

Installation convergée de certificat de contrôleurs LAN Sans fil d'Access tiers

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Introduction

Ce document décrit comment installer un certificat sur une gamme Cisco Catalyst 3850 commutent ou un contrôleur LAN Sans fil de Cisco 5760 (WLC), de sorte que le certificat puisse être utilisé plus tard pour l'authentification. C'est un document générique ce des foyers sur l'installation de certificat sur un commutateur du contrôleur sans-fil de nouvelle génération (NGWC).

Installation

Quand vous obtenez un certificat utilisateur d'un constructeur, vous recevez habituellement trois entités dans le format du Privacy Enhanced Mail (PEM) :

1. Certificat utilisateur
2. Clé de Rivest-Shamir-Adleman (RSA)
3. Certificat racine

Ce processus d'installation pour la gamme Cisco Catalyst 3850 commutent et Cisco 5760 WLC diffère de l'installation pour un Cisco 5508 WLC.

Remarques :

Utilisez l'[Outil de recherche de commande](#) (clients [enregistrés](#) seulement) pour obtenir plus d'informations sur les commandes utilisées dans cette section.

[L'Output Interpreter Tool](#) (clients [enregistrés](#) seulement) prend en charge certaines **commandes show**. Utilisez l'Output Interpreter Tool afin de visualiser une analyse de sortie de commande show.

Commandes

Ce sont les commandes utilisées dans l'exemple d'installation :

1. **configure terminal**
2. **nom de crypto pki trustpoint**
3. **PEM de terminal d'inscription**
4. **nom de crypto pki authenticate**
5. **show crypto pki certificates**

Procédure

Cette procédure décrit comment installer un tiers certificat.

1. Installez le point de confiance avec ces commandes :

```
configure terminal
crypto pki trustpoint trustp1 <--- trustp1 is a word string
any word can be used here.
(ca-trustpoint)#enrollment terminal pem
(ca-trustpoint)#exit
```

2. Authentifiez le point de confiance :

Sélectionnez la commande de **crypto pki authenticate** :

```
(config)#crypto pki authenticate trustp1
```

Enter the base 64 encoded CA certificate.
End with a blank line or the word "quit" on a line by itself
Copiez et collez le certificat utilisateur ; soyez sûr d'inclure -----COMMENCEZ LE
CERTIFICAT----- et -----CERTIFICAT D'EXTRÉMITÉ----- lignes.

La presse **entrent**, et tapent **quitté**.

```
(config)#crypto pki authenticate trustp1
```

Enter the base 64 encoded CA certificate.
End with a blank line or the word "quit" on a line by itself
Tapez **yes**.

Sélectionnez la commande **SH de crypto pki trustpoint** afin de voir le certificat.

3. Importez le certificat racine.

Sélectionnez la commande de **crypto pki import** :

```
(config)#crypto pki import trustroot pem terminal passphrase
% Enter PEM-formatted CA certificate.
% End with a blank line or "quit" on a line by itself
Copiez et collez le certificat racine.
```



```
XEln1eRiCbE1z1/wpRxlFH4XMpTL79F8FQTWZ0MvMzyLEriR+dHXxtbBUkCPvgFY
7Nruz4Rj5Uk4S33G1EVvExfMF/wa+rtFU4RwlV4DESbrhSFhLeEruFfpzOWhMj0C
AwEAAaOCAYswggGHMCYGA1UdEQQfMB2CG3dsZ3Vlc3RjaGVjay50cm93ZXByaWNl
LmNvbTAJBgNVHRMEAjAAMA4GA1UdDwEB/wQEAWIFoDBFBgNVHR8EPjA8MDqgOKA2
hjRodHRwOi8vU1ZSU2VjdXJlLWUzLWVhYzU2ZXJpc2lnbi5jb20vU1ZSU2VjdXJl
RzMuY3JSMEMGA1UdIAQ8MDowOAYKYIZIAYb4RQEHNjAqMCGCCsGAQUFBwIBFhxo
dHRwczovL3d3dy52ZXJpc2lnbi5jb20vY3BzMB0GA1UdJQQWMBQGCCsGAQUFBwMB
BggrBgEFBQcDAjAFBgNVHSMEGDAWgBQNRfWU0TBgn4dIKs19AFj2L55pTB2Bggr
BgEFBQcBAQRqMGgwJAYIKwYBBQUHMAggGh0dHA6Ly9vY3NwLnZlcmlzaWduLmNv
bTBABggrBgEFBQcwoAoY0aHR0cDovL1NWU1NlY3VyZS1HMy1haWEudmVyaXNpZ24u
Y29tL1NWU1NlY3VyZUczLmNlcjANBgkqhkiG9w0BAQUFAAOCAQEAReYq+92lCiDX
8hG4FyAeSvcl1DEhGUVy0URn8U7nYF7kN4NZdUKHFx86izPYJiC0yB6SsbMtz68t
r8OwPFUOzRvPfhzivtn/mL1TcEPjWiItOKmM6vpYayDMv8bbgIf+LL981qS2XV5L
Sk3eylzYVVVCqavw2BsvPAcklqvX7stSjQhtAoXeL9WBCfPlI5w/Fd6OP5J6XVBF
CHGaauqR5hONWge9M4xh6jDC0kLcrRcFXLbcdtS0DXHVBfBfDipoM2yRDdaVOwfZ
CrTL3cZA9HLzI3QtPkzLC7RrRP8r3bBkIYMNyGO465fe9IMV3MgTFey8G26mn+R5
iG3ddRLhha==
```

