Configurez le client sécurisé de mobilité d'AnyConnect pour le Linux utilisant l'authentification de certificat client sur une ASA

Contenu

Introduction

Ce document décrit un exemple de configuration pour l'accès de Client à mobilité sécurisé Cisco AnyConnect de l'appliance de sécurité adaptable (ASA) qui emploie le certificat client pour l'authentification pour un système effectif de Linux (SYSTÈME D'EXPLOITATION) pour qu'un utilisateur d'AnyConnect se connecte avec succès à un Headend ASA.

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Conditions préalables

Exigences

Ce document suppose que l'ASA est complètement opérationnelle et configurée pour permettre au Cisco Adaptive Security Device Manager (ASDM) ou à l'interface de ligne de commande (CLI) pour apporter des modifications de configuration.

Cisco vous recommande de prendre connaissance des rubriques suivantes :

Connaissance de base du CLI et de l'ASDM de l'ASA
Configuration SSLVPN sur la tête de réseau de Cisco ASA
La connaissance fondamentale du PKI
Connaissance du système d'exploitation Linux

Composants utilisés

Les informations contenues dans ce document sont basées sur les versions de matériel et de logiciel suivantes :

Appliance de sécurité adaptable Cisco ASA5585-SSP-20
Version de logiciel 9.9(2)36 d'appliance de sécurité adaptable Cisco
Version 7.9(1) d'Adaptive Security Device Manager
Version 4.6.03049 d'AnyConnect
SYSTÈME D'EXPLOITATION d'Ubuntu 16.04.1 LTS

> Remarque: Téléchargez le module d'AnyConnect VPN Client (anyconnect-linux*.package) du site de téléchargement logiciel de Cisco (clients enregistrés seulement). Copiez le client vpn d'AnyConnect sur la mémoire flash de l'ASA, qui est alors téléchargée aux ordinateurs d'utilisateur distant afin d'établir la connexion de VPN SSL avec l'ASA.

Les informations contenues dans ce document ont été créées à partir des périphériques d'un environnement de laboratoire spécifique. Tous les périphériques utilisés dans ce document ont démarré avec une configuration effacée (par défaut). Si votre réseau est opérationnel, assurez-vous que vous comprenez l'effet potentiel de toute commande.

Les informations de Backgound

Pour une authentification réussie de certificat client sur des périphériques de Linux, le client sécurisé de mobilité d'AnyConnect prend en charge les mémoires suivantes de certificat :

1. Mémoire de certificat du système d'exploitation Linux (PEM)
2. Mémoire de certificat de Firefox (NSS)

Ce document est basé sur l'authentification de certificat client utilisant une mémoire de certificat du système d'exploitation Linux (PEM).

1. Pour utiliser la mémoire de certificat de système d'exploitation Linux, des Certificats basés sur FILE PEM sont placés dans ces répertoires.

Entité	Chemin	Exemple
Certificat d'Autorité de certification (CA)	/opt/.cisco/certificates/ca	tactest : ~$ LS /opt/.cisco/certificates/ca CACERT.pem VeriSignClass3PublicPrimaryCertificationAu y-G5.pem
Certificat utilisateur	/home/tactest/.cisco/certificates/client	tactest : ~$ LS /home/tactest/.cisco/certificates/client myclient.pem

Clé privée d'utilisateur [au commencement utilisée pour créer le CSR] :	/home/tactest/.cisco/certificates/client/private	tactest : ~$ LS /home/tactest/.cisco/certificates/client/privat myclient.key

Remarque: Par défaut, le chemin pour installer le certificat client et la clé privée n'est pas présent ainsi il doit être manuellement créé utilisant cette commande.

mkdir - p .cisco/Certificats/client/privé

Si vous utilisez une autorité de certification de Windows,

1. Téléchargez le certificat de CA (Base64 encodé) avec l'extension .cer
2. Téléchargez le certificat d'identité de l'utilisateur (Base64 encodé) avec l'extension .cer
3. Changez l'extension des Certificats de .cer à l'extension .pem

2. Pour utiliser la mémoire de certificat de Firefox (NSS), l'utilisateur peut importer leur certificat par l'intermédiaire de Firefox.
Le certificat de CA pour l'ASA peut être importé dans la mémoire de certificat NSS par le client d'AnyConnect automatiquement si l'utilisateur clique sur « connectent toujours » le bouton sur le dialogue d'alerte de sécurité de certificat en parcourant à l'ASA par l'intermédiaire de HTTPS.

