

# 如何在Sx350和Sx550X系列交換器上匯入憑證

## 目標

本文的目的是提供使用圖形使用者介面(GUI)和命令列介面(CLI)在Sx350和Sx550X系列交換機上成功匯入證書的步驟。

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## 簡介

在Sx350和Sx550X交換機上匯入證書時遇到的一個問題是，使用者面臨金鑰標頭丟失和/或無法載入公鑰錯誤。本文說明如何克服這些錯誤以成功匯入證書。證書是一種電子文檔，用於標識個人、伺服器、公司或其他實體，並將該實體與公鑰相關聯。證書用於網路中，以提供安全訪問。證書可以由外部證書頒發機構(CA)自簽名或數位簽章。如名稱所示，自簽名證書由自己的建立者簽名。CA管理證書請求並向參與實體（如主機、網路裝置或使用者）頒發證書。CA簽名的數位證書被視為行業標準和更安全。

## 適用裝置和軟體版本

- SG350版本2.5.0.83
- SG350X版本2.5.0.83
- SG350XG版本2.5.0.83
- SF350版本2.5.0.83
- SG550X版本2.5.0.83
- SF550X版本2.5.0.83
- SG550XG版本2.5.0.83
- SX550X版本2.5.0.83

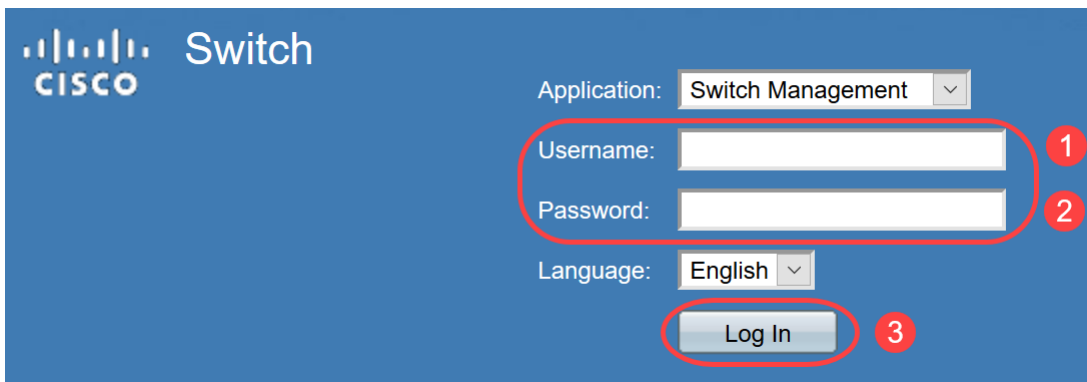
## 必要條件

您必須具有自簽名或證書頒發機構(CA)證書。本文包含獲取自簽名證書的步驟。要瞭解有關CA證書的詳細資訊，請按一下[此處](#)。

## 使用GUI匯入

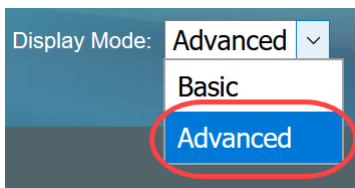
### 步驟1

輸入Username和Password以登入交換器的GUI。按一下「Log In」。



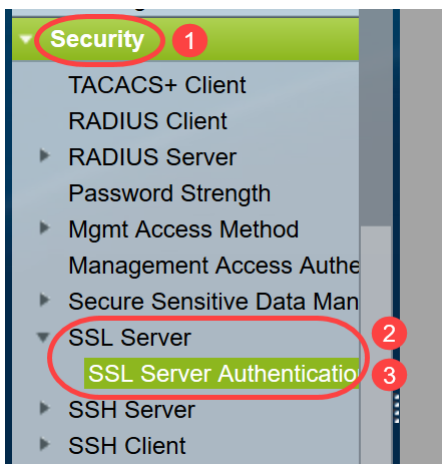
## 步驟2

在GUI右上角的 *Display Mode* 中，使用下拉選項選擇 **Advanced**。



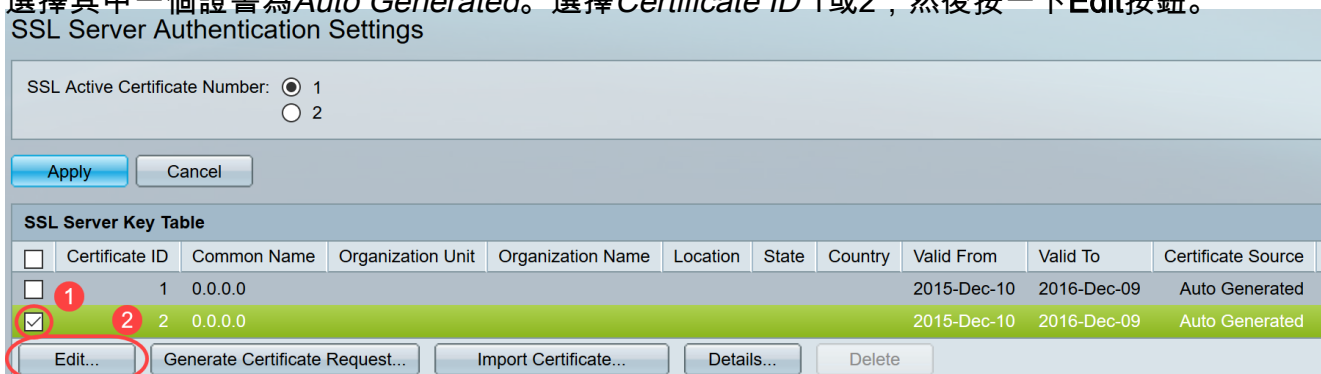
## 步驟3

導覽至 **Security > SSL Server > SSL Server Authentication**。



## 步驟4

選擇其中一個證書為 *Auto Generated*。選擇 *Certificate ID* 1或2，然後按一下 **Edit** 按鈕。



## 步驟5

要生成自簽名證書，請在新的彈出視窗中啟用 *Regenerate RSA Key* 並輸入以下引數：

金鑰長度

公用名

組織單位

組織名稱

位置

狀態

國家/地區

持續時間

按一下「**Generate**」。

▲ Not secure | 192.168.1.254/csf94298e9/mts/ssl/ssl\_serverauth\_e\_jq.htm

Certificate ID:  1  
 2

Regenerate RSA Key:  1

Key Length:  2048 bits  
 3072 bits 2

Common Name: Cisco (5/64 characters used; Default: 0.0.0.0)

Organization Unit: US (2/64 characters used)

Organization Name: Cisco (5/64 characters used)

Location: San Jose (8/64 characters used)

State: California (10/64 characters used)

Country: US 3072 bits

Duration: 365 Days (Range: 30 - 3650, Default: 365) 3

Generate Close

您也可以從第三方CA建立憑證。

## 步驟6

現在您可以在 *SSL Server Key Table* 下看到 *User Defined* 證書。選擇新建立的證書，然後按一下 **Details**。

SSL Server Authentication Settings

SSL Active Certificate Number:  1  2