-----END CERTIFICATE-----

```
Trustpoint 'verisign.com' is a subordinate CA and holds a non self signed cert
Trustpoint 'verisign.com' is a subordinate CA.
but certificate is not a CA certificate.
Manual verification required
Certificate has the following attributes:
```

```
Fingerprint MD5: EF9EE16F 535D51D4 0E5E9809 F48CF6EE
Fingerprint SHA1: FB166D5D 5F301F93 3CA2015A F5745C52 46030D9E
```

```
% Do you accept this certificate? [yes/no]:
Trustpoint CA certificate accepted.
% Certificate successfully imported
```

```
(config)#s
% Incomplete command.
```

show crypto pki trustpoints

```
Trustpoint verisign.com:
  Subject Name:
  cn=ciscouser
  ou=ciscotech
  o=ciscoj
  l=Bangalore
  c=IN
  Serial Number (hex): 411B571C6F18E77E1D63A1244BA80788
Certificate configured.
```

```
(config)# crypto pki import VeriG3 pem terminal password
% Enter PEM-formatted CA certificate. <--- This is the ROOT CERTIFICATE
% End with a blank line or "quit" on a line by itself.
```

-----BEGIN CERTIFICATE-----

```
MIIF7DCBNSGawIBAgIQbsx6pacDIAM4zrz06VLUkTANBgkqhkiG9w0BAQUFADCB
yJELMAkGA1UEBhMCVVMxZmVzAVBgNVBAoTDlZlcmlTaWduLCBjb20wMR8wHQYDVQQL
ExZWZlZjU2lnbiBUcncvZ3d3ZXJpc2lnbi5jb20vU1ZSU2VjdXJlLWUzLWVhYzU2
ZXJpc2lnbi5jb20vY3BzMB0GA1UdJQQWMBQGCCsGAQUFBwMBBggrBgEFBQcDAjAF
BgNVHSMEGDAWgBQNRfWU0TBgn4dIKs19AFj2L55pTB2BggrBgEFBQcBAQRqMGgw
JAYIKwYBBQUHMAggGh0dHA6Ly9vY3NwLnZlcmlzaWduLmNvbTBABggrBgEFBQcwo
AoY0aHR0cDovL1NWU1NlY3VyZS1HMy1haWEudmVyaXNpZ24uY29tL1NWU1NlY3Vy
ZUczLmNlcjANBgkqhkiG9w0BAQUFAAOCAQEAReYq+92lCiDX8hG4FyAeSvcl1DEh
GUVy0URn8U7nYF7kN4NZdUKHFx86izPYJiC0yB6SsbMtz68tr8OwPFUOzRvPfh
zivtn/mL1TcEPjWiItOKmM6vpYayDMv8bbgIf+LL981qS2XV5LSk3eylzYVVVCqav
w2BsvPAcklqvX7stSjQhtAoXeL9WBCfPlI5w/Fd6OP5J6XVBFCHGaauqR5hONWge
9M4xh6jDC0kLcrRcFXLbcdtS0DXHVBfBfDipoM2yRDdaVOwfZCrTL3cZA9HLzI3
QtPkzLC7RrRP8r3bBkIYMNyGO465fe9IMV3MgTFey8G26mn+R5iG3ddRLhha==
```

```
f0MmV1gzgzsZChew0E6RJK2GfWQS3HRKNKEdCuqWHQsV/KNLO85jiND4LQyUhhDK
tpo9yus3nABINYYpUHjoRWPNGUF9ZXse5jUxHGzUL4os4+guVoc9cosI6n9FAbo
GLSa6Dxugf3kzTU2s1HTaewSulZub5tXxYsU5w7Hn01KVGrJTcW/EbGuHGeBy0RV
M5l/JJs/U0V/hhrzPPptf4HluErT9YU3HLWm0AnkGHs4TvoPAgMBAAGjggHfMIIB
2za0BggrBgEFBQcBAQoQCMCYwJAYIKwYBBQUHMAGGGGh0dHA6Ly9vY3NwLnZlcmlz
aWduLmNvbTASBGNVHRMBAf8ECDAGAQH/AgEAMHAGA1UdIARpMGcwZQYLYIZIAYb4
RQEHFwMwVjAoBggrBgEFBQcCARYcaHR0cHM6Ly93d3cudmVyaXNpZ24uY29tL2Nw
czAqBggrBgEFBQcCAjAeGhxodHRwczovL3d3dy52ZXJpc2lnbi5jb20vcnBhMDQG
A1UdHwQtMCswKAAncWGI2h0dHA6Ly9jcmwudmVyaXNpZ24uY29tL3BjYTMtZzUu
Y3JsMA4GA1UdDwEB/wQEAwIBBjBtBggrBgEFBQcBDARhMF+hXaBbMFkwVzBVVglp