La mémoire de certificat de Firefox d'utilisations de Linux d'AnyConnect (NSS) comme par défaut, s'il échoue alors il tournerait pour utiliser la mémoire de certificat de système d'exploitation Linux.

Remarque: Actuellement, AnyConnect sur un système d'exploitation Linux ne prend en charge pas le keyring de GNOME ainsi AnyConnect pas capable utiliser le certificat importé au keyring de GNOME.
Assurez-vous s'il vous plaît qu'il n'y a aucun Certificats relatif dans la mémoire de mémoire de certificat de système d'exploitation Linux et de certificat de Firefox (NSS) avant d'importer un nouveau certificat utilisateur.

Assurez-vous que vos fichiers répondent aux exigences suivantes :

- Tous les fichiers du certificat doivent finir avec l'extension .pem.
- Tous les fichiers principaux privés doivent finir avec l'extension .key.
- Un certificat client et sa clé privée correspondante doivent avoir le même nom du fichier. Exemple : client.pem et client.key.

Pour un début propre, considérez s'il vous plaît l'approche suivante :

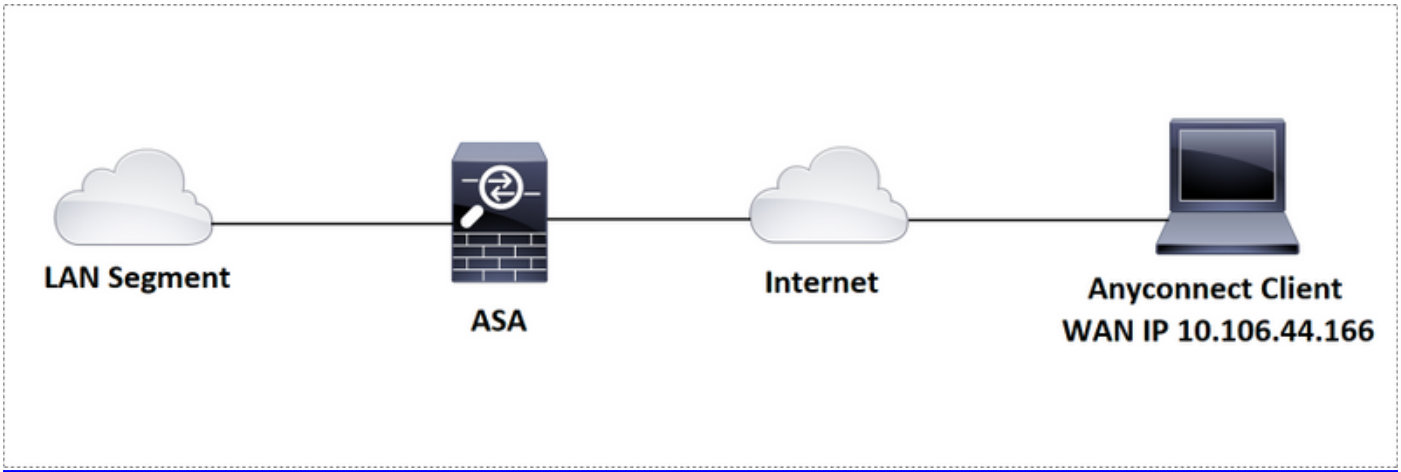
- Mémoire de certificat du système d'exploitation Linux (PEM) :
  A. Retirez les fichiers inutiles PEM sous « /opt/.cisco/certificates », mais maintenez le

certificat « /opt/.cisco/certificates/ca/VeriSignClass3PublicPrimaryCertificationAuthority-G5.pem » intact. C'est le certificat de CA AnyConnect compte en fonction pour exécuter la vérification de signature de code.
B. Retirez les certificats utilisateurs qui ne sont pas exigés du chemin ~/.cisco/certificates

- Mémoire de certificat de Firefox (NSS) :
  Employez les configurations de firefox pour examiner et supprimer les Certificats relatifs importés par l'utilisateur ou l'AnyConnect lui-même.