Apply Cancel

SSL Server Key Table

<input type="checkbox"/>	Certificate ID	Common Name	Organization Unit	Organization Name	Location	State	Country	Valid From	Valid To	Certificate Source
<input type="checkbox"/>	1	0.0.0.0						2017-Nov-08	2018-Nov-08	Auto Generated
<input checked="" type="checkbox"/>	2	Cisco	US	Cisco	San Jose	California	US	2019-Mar-13	2020-Mar-12	User Defined

Edit... Generate Certificate Request... Import Certificate... Details... Delete

## 第7步

在彈出視窗中，您可以看到 *Certificate*、*Public Key* and *Private Key(Encrypted)* 詳細資訊。您可以在單獨的記事本檔案中複製它們。按一下 **Display Sensitive Data as Plaintext**。

SSL Details - Google Chrome

Not secure | 192.168.1.254/csf94298e9/mts/ssl/ssl\_serverauth\_d\_jq.htm

Certificate ID: 2

Certificate: -----BEGIN CERTIFICATE-----  
MIIDRzCCAi8CEE90bzMCJXp/nT+78tBROt8wDQYJKoZIhvcNAQELBQAwYjELMAKGA1UEBhMCVVMxZzARBgNVBAgMCkNBTEIGT1JOSUExETAPBgNVBAsMCFNhb3NIMQ4wDAYDQDQDAVD

Public Key: -----BEGIN RSA PUBLIC KEY-----  
MIIBCgKCAQEAuxUF71CPBJ6asoghDOEZbifnXhflPSFDlu0SGDtwQHJ7doPp6XVMh7ZZC1TuVWdV5jpe0Jp8CFuMH/Azj9JDR1fsVqBAFU2v0L+jhPS5VDN63iUHjeAhlCMmAx1pegbLvb/A+glnieTgB/Z2EL3eT2xjT0MyqFImBPNuL4awjvt9E7IEHhBt1HL0Nr/cuWTLmAOIDmlmKN2CRHuz2cxjp0+uA2bY85bNefQoJbE3G6wxACel2n4dmK4GFQvOxzS0A5PcsKUMefaeF/afcbvRcypy+y88P/DQ/Spq4xsBwjrzUDafqt2aSkIrl8LyHSSD1BWB09X5fjv10QNAMQ+QIDAQAB


Fingerprint(Hex): 4F:49:F5:A0:36:C5:AC:C8:F5:A1:E1:62:4F:AD:05:B8:E7:CC:5A:D6

Private Key (Encrypted): -----BEGIN RSA ENCRYPTED PRIVATE KEY-----  
oIAbmqdHV/WOCsWTno8EsO1FXk81mva9RGX2rBMhCDJjeZjmj6aa8y4rDJmcrF98ri5CBJ+WV5KbjvH3UsRkm1b7W0jcoh7CYBkGIAxe5p24pgXf5QWPH2830A0qY0dAiinwZkwPat9BUKVV913eY1tHzHFN/1kvOpvKggusO085U5FqFMFUpFD94YDqQ+Xpp+LDuiVPjgFh6DCXq2wBnFBzws7doSHMBU77LHOFnWybmzzmT63DNFNgoUlp0nwskdPoigihLjrtESSJ5x/tlzkfJx2rGreHz2AMwa1urtJv+ysGu+R4T0++1RkiUJISCYZW7kmtwFdlchMBv1YJWPQZ0I9znTXOXgZQbtR1MGI5NqrTb1V110sItb63dqRQKJ4XUdTldQpRPgrhTrXUwXHgegCpBtqLg1D6Hp