bWFnZS9naWYwITAFMACGBSsOAwIaBBSP5dMahqyNjmvDz4Bq1EgYLHsZLjAlFiNo
dHRwOi8vbG9nby52ZXJpc2lnbi5jb20vbnNsb2dvLmdpZjAoBgNVHREITAFpB0w
GzEZMbcGALUEAxMQVmVyaVNPZ25NUUetJLTItNjAdBgNVHQ4EFgQUODURcFlNEwYJ+
HSCrJfQBY9i+eaUwHwYDVR0jBBgwFoAUF9Nlp8Ld7LvWManzQzn6Aq8zMTMwDQYJ
KoZIHvNAQEFBQADggEBAAYDJO/dwwzZWJz+NrbrioBL0aP3nfPMU++CnqOh5pfb
WJ1lboADG0z60cEtBcDqbrIicFXZIDNAMwfcZYP6j0M3m+oOmmxw7vacgDvZN/R6
bezQGH1JSsqZxxkoor7YdyT3hSaGbYcFQEFn0Sc67dxIHSLNCwuLvPSxe/20majp
dirhGi2HbnTTiNoEIsbfFrYrghQKlFzyUOyvzv9iNw2tZdMGQVPtAhTItVgooazg
W+yzf5VK+wPIrSbb5mZ4EkrZn0L74ZjmQoObj49nJOhhGbXdzbULJgWOW27EyHW4
Rs/iGAZeqa6ogZpHFt4MKGwlJ7net4RYxh84HqTEy2Y=
-----END CERTIFICATE-----
```

```
% Enter PEM-formatted encrypted private General Purpose key.
% End with "quit" on a line by itself.
```

```
-----BEGIN RSA PRIVATE KEY-----
```

```
Proc-Type: 4, ENCRYPTED
DEK-Info: DES-EDE3-CBC,1E71580604A10032
xz3n4/odG8PFwe/FL6lhNmKXUgg09A82kupYuAljWy4Pmz0gAk7fMTNBnrilk/Uq
c2WrM34tdURukNfYv3IbvKga6QsTQu5sYZ+83Igsdsh0xOw/xJNvs6aaOnF0frNN
wiRYOS5QGf9+A98kEw0g66ye04C9Xjr39+peSgmAchI4smAF486bK2xDRzlp2Ewi
bL+pgsY61/fYMDQwASRzJkkCi4sG4kQo5c5j3HpAwz3nVoQc j/R3AU7zcywMuVz0
qYiU4DcCq0Za6HXQS8vJ0yct10FjoXadZmgYtj7LbX1c+mJhTPDaPyKC56X3LOBg
KAQ0xwIC/ucyBoR02NhlSDoXGvX76W0J6J/jdaam/vcWdO212SEq68FkRNsJr8y/
DS7/aU4rhw3pI994essfAgke1oqSx200zRb4SXY5pFR/yVr1szwDmqOadFYogQxS
UR7KruVaXqZBFNhesUnxs5EmIMWsbTe+qbavSJVYUYQus0FTEzNWSaLkTTsQaCE2
AkhSajND2HwzBrGvMBWobIFgk0000wcras216uBp3mEGTjqdpmYhY7C5JXzkYUI
Ct8ZY+DJHMF0Uips/JvmglJ7Vr+ixCKa3ZmAf7J9sbJfChRKDAvKXVzVZXkf3W12
AAGVnlbTf8xHyFsRA/b/BXJjuJAKSgzbdDHU19GJNh/CjRIgppJyvcrfVK+dirC50
r1EsIBP+xuplfQphVTEwHo1+NYPg7sMLFV/vR8tHilzrJAxtde/LsXQDhd2XFwuo
VMExTY9t9EhtM4tHOoLLED0zv/niUocDqKorAd8/arJ4iSQKtTjnlIUCF1TS1Lqg
U2icCL4/9NL0Ulnuy2DxLl1j7u6gNixGLTuDWgaKR90UwEqLuw2he73pUS2eAIBw6
AP7YgKhOqMLa5MlJYHNz6uWDTqBLbNX1TopVcqKk4EWemTSZtRD94ucNsBmH7GBJ
juUYPh8mFrvBRDOBe70vche0vzN3ouw3CcVdT6VAuVzns3LFpGxeSbBUyoAV6SD7
7xHahcoCXAGcfff2eXmTWNWocm2sf19Hv4tPrWzftYkdlthcg+GxPqAOGp5NsGw4D
H/61+6t031Zt73/Nit2j0+sdgQs+MarqWpOJfwV1bW2/4c jn39qa4jb33QUebuJu
zXJdWwK9jfcMzJM71QVcngT8xqsC/+mcVY72ryf5QwQDagUcpOirHc+6/ULvYMy7
lWPjKlAoZDt1fqnI1kgY+cQkbPBrbBARZ1XhqjKBmUm2oaCU5Bh6ppRIBrBB/+I1
Dat43W3/MBOvu9LBC+oPB8MXVeuMYU96Uky1l3hh7YX0iP7Wn9uwur+jx/Ni1St0
dNST+pSRIPDgdph2ebRA7zNMruu9/U0+zQH+hJ8KdpGWVe3r4R6aR+FHRyT17rXZ
Jbnlgt/yfIU4QnMTFislbJNbnJNZgRWKC55A7kDPshUJ/gB50IYtB4covXftEel7g
odqkMLAc3Pgb6YQnVvHC4kCNTbGSvtPdidQRxMT2nVwFrpn7qI5x9pFp+IW015gk
-----END RSA PRIVATE KEY-----
```