Configurer

Diagramme du réseau



Configurations

Installation de client Linux

Étape 1. Téléchargez le module d'Anyconnect, extrayez le contenu et installez l'application d'Anyconnect sur le client Linux.

```
tactest:Documents$ pwd
/home/tactest/Documents
tactest:Documents$ ls
anyconnect-linux64-4.6.03049-predeploy-k9.tar.gz
tactest:Documents$ tar -xvf anyconnect-linux64-4.6.03049-predeploy-k9.tar.gz
tactest:Documents$ ls
anyconnect-linux64-4.6.03049  anyconnect-linux64-4.6.03049-predeploy-k9.tar.gz
tactest:Documents$ cd anyconnect-linux64-4.6.03049/vpn/
tactest:vpn$ sudo su
[sudo] password for tactest:
root:vpn# pwd
/home/tactest/Documents/anyconnect-linux64-4.6.03049/vpn
root:vpn# ./vpn_install.sh
Installing Cisco AnyConnect Secure Mobility Client...
```

Étape 2. Créez une demande de signature de certificat du certificat d'identité sur le client Linux

utilisant OpenSSL.

```
[dime@localhost ~]$ openssl genrsa -des3 -out server.key 2048
Generating RSA private key, 2048 bit long modulus
.................................+++
.........................................+++
e is 65537 (0x10001)
Enter pass phrase for server.key:
Verifying - Enter pass phrase for server.key:
[dime@localhost ~]$
[dime@localhost ~]$ openssl rsa -in server.key -out server.key.insecure
Enter pass phrase for server.key:
writing RSA key
[dime@localhost ~]$ mv server.key server.key.secure
[dime@localhost ~]$
[dime@localhost ~]$ mv server.key.insecure server.key
[dime@localhost ~]$
[dime@localhost ~]$ !  The insecure key is now named server.key, and you can use this file to
generate the CSR without passphrase.
[dime@localhost ~]$
[dime@localhost ~]$ openssl req -new -key server.key -out server.csr
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [XX]:US
State or Province Name (full name) []:CA
Locality Name (eg, city) [Default City]:SJ
Organization Name (eg, company) [Default Company Ltd]:Cisco
Organizational Unit Name (eg, section) []:HTTS
Common Name (eg, your name or your server's hostname) []:dimenet
Email Address []:
Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
[dime@localhost ~]$
[dime@localhost ~]$ ls | grep -i server
server.csr  server.key  server.key.secure
[dime@localhost ~]$
[dime@localhost ~]$ cat server.csr
-----BEGIN CERTIFICATE REQUEST-----
MIICvTCCAaUCAQAwYTELMAkGA1UEBhMCVVMxCzAJBgNVBAgMAkNBMQswCQYDVQQH
DAJTSjEOMAwGA1UECgwFQ2lzY28xDTALBgNVBAsMBEhUVFMxGTAXBgNVBAMMEGRp
bWViCG5lCAgICAgICAgwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQC/
0e5PF09y45/+vlfZbuWRaw1vUiJPxy8OdXZhKT7VmDSitdTnPs2Q7cfzVaM1GdIw
c/HoHTL+rmmCn2Ccc9NGoWok3damhhu19xAt2VXz8jS6mV5bqTeBLYEWJ2Tgh7wA
4/0aPGILZCkQNNn3PruTLe8dqfEhFU6nGp7iJKNjlvyd34Di5YL1NhEQGdZ9q7aK
5VE3nBhgELmPOle53Pt/ZYWwji138QN8Qo9bXOZmQmRXgRucFaeN0VJVF+0EnnAJ
Y58+yiImEvqKe8h1OCxT2H/TH+5+XRHmggee/zZvis7JMWWcKACOUjQ9scTrjp+z
TW4CM2Cmox3AEcOJ9yg/AgMBAAGgFzAVBgkqhkiG9w0BCQcxCAwGY2lzY28IMA0G
CSqGSIb3DQEBCwUAA4IBAQC7uRbj+0JxUw7REXc41Ma30WIxhhzvn6QGax8+EPlL
c7wpsMtCSwV7BOgFLKqI7h+dcME+CfBYlcPre2/5LMYo336i9i0tsodV/+EU3NBg
L/RSoH099wBIEo7Xxx30xi38PvnCPnbZZEL2IWrgTyO4ohEOUjEOYnD16kUJvISy
Ky8z/3gGDRuhks2Yv4CTTRcvQAvljsLCOZiyaVVrp2xmsPtHxrd6vLrupoxdNpJy
xG1P/67JMLS3qqpTuvAqXT5uT2OBAC2hBgMGuKZCOC3mR4WlmoED9woFPESUUMQf
mKOksgQfrrxOZKPyhV8J4jByAjLSw6vh41dJHY9qKaGo
-----END CERTIFICATE REQUEST-----
```

```
[dime@localhost ~]$
```