Close Display Sensitive Data as Plaintext

## 步驟8

將會開啟一個彈出視窗，確認私鑰顯示為明文，然後按一下 **OK**。

 Sensitive data for the current page will be displayed as plaintext. Your HTTP web session is insecure. Do you want to continue?

Don't show me this again

**OK** Cancel

## 步驟9

現在，您將能夠以明文形式檢視私鑰。將明文輸出複製到記事本檔案。按一下「Close」。

Not secure | 192.168.1.254/csf94298e9/mts/ssl/ssl\_serverauth\_d\_jq.htm

Certificate ID: 2

Certificate: -----BEGIN CERTIFICATE-----  
MIIDRzCCAI8CEE90bzMCJXp/nT+78tBROt8wDQYJKoZIhvcNAQELBQAwYjELMAkG  
A1UEBhMCVVMxExARBgNVBAGMCKNBTEIGT1JOSUEXETAPBgNVBACMFNhbIBKb3NI  
MQ4wDAYDVQQDDAVDaXNjbzEOMAwGA1UECgwFQ2lzY28xCzAJBgNVBAsMAiVTMB4X  
DTE5MDYxODA1NTc1Ni0XDTIwMDYxNzA1NTc1Ni0wYjELMAkGA1UEBhMCVVMxExAR  
BgNVBAGMCKNBTEIGT1JOSUEXETAPBgNVBACMFNhbIBKb3NIMQ4wDAYDVQQDDAVD

Public Key: -----BEGIN RSA PUBLIC KEY-----  
MIIBKgKCAQEAuxUF71CPBJ6asoghDOEZbiFnXhflPSFDlu0SGDtwQHJ7doPp6XVMh7ZCC1TuVWdV5jpe0Jp  
8CFuMH/Azj9JDR1fsVqBAFU2v0L+jhPS5VDN63iUHjeAhlCMmAx1pegbLvb/A+gInieTgB/Z2EL3eT2xjJT0MyqFl  
mBPNuL4awjvt9E7IEXhBt1HL0Nr/cuWTLmAOIDmlmKN2CRHuz2cxjp0+uA2bY85bNefQoJbE3G6wxACel2n4d  
mK4GFQvOxzS0A5PcsKUMefaeF/afcbvRcpyv+y88P/DQ/Spq4xsBwjzZUDafqt2aSkIrl8L8yHSSD1BWB09X5fjv1  
0QNAMQ+QIDAQAB

Fingerprint(Hex): 4F:49:F5:A0:36:C5:AC:C8:F5:A1:E1:62:4F:AD:05:B8:E7:CC:5A:D6

Private Key (Plaintext): -----BEGIN RSA PRIVATE KEY-----  
MIIEogIBAAKCAQEAuxUF71CPBJ6asoghDOEZbiFnXhflPSFDlu0SGDtwQHJ7doPp6XVMh7ZCC1TuVWdV5jpe  
e0Jp8CFuMH/Azj9JDR1fsVqBAFU2v0L+jhPS5VDN63iUHjeAhlCMmAx1pegbLvb/A+gInieTgB/Z2EL3eT2xjJT0  
MyqFlmBPNuL4awjvt9E7IEXhBt1HL0Nr/cuWTLmAOIDmlmKN2CRHuz2cxjp0+uA2bY85bNefQoJbE3G6wxAC  
el2n4dmK4GFQvOxzS0A5PcsKUMefaeF/afcbvRcpyv+y88P/DQ/Spq4xsBwjzZUDafqt2aSkIrl8L8yHSSD1BWB0  
9X5fjv10QNAMQ+QIDAQABAoIBAAIzH0Lq1V/I45VC/5PkZmOczkr426JO4DDhFcXdzMI8PzQ6EIKExUH0YpV

**Close** Display Sensitive Data as Encrypted

## 步驟10

選擇新建立的 *User Defined* 證書，然後按一下 **Import Certificate**。

SSL Server Authentication Settings

SSL Active Certificate Number:  1  
 2

**Apply** **Cancel**

	Certificate ID	Common Name	Organization Unit	Organization Name	Location	State	Country	Valid From	Valid To	Certificate Source
<input type="checkbox"/>	1	0.0.0.0						2017-Nov-08	2018-Nov-08	Auto Generated
<input checked="" type="checkbox"/>	2	Cisco	US	Cisco	San Jose	California	US	2019-Mar-13	2020-Mar-12	User Defined

**Edit...** **Generate Certificate Request...** **Import Certificate...** **Details...** **Delete**

2

## 步驟11

在新彈出視窗中，啟用 *Import RSA Key-Pair* 選項，然後以明文格式貼上私鑰（在步驟9中複製）。按一下「Apply」。

▲ Not secure | 192.168.1.254/csf94298e9/mts/ssl/ssl\_serverauth\_imp\_jq.htm

When a Certificate and/or a Key is entered, it should contain the "BEGIN" and "END" markers.