quit

```
% Enter PEM-formatted General Purpose certificate.
% End with a blank line or "quit" on a line by itself.
```

```
-----BEGIN CERTIFICATE----- <--- This is the USER CERTIFICATE
MIIFCzCCBFugAwIBAgIQQRtXHG8Y534dY6EkS6gHiDANBkgqhkiG9w0BAQUFADCB
tTELMaKGA1UEBhMCVVMxZmVyaVNPZ25NUUetJLTItNjAdBgNVHQ4EFgQUODURcFlNEwYJ+
ExZWZXXJpU2lnbiBUcNvzdCBOZXR3b3JrMTswOQYDVOQLEzJUZXXJtcyBvZiBlc2Ug
YXQgaHR0cHM6Ly93d3cudmVyaXNpZ24uY29tL3BjYTMtZzUuY3JsMA4GA1UdDwEB/wQEAwMm
VmVyaVNPZ24gQ2xhc3MgMyBTZWN1cmUgU2VydMvYIENBIC0gRzRmWmHhcNMTIwNzIz
MDAwMDAwHhcNMTQwODE5MjM0OTU1UjBtTELMaKGA1UEBhMCVVMxZmVyaVNPZ25NUUetJLTItNjAdBgNVHQ4EFgT
```

```
CElhcnlSfYW5kMRIwEAYDVQqHFALCYWx0aWlvcMuxJzAlBgNVBAoUHLQuIFJvd2Ug
UHJpY2UgQXNzb2NpYXRlc3RjaGVjaW50cm93ZXByaWNlLmNvbTCC
bm9sb2dpZXMxJDAiBgNVBAMUG3dsZ3Vlc3RjaGVjaW50cm93ZXByaWNlLmNvbTCC
ASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBBAJvJpXRzliY8d11vCZcChi2c
5uIn0TnUhr8QQrW0kstROJTTmSjpaOVTwOb0HoLgC8lH2VRAIvxXdi49AqPYoY5
z8UxeH29XqKIkYR399K7/L9W9caYwWSjn4eLq1lk0GLmGMtE7T4I2bhssAgfV2+k
kpS4RymNUdSgCWzDrm575xyzVCciOGUPjTxB5U7sWPASqPvgoX88fPPpTtzTJl
XEln1eRIcbE1z1/wpRxlFH4XMpTL79F8FQTWZ0MvMzyLEriR+dHXxtbBUkCPvgFY
7Nruz4Rj5Uk4S33G1EVvExfMF/wa+rtFU4RwLV4DESbrhSFhLeEruFfpzOWhmj0C
AwEAAaOCAYswggGHMICYGA1UdEQQfMB2CG3dsZ3Vlc3RjaGVjaW50cm93ZXByaWNl
LmNvbTBJBgNVHRMEAjAAMA4GA1UdDwEB/wQEAwIFoDBFBGNVHR8EPjA8MDggOKA2
hjRodHRwOi8vU1ZSU2VjdXJlLWUyZjZlbnBi5jb20vU1ZSU2VjdXJl
RzMuY3JSMEMGA1UdIAQ8MDowOAYKYIZIAYb4RQEHNjAqMCGCCsGAQUFBwIBFhxo
dHRwcovL3d3dy52ZXJpc2lnbi5jb20vY3BzMB0GA1UdJQQWMBQGCCsGAQUFBwMB
BggrBgEFBQcDAjAFBgNVHSMGDAWgBQNRfWU0TBgn4dIKs19AFj2L55pTB2Bggr
BgEFBQcBAQRqMGGwJAYIKwYBBQUHMAggGh0dHA6Ly9vY3NwLnZlcmlzaWduLmNv
bTBABGgrBgEFBQcAwY0aHR0cDovL1NWU1NlY3VyZS1HMy1haWEudmVyaXNpZ24u
Y29tL1NWU1NlY3VyZUczLmNlcjANBgkqhkiG9w0BAQUFAAOCAQEAREYq+92lCiDX
8hG4FyAEsvcl1DEHGUvY0URn8U7nYF7kN4NZdUKHFx86izPYJiC0yB6SsbMtZ68t
r8OwPFUOzRvPfhzivtn/mL1TcEPjWiItOKmM6vpYayDMv8bbgIf+LL981qS2XV5L
Sk3eylZyVVVcQavw2BsvPAcklqvX7stSjQHTAoXeL9WBCfPLI5w/Fd6OP5J6XVBF
CHGaauqR5hONWge9M4xh6jDC0kLcrRcFXLbcdtS0DXHVBfBfDipom2yRDdaVOWfZ
CrTL3cZA9HLzI3QtPkzLC7RrRP8r3bBkiYMNyGO465fe9IMV3MgTFey8G26mn+R5
iG3ddRLhha==
```