Étape 3. Le CSR généré ci-dessus peut être utilisé pour inviter le CA pour délivrer un certificat d'identité de l'utilisateur.

Étape 4. Une fois le certificat est délivré par CA, copient le certificat sur le client Linux.

a. Créez un fichier .pem à « /home/tactest/.cisco/certificates/client » utilisant la commande **toucher myclient.pem**

b. Copiez le contenu de certificat encodé par Base64 du certificat d'identité de client délivré par CA

c. Éditez le fichier utilisant

vi **myclientcert.pem ou** nanomyclientcert.pem

d. Appuyez sur-« moi » pour insérer le texte dans le fichier.

e. Collez le certificat encodé par Base64

f. L'évasion de presse et tapent alors « : wq ! » pour sauvegarder et quitter la retouche de fichier.

Étape 5. De même, placez le certificat de CA dans le chemin « /opt/.cisco/certificates/ca »

Configuration de l'interface de ligne de commande ASA

Cette section fournit la configuration CLI pour le Client à mobilité sécurisé Cisco AnyConnect pour la référence.

```
interface GigabitEthernet0/1
 nameif outside
 security-level 0
 ip address 10.106.63.179 255.255.255.0
!
interface GigabitEthernet0/2
 nameif inside
 security-level 100
 ip address 30.30.30.1 255.255.255.0

asdm image disk0:/asdm-791.bin
route outside 0.0.0.0 0.0.0.0 10.106.63.1 1

!--------------------Client pool configuration-----------------

ip local pool ANYCONNECT-POOL 192.168.100.1-192.168.100.254 mask 255.255.255.0


!--------------------Split ACL configuration--------------------

access-list SPLIT-TUNNEL standard permit 10.0.0.0 255.255.255.0


!------Configure Trustpoint containing ASA Identity Certificate ------

crypto ca trustpoint IDENTITY
 enrollment terminal
 subject-name CN=bglanyconnect.cisco.com
 keypair ID_CERT
 crl configure
```

```
!-------Apply trustpoint on outside interface------

ssl trust-point IDENTITY outside