Certificate ID:  1  
 2

Certificate Source: User Defined

☛ Certificate:   
-----BEGIN CERTIFICATE-----  
MIIDRzCCAI8CEE90bzMCJXp/nT+78tBROT8wDQYJKoZIhvcNAQELBQAwYjELMAkG  
A1UEBhMCVVMxEzARBgNVBAGMCKNBTEIGT1JOSUExETAPBgNVBACMFNhbIBk3NI  
MQ4wDAYDVQQDDAVDaXNjbzEOMAwGA1UECgwFQ2IzY28xMzY2Z28xMzY2Z28x  
DTE5MDYxODA1NTc1NlOxDTIwMDYxNzA1NTc1NlOwYjELMAkGA1UEBhMCVVMxEzAR  
BgNVBAGMCKNBTEIGT1JOSUExETAPBgNVBACMFNhbIBk3NIMQ4wDAYDVQQDDAVD

**1**

Import RSA Key-Pair:  Enable

☛ Public Key:   
-----BEGIN RSA PUBLIC KEY-----  
MIIBCGKCAQEAuxUF71CPBJ6asoghDOEZbiFnXhfiPSFDIu0SGDtwQHJ7doPp6XVMh7ZZC1TuVWdV5jpe  
0Jp8CFuMH/Azj9JDR1fsVqBAFU2v0L+jhPS5VDN63iUHjeAhlCMmAx1pegbLvb/A+glnieTgB/Z2EL3eT2xJT  
0MyqFImBPNuL4awjvt9E7IEXhBt1HL0Nr/cuWTLmAOIDmlmKN2CRHuz2cxjp0+uA2bY85bNefQoJbE3G6w  
xAcEl2n4dmK4GFQvOxzS0A5PcsKUMefaeF/afcBvRcypyv+y88P/DQ/Spq4xsBwjRZUDafqt2aSkIr8L8yHSSD  
1BWB09X5fv10QNAMQ+QIDAQAB

☛ Private Key:  Encrypted  Plaintext

**2**

**3**

-----BEGIN RSA PRIVATE KEY-----  
MIIEogIBAAKCAQEAuxUF71CPBJ6asoghDOEZbiFnXhfiPSFDIu0SGDtwQHJ7doPp6XVMh7ZZC1TuVWdV  
5jpe0Jp8CFuMH/Azj9JDR1fsVqBAFU2v0L+jhPS5VDN63iUHjeAhlCMmAx1pegbLvb/A+glnieTgB/Z2EL3eT2  
xjJT0MyqFImBPNuL4awjvt9E7IEXhBt1HL0Nr/cuWTLmAOIDmlmKN2CRHuz2cxjp0+uA2bY85bNefQoJbE3  
G6wxAcEl2n4dmK4GFQvOxzS0A5PcsKUMefaeF/afcBvRcypyv+y88P/DQ/Spq4xsBwjRZUDafqt2aSkIr8L8yH  
SSD1BWB09X5fv10QNAMQ+QIDAQABAoIBAAIZH0Lq1V/I45VC/5PKZmOczkr426JO4DDhFcXdzMI8PzQ6

Apply Close Display Sensitive Data as Plaintext

在本示例中，公鑰的 *BEGIN* 和 *END* 處包含關鍵字 *RSA*。

## 步驟12

螢幕上將顯示成功通知。您可以關閉此視窗並將組態儲存到交換器上。

▲ Not secure | 192.168.1.254/csf94298e9/mts/ssl/ssl\_serverauth\_imp\_jq.htm

✓ Success. To permanently save the configuration, go to the [File Operations](#) page or click the Save icon.

When a Certificate and/or a Key is entered, it should contain the "BEGIN" and "END" markers.

Certificate ID:  1  2

Certificate Source: User Defined

✱ Certificate: 

```
-----BEGIN CERTIFICATE-----
MIIDRzCCAI8CEE90bzMCJXp/nT+78tBROt8wDQYJKoZIhvcNAQELBQAwYjELMAkG
A1UEBhMCVVMxEzARBgNVBAGMCKNBTEIGT1JOSUEXETAPBgNVBACMFNhbIBKb3NI
MQ4wDAYDVQQDDAVDaXNjbzEOMAwGA1UECgwFQ2lyY28xMjY28xMjY28xMjY28x
DTE5MDYxODAxNTc1Ni0xODAxNTc1Ni0xODAxNTc1Ni0xODAxNTc1Ni0xODAxNTc1
BgNVBAGMCKNBTEIGT1JOSUEXETAPBgNVBACMFNhbIBKb3NIMQ4wDAYDVQQDDAVD
```

