SHA
%ASA-7-725011: Cipher[22] : DHE-DSS-AES256-SHA
%ASA-7-725011: Cipher[23] : ECDHE-ECDSA-AES128-SHA256
%ASA-7-725011: Cipher[24] : ECDHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[25] : AES128-SHA256
%ASA-7-725011: Cipher[26] : DHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[27] : DHE-DSS-AES128-SHA256
%ASA-7-725011: Cipher[28] : ECDHE-ECDSA-AES128-SHA
```

```
%ASA-7-725011: Cipher[29] : ECDHE-RSA-AES128-SHA
%ASA-7-725011: Cipher[30] : AES128-SHA
%ASA-7-725011: Cipher[31] : DHE-RSA-AES128-SHA
%ASA-7-725011: Cipher[32] : DHE-DSS-AES128-SHA
%ASA-7-725011: Cipher[33] : ECDHE-ECDSA-DES-CBC3-SHA
%ASA-7-725011: Cipher[34] : ECDHE-RSA-DES-CBC3-SHA
%ASA-7-725011: Cipher[35] : DES-CBC3-SHA
%ASA-7-725011: Cipher[36] : EDH-RSA-DES-CBC3-SHA
%ASA-7-725011: Cipher[37] : EDH-DSS-DES-CBC3-SHA
%ASA-7-725011: Cipher[38] : ADH-AES256-SHA256
%ASA-7-725011: Cipher[39] : ADH-AES256-SHA
%ASA-7-725011: Cipher[40] : ADH-AES128-SHA256
%ASA-7-725011: Cipher[41] : ADH-AES128-SHA
%ASA-7-725011: Cipher[42] : ADH-DES-CBC3-SHA
%ASA-7-725011: Cipher[43] : DES-CBC-SHA
%ASA-7-725011: Cipher[44] : EDH-RSA-DES-CBC-SHA
%ASA-7-725011: Cipher[45] : EDH-DSS-DES-CBC-SHA
%ASA-7-725011: Cipher[46] : ADH-DES-CBC-SHA
%ASA-7-725011: Cipher[47] : EXP-DES-CBC-SHA
%ASA-7-725011: Cipher[48] : EXP-EDH-RSA-DES-CBC-SHA
%ASA-7-725011: Cipher[49] : EXP-EDH-DSS-DES-CBC-SHA
%ASA-7-725011: Cipher[50] : EXP-ADH-DES-CBC-SHA
%ASA-7-725011: Cipher[51] : NULL-SHA256
%ASA-7-725011: Cipher[52] : ECDHE-ECDSA-NULL-SHA
%ASA-7-725011: Cipher[53] : ECDHE-RSA-NULL-SHA
%ASA-7-725011: Cipher[54] : NULL-SHA
%ASA-7-725011: Cipher[55] : NULL-MD5
```

并且连接当前将是成功的：

```
%ASA-7-725012: Device chooses cipher AES256-SHA for the SSL session with client
asa:10.88.243.57/49949 to 10.122.160.233/443
```