-----END CERTIFICATE-----

% PEM files import succeeded.

(config)#

#sh crypto pki trustpoints

Trustpoint TP-self-signed-0:

Trustpoint CISCO_IDEVID_SUDI:

Subject Name:

cn=Cisco Manufacturing CA

o=Cisco Systems

Serial Number (hex): 6A6967B3000000000003

Certificate configured.

Trustpoint CISCO_IDEVID_SUDI0:

Subject Name:

cn=Cisco Root CA 2048

o=Cisco Systems

Serial Number (hex): 5FF87B282B54DC8D42A315B568C9ADFF

Certificate configured.

Trustpoint HTTPS_SS_CERT_KEYPAIR:

Subject Name:

serialNumber=FOC1618V3T0+hostname=

cn=

Serial Number (hex): 01

Trustpoint verisign.com:

Subject Name:

cn=ciscouser

ou=ciscotech

o=ciscoj

l=Bangalore

c=IN

Serial Number (hex): 411B571C6F18E77E1D63A1244BA80788

Certificate configured.

Trustpoint VeriG3: Subject Name: cn=VeriSign Class 3 Secure Server CA - G3

ou=Terms of use at <https://www.verisign.com/rpa> (c)10

ou=VeriSign Trust Network

o=VeriSign\
Inc.

c=US

Serial Number (hex): 6ECC7AA5A7032009B8CEBCF4E952D491

Certificate configured.