Import RSA Key-Pair:  Enable

✱ Public Key: 

```
-----BEGIN RSA PUBLIC KEY-----
MIIBCgKCAQEAuxUF71CPBJ6asoghDOEZbifnXhflPSFDlu0SGDtwQHJ7doPp6XVMh7ZZC1TuVWdV5jpe
0Jp8CFuMH/Azj9JDR1fsVqBAFU2v0L+jhPS5VDN63iUHjeAhiCMmAx1pegbLvb/A+gInieTgB/Z2EL3eT2xjJT
0MyqFImBPNuL4awjvt9E7IEXBt1HL0Nr/cuWTLmAOIDmImKN2CRHuz2cxjp0+uA2bY85bNefQoJbE3G6w
xACel2n4dmK4GFQvOxzS0A5PcsKUMefaeF/afcbVrcpyv+y88P/DQ/Spg4xsBwjZUDafqt2aSkIr8L8yHSSD
1BWB09X5fjv10QNAMQ+QIDAQAB
```

✱ Private Key:  Encrypted  Plaintext

Apply Close Display Sensitive Data as Plaintext

## 可能的錯誤

所討論的錯誤與公鑰有關。通常使用兩種型別的公鑰格式：

1. RSA公鑰檔案(PKCS#1):這是針對RSA金鑰的。

它以標籤開始和結束：

-----開始RSA公鑰-----

BASE64編碼資料

-----結束RSA公鑰-----

2. 公鑰檔案(PKCS#8):這是一種更為通用的金鑰格式，用於標識公鑰的型別並包含相關資料。

它以標籤開始和結束：

-----BEGIN PUBLIC KEY-----

BASE64編碼資料

-----END PUBLIC KEY-----

## 缺少金鑰標頭錯誤

案例 1:您從第三方CA生成了證書。複製並貼上公鑰並按一下**Apply**。

When a Certificate and/or a Key is entered, it should contain the "BEGIN" and "END" markers.

Certificate ID:  1  
 2

Certificate Source: User Defined

Certificate: 

```
-----BEGIN CERTIFICATE-----  
MIIDRzCCAi8CEE90bzMCJXp/nT+78tBR0t8wDQYJKoZIhvcNAQELBQAwYjELMAkG  
A1UEBHMCVVMxEzARBgNVBAGMCKNBTEIGT1JOSUEXETAPBgNVBACMCFNhbIBKb3NI  
MQ4wDAYDVQQDDAVDaXNjbzEOMAwGA1UECgwFQ2lzY28xCzAJBgNVBAsMAIVTMB4X  
DTE5MDYxODA1NTc1NloXDTIwMDYxNzA1NTc1NlowYjELMAkGA1UEBHMCVVMxEzAR  
BgNVBAGMCKNBTEIGT1JOSUEXETAPBgNVBACMCFNhbIBKb3NIMQ4wDAYDVQQDDAVD
```

Import RSA Key-Pair:  Enable

Public Key: 

```
-----BEGIN PUBLIC KEY-----  
MIIBCAQEAuxUF71CPBJ6asoghDOEZbiFnXhflPSFDIu0SGDtwQHJ7doPp6XVMh7ZCC1TuVWdV5jpe0J  
p8CFuMH/Azj9JDR1fsVqBAFU2v0L+jhPS5VDN63iUHjeAhlCMmAx1peqLvb/A+glnieTaB/Z2EL3eT2xjJT0My  
qFlmBPNuL4awivtt9E7IEXhBt1HL0Nr/cuWTLmAOIDmImKN2CRHuz2cxjp0+uA2bY85bNefQoJbE3G6wxACel  
2n4dmK4GFQvOxzS0A5PcsKUMefaeF/afcBvRcpvy+v88P/DQ/Spq4xsBwirZUDafqt2aSkIrl8yHSSD1BWB0  
9X5fiv10QNAMQ+QIDAQAB
```

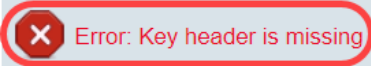
Private Key:  Encrypted

Plaintext 

```
-----BEGIN RSA PRIVATE KEY-----  
MIIEogIBAAKCAQEAuxUF71CPBJ6asoghDOEZbiFnXhflPSFDIu0SGDtwQHJ7doPp6XVMh7ZCC1TuVWdV5j  
pe0Jp8CFuMH/Azj9JDR1fsVqBAFU2v0L+jhPS5VDN63iUHjeAhlCMmAx1peqLvb/A+glnieTaB/Z2EL3eT2xjJT  
0MyqFlmBPNuL4awivtt9E7IEXhBt1HL0Nr/cuWTLmAOIDmImKN2CRHuz2cxjp0+uA2bY85bNefQoJbE3G6wx  
ACel2n4dmK4GFQvOxzS0A5PcsKUMefaeF/afcBvRcpvy+v88P/DQ/Spq4xsBwirZUDafqt2aSkIrl8yHSSD1B  
WB09X5fiv10QNAMQ+QIDAQABAOIBAAIzH0Lq1V/I45VC/5PkZmOczkr426JO4DdhFcXdzMI8PzQ6EIKExUH
```

您收到消息Error:缺少金鑰標頭。關閉視窗。可以做一些修改以使此問題消失。





When a Certificate and/or a Key is entered, it should contain the "BEGIN" and "END" markers.