!-------Enable AnyConnect and setup AnyConnect Image------

webvpn
 enable outside
 anyconnect image disk0:/anyconnect-linux64-4.6.03049-webdeploy-k9.pkg 1
 anyconnect enable
 tunnel-group-list enable


!--------------------Group Policy configuration--------------------


group-policy GroupPolicy_ANYCONNECT-PROFILE internal
group-policy GroupPolicy_ANYCONNECT-PROFILE attributes
 dns-server value 10.10.10.99
 vpn-tunnel-protocol ssl-client ssl-clientless
 split-tunnel-policy tunnelspecified
 split-tunnel-network-list value SPLIT-TUNNEL
 default-domain value cisco.com

!----------Tunnel-Group (Connection Profile) Configuraiton----------

tunnel-group ANYCONNECT_PROFILE type remote-access
tunnel-group ANYCONNECT_PROFILE general-attributes
 address-pool ANYCONNECT-POOL
 default-group-policy GroupPolicy_ANYCONNECT-PROFILE
tunnel-group ANYCONNECT_PROFILE webvpn-attributes
 authentication certificate
 group-alias ANYCONNECT-PROFILE enable

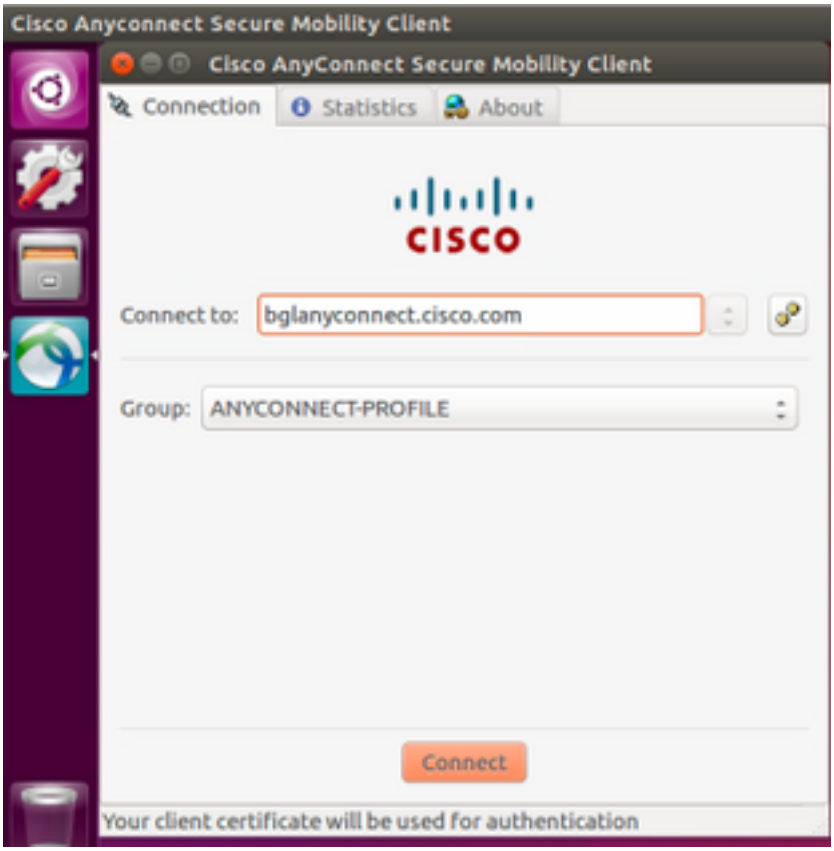
: end
```

Vérifiez

Utilisez cette section pour confirmer que votre configuration fonctionne correctement.

> Remarque: L'Outil d'interprétation de sortie (clients enregistrés seulement) prend en charge certaines **commandes d'affichage**. Utilisez l'Outil d'interprétation de sortie afin de visualiser une analyse de commande d'affichage de sortie .

1. Sur un SYSTÈME D'EXPLOITATION d'Ubuntu 16.04.1 LTS, connectent Anyconnect par l'intermédiaire du GUI



2. Si vous souhaitez connecter Anyconnect par l'intermédiaire de la ligne de commande sur un client Linux, naviguez vers le chemin suivant :

```
tactest:vpn$ cd /opt/cisco/anyconnect/bin
tactest:vpn$
tactest:bin$ ./vpn
Cisco AnyConnect Secure Mobility Client (version 4.6.03049) .

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  >> state: Disconnected
  >> state: Disconnected
  >> notice: Ready to connect.
  >> registered with local VPN subsystem.
VPN>
```