Certificate ID:  1  2

Certificate Source: User Defined

Certificate: 

```
-----BEGIN CERTIFICATE-----
MIIDRzCCAi8CEE90bzMCJXp/nT+78tBROt8wDQYJKoZIhvcNAQELBQAwYjELMAKGA
A1UEBhMCVVMxEzARBgNVBAGMCKNBTEIGT1JOSUExETAPBgNVBACMFNhbIBKb3NI
MQ4wDAYDVQQDDAVDaXNjbzEOMAwGA1UECgwFQ2IzY28xCzAJBgNVBAsMAIVTMB4X
DTE5MDYxODA1NTc1NloXDTEwMDYxNzA1NTc1NlowYjELMAKGA1UEBhMCVVMxEzAR
BgNVBAGMCKNBTEIGT1JOSUExETAPBgNVBACMFNhbIBKb3NIMQ4wDAYDVQQDDAVD
```

Import RSA Key-Pair:  Enable

Public Key: 

```
-----BEGIN RSA PUBLIC KEY-----
MIIBCgKCAQEAuxUF71CPBJ6asoghDOEZbifnXhflPSFDIu0SGDtwQHJ7doPp6XVMh7ZZC1TuVWdV5jpe
0Jp8CFuMH/Azj9JDR1fsVqBAFU2v0L+jhPS5VDN63iUHjeAhICMmAx1pegbLvb/A+glnieTgB/Z2EL3eT2xJT
0MyqFImBPNuL4awjvt9E7IEhBt1HL0Nr/cuWTLmAOIDmImKN2CRHuz2cxjp0+uA2bY85bNefQoJbE3G6w
xAcel2n4dmK4GFQvOxS0A5PcsKUMefaeF/afcbvRcypyv+y88P/DQ/Spg4xsBwjrzUDafqt2aSkir8L8yHSSD
1BWB09X5fjv10QNAMQ+QIDAQAB
```

Private Key:  Encrypted  Plaintext

Apply Close Display Sensitive Data as Plaintext

修復此錯誤：

將關鍵字RSA新增到公鑰的開頭：開始RSA公鑰

將關鍵字RSA新增到公鑰的末尾：結束RSA公鑰

從金鑰代碼中刪除前32個字元。下面顯示的突出顯示部分是前32個字元的示例。

```
-----BEGIN RSA PUBLIC KEY-----
MIIBCgKCAQEAuxUF71CPBJ6asoghDOEZbifnXhflPSFDIu0SGDtwQHJ7doPp6XVMh7ZZC1TuVWdV5jpe
0Jp8CFuMH/Azj9JDR1fsVqBAFU2v0L+jhPS5VDN63iUHjeAhICMmAx1pegbLvb/A+glnieTgB/Z2EL3eT2xJT
0MyqFImBPNuL4awjvt9E7IEhBt1HL0Nr/cuWTLmAOIDmImKN2CRHuz2cxjp0+uA2bY85bNefQoJbE3G6w
xAcel2n4dmK4GFQvOxS0A5PcsKUMefaeF/afcbvRcypyv+y88P/DQ/Spg4xsBwjrzUDafqt2aSkir8L8yHSSD
1BWB09X5fjv10QNAMQ+QIDAQAB
```

在應用設定時，在大多數情況下不會獲取Key header is missing error。

### 無法載入公鑰錯誤

案例 2:您在一台交換機上生成了證書，並將其匯入到另一台交換機上。刪除前32個字元並按一下Apply後，複製並貼上了公鑰。

When a Certificate and/or a Key is entered, it should contain the "BEGIN" and "END" markers.

Certificate ID:  1  
 2

Certificate Source: User Defined

Certificate: -----BEGIN CERTIFICATE-----  
MIIDSTCCAjECEHV4jm/bIKGoJFHmCvnyTWUwDQYJKoZIhvcNAQELBQAwYzELMAKG  
A1UEBhMCSU4xEDA0BgNVBAGMB0hhcnlhbmExEDA0BgNVBAcMB0d1cmdhb24xEDAO  
BgNVBAMMBzAuMC4wLjAxDjAMBgNVBAoMBUNpc2NvMQ4wDAYDVQQLDAVDaXNjbzAe  
Fw0xOTA2MTkwMjQyMzRaFw0yMDA2MTgwMjQyMzRaMGMxCzAJBGNVBAYTAkiOMRAw  
DgYDVQQIDAdiYXJ5J5YW5hMRAwDgYDVQQHDAdHdXJnYW9uMRAwDgYDVQQDDAcwLjAu

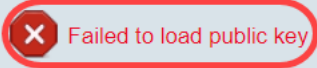
Import RSA Key-Pair:  Enable

Public Key: -----BEGIN RSA PUBLIC KEY-----  
/oy4ryP3fqiO8QHfzQsMSCCHrq5repNDfLFRV8LtBFIq3QilBHDtLJ07Pj29mgdVFHX/p3ArKS3QjuDST2/+A0CGVN  
J5ZPG8qKw58HWRIMcv0vblqDJI/ejOaYiGA10GX8eiT8lxfMblJomiiFd/MWOf8C2/3nmbhKk/LsKI+koTucCbquVf  
shpwP2WdWWReDU9qb8WLFrdnNQhGWR/N794HqAu0HyxpT7qDOVYy4FAGIR1pblDdAYHe8/sVXUCCuAFil  
92aDPeK1ZCMAcDJaMaQ4trqX/Km6vgBnvBePl1yaWiSOqaG0zgjir7YQIDAQAB  
-----END RSA PUBLIC KEY-----

Private Key:  Encrypted

Plaintext  
-----BEGIN RSA PRIVATE KEY-----  
MIIEpQIBAAKCAQEApAgqvAcD58ScvYwW5vzx/oy4ryP3fqiO8QHfzQsMSCCHrq5repNDfLFRV8LtBFIq3QilBH  
DtLJ07Pj29mgdVFHX/p3ArKS3QjuDST2/+A0CGVNJ5ZPG8qKw58HWRIMcv0vblqDJI/ejOaYiGA10GX8eiT8  
lxfMblJomiiFd/MWOf8C2/3nmbhKk/LsKI+koTucCbquVfshpwP2WdWWReDU9qb8WLFrdnNQhGWR/N794H  
qAu0HyxpT7qDOVYy4FAGIR1pblDdAYHe8/sVXUCCuAFil92aDPeK1ZCMAcDJaMaQ4trqX/Km6vgBnvBePl  
1yaWiSOqaG0zgjir7YQIDAQABAoIBAQCTUfJvpS1Qvzi21FbNZmhBYkmMoxTpYKHguvowxbZqIS07KdPF5v

螢幕上出現Failed to load public key錯誤。



When a Certificate and/or a Key is entered, it should contain the "BEGIN" and "END" markers.

Certificate ID:  1  
 2

Certificate Source: User Defined

✳ Certificate: -----BEGIN CERTIFICATE-----  
MIIDSTCCAjECEHV4jm/bIKGoJFHmCvnyTWUwDQYJKoZIhvcNAQELBQAwYzELMAkG  
A1UEBhMCSU4xEDAObgNVBAGMB0hhcnIhbmExEDAObgNVBACMB0d1cmdhb24xEDAO  
BgNVBAMMBzAuMC4wLjAxZDjAMBgNVBAoMBUNpc2NvMQ4wDAYDVQQLEDAVDAxNjBzAe  
Fw0xOTA2MTkwMjQyMzRaFw0yMDA2MTgwMjQyMzRaMGMrCzAJBgNVBAYTAkIOMRAw  
DgYDVQQIDAdiYXJ5J5YW5hMRAwDgYDVQQHDAdHdXJnYW9uMRAwDgYDVQQDDAcwLjAu