3. Vérifiez le client d'Anyconnect peut établir la connexion :

```
VPN>  connect bglanyconnect.cisco.com
 connect bglanyconnect.cisco.com
  >> contacting host (bglanyconnect.cisco.com) for login information...
  >> notice: Contacting bglanyconnect.cisco.com.

  >> Your client certificate will be used for authentication
Group: ANYCONNECT-PROFILE
  >> state: Connecting
  >> notice: Establishing VPN session...
The AnyConnect Downloader is analyzing this computer. Please wait...
The AnyConnect Downloader is performing update checks...
  >> notice: The AnyConnect Downloader is performing update checks...
  >> notice: Checking for profile updates...
The AnyConnect Downloader updates have been completed.
Please wait while the VPN connection is established...
```

```
  >> state: Connecting
  >> notice: Checking for product updates...
  >> notice: Checking for customization updates...
  >> notice: Performing any required updates...
  >> notice: The AnyConnect Downloader updates have been completed.
  >> notice: Establishing VPN session...
  >> notice: Establishing VPN - Initiating connection...
  >> notice: Establishing VPN - Examining system...
  >> notice: Establishing VPN - Activating VPN adapter...
  >> notice: Establishing VPN - Configuring system...
  >> notice: Establishing VPN...
  >> state: Connected
  >> notice: Connected to bglanyconnect.cisco.com.
  >> state: Connected
  >> notice: Connected to bglanyconnect.cisco.com.

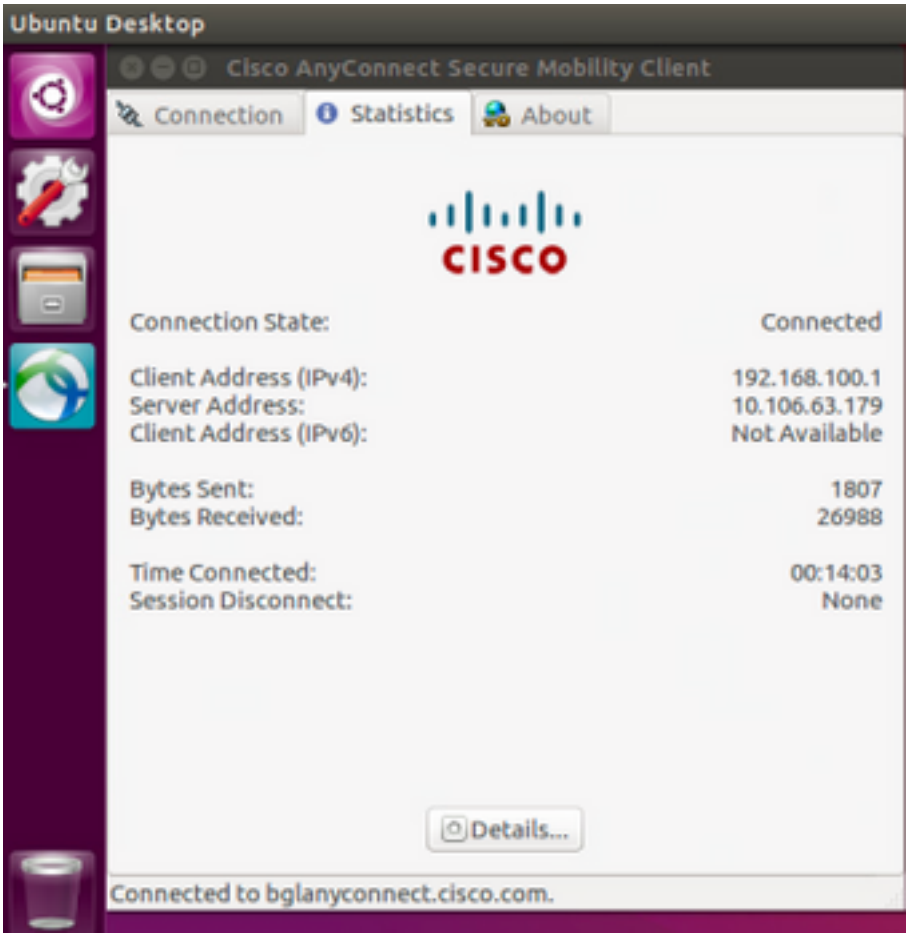
VPN> disconnect
disconnect
  >> state: Disconnecting
  >> notice: Disconnect in progress, please wait...
  >> state: Disconnecting
  >> notice: Disconnect in progress, please wait...
  >> state: Disconnecting
  >> state: Disconnected
  >> notice: Ready to connect.
  >> state: Disconnected
  >> notice: Ready to connect.
VPN>
```

Remarque: Si le client GUI d'Anyconnect est déjà ouvert et vous essai pour connecter Anyconnect par l'intermédiaire du CLI, vous obtenez cette erreur.

```
VPN> connect bglanyconnect.cisco.com
connect bglanyconnect.cisco.com
>> contacting host (bglanyconnect.cisco.com) for login information...
>> state: Disconnected
>> error: Connect not available. Another AnyConnect application is running
or this functionality was not requested by this application.
VPN>
```

Dans ce cas, fermez le client GUI d'Anyconnect et puis connectez par l'intermédiaire d'Anyconnect CLI.