Import RSA Key-Pair:  Enable

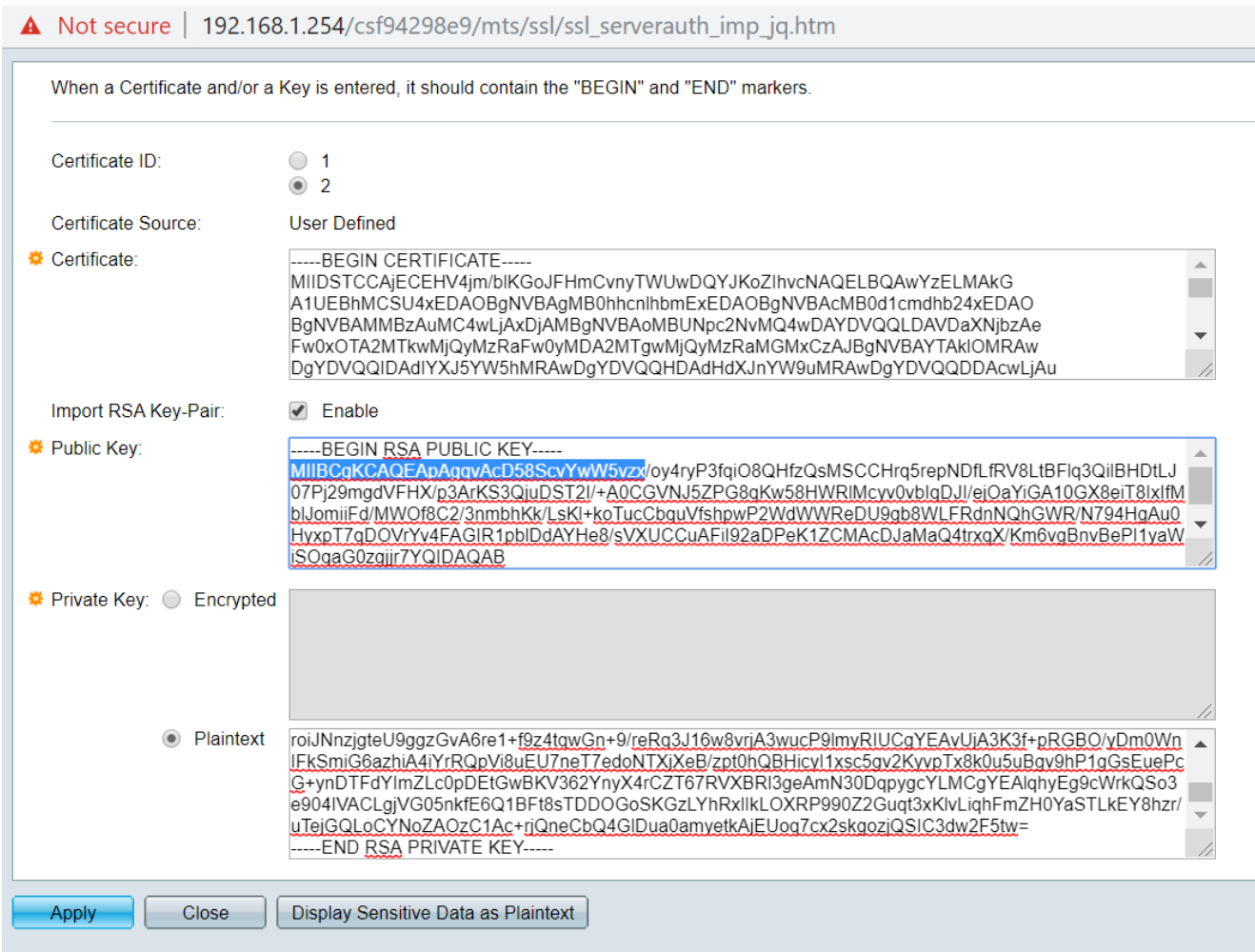
✳ Public Key: -----BEGIN RSA PUBLIC KEY-----  
MIIBCgKCAQEAqAgqvAcD58ScvYwW5vzx/oy4ryP3fqjO8QHfzQsMSCCHrq5repNDfLfrV8LtbFIq3QilBHDtL  
J07Pj29mgdVFHX/p3ArKS3QjuDST2I/+A0CGVNJ5ZPG8qKw58HWRIMcyv0vblqDJI/ejOaYIGA10GX8eIT8lx  
lfMblJomiiFd/MWOf8C2/3nmbhKk/LsKI+koTucCbquVfshpwP2WdWWReDU9gb8WLFrdnNQHGWWR/N794H  
gAu0HyxpT7qDOVrYv4FAGIR1pblDdAYHe8/sVXUCCuAFil92aDPeK1ZCMAcDJaMaQ4trqx/Km6vgBnvBe  
P11yaWiSOqaG0zgjir7YQIDAQAB

✳ Private Key:  Encrypted

Plaintext

Apply Close Display Sensitive Data as Plaintext

要解決此錯誤，請不要在此情況下刪除公鑰的前32個字元。



## 使用CLI匯入

### 步驟1

要使用CLI匯入證書，請輸入以下命令。

```
switch(config)#crypto certificate [certificate number] import
```

在此範例中匯入憑證2。

```
switch(config)#crypto certificate 2 import
```

### 步驟2

貼上輸入;在輸入後單獨的行上新增句點(.)。

```
-----RSA-----
MIIEvgIBADANBgkqhkiG9w0BAQEFAAASCgkAgEAAoIBAQC/rZQ6f0rj8neA
...24.....
h27Zh+aWX7dxakaoF5QokBTqWDHcMAvNluwGiZ/O3BQYgSiI+SYrZXAbUiSvfIR4
NC1WqkWzML6jW+521D/GokmU
-----END RSA PRIVATE KEY-----
-----RSA-----
MIIBCgKCAQEA62UOn9K4/J3gCAk7i9nYL5zYm4kQVQhCcAo7uGblEprxdWkft0l
...3.....
64jc5fzIfNnE2QpgBX/9M40E41BX5Z0B/QIDAQAB
```

```
-----RSA-----  
-----BEGIN CERTIFICATE-----  
MIIFvTCCBKWgAwIBAgIRA0OBWg4bkStdWPvCNYjHpbYwDQYJKoZIhvcNAQELBQAw  
- 28.....  
8S+39m9wPAOZipI0JA1/0IeG7ChLWOXKncMeZWVTIUZaEwVff0cUzqXwOJcsTrMV  
JDptnbKXG56w0Trecu6UQ9HsUBoDQnlsN5ZBht1VyjAP  
-----END CERTIFICATE-----
```

```
.  
  
C=xxST=GxxxxxL=xxO=xx CA LimitedCN=xx RSACA  
61400:00:00 2017 GMT  
91123:59:59 2020 GMT  
C=DE/postalCode=xxxST=xxL=xx/street=xxx 20=xxxOU=ITCN=*.kowi.eu  
SHAxxxxxxx
```

## 結論

現在，您已學習使用GUI和CLI在Sx350和Sx550X系列交換機上成功匯入證書的步驟。