4. Une fois qu'avec succès connectés, des petits groupes de client d'Anyconnect peuvent être vérifiés en naviguant vers l'onglet de **statistiques** dans le client GUI d'Anyconnect



5. Cette commande est utilisée de confirmer le CA et les certificats d'identité actuels sur l'appliance de sécurité adaptable (ASA).

```
bglanyconnect# show crypto ca certificate
Certificate
  Status: Available
  Certificate Serial Number: 640000004944fa39c42d24c199000000000049
  Certificate Usage: General Purpose
  Public Key Type: RSA (1024 bits)
  Signature Algorithm: SHA256 with RSA Encryption
  Issuer Name:
    cn=SHERLOCK-CA
    dc=calo
    dc=lab
  Subject Name:
    cn=bglanyconnect.cisco.com
  CRL Distribution Points:
    [1]  ldap:///CN=SHERLOCK-
CA,CN=sherlock,CN=CDP,CN=Public%20Key%20Services,CN=Services,CN=Configuration,DC=calo,DC=la
b?certificateRevocationList?base?objectClass=cRLDistributionPoint
  Validity Date:
    start date: 03:00:53 UTC Jun 28 2019
    end   date: 03:00:53 UTC Jun 27 2021
  Storage: config
  Associated Trustpoints: IDENTITY

CA Certificate
  Status: Available
  Certificate Serial Number: 4a39345869f0e2aa4e8d60143b6d90f7
  Certificate Usage: Signature
  Public Key Type: RSA (2048 bits)
  Signature Algorithm: SHA256 with RSA Encryption
```

```
  Issuer Name:
    cn=SHERLOCK-CA
    dc=calo
    dc=lab
  Subject Name:
    cn=SHERLOCK-CA
    dc=calo
    dc=lab
  Validity Date:
    start date: 10:23:28 UTC Sep 22 2017
    end   date: 10:33:28 UTC Sep 22 2037
  Storage: config
  Associated Trustpoints: IDENTITY
```

6. Ces *commandes show* peuvent être exécutées pour confirmer le statut de client d'AnyConnect et de ses statistiques.

7. Afin de confirmer si le client Linux a le certificat dans le format correct (**codage Base64 avec l'extension .pem**), parcourez au chemin donné et utilisez la commande suivante :

```
tactest:client$ cd  /home/tactest/.cisco/certificates/client
tactest-client$
tactest:client$ ls
myclient.pem
tactest-client$
tactest:client$ openssl x509 -in myclient.pem -text -noout
Certificate:
    Data:
        Version: 3 (0x2)
        Serial Number:
            64:00:00:00:47:14:e8:bc:85:e5:1d:bf:c4:00:00:00:00:00:47
    Signature Algorithm: sha256WithRSAEncryption
        Issuer: DC=lab, DC=calo, CN=SHERLOCK-CA
        Validity
            Not Before: Jun 27 15:02:04 2019 GMT
            Not After : Jun 26 15:02:04 2021 GMT
        Subject: C=US, ST=CA, L=SJ, O=Cisco, OU=HTTS, CN=dimenet
        Subject Public Key Info:
            Public Key Algorithm: rsaEncryption
                Public-Key: (2048 bit)
                Modulus:
                    00:c3:42:18:d8:fc:09:72:92:81:2f:5d:aa:d4:c6:
                    bf:4c:10:b0:f6:ad:21:ae:f9:9c:50:0b:f0:aa:b7:
                    02:a0:11:52:e0:23:68:e0:71:f7:67:b9:9f:bd:0b:
                    9d:88:70:66:d2:26:3d:ac:a9:1a:ad:1f:47:0c:9f:
                    5e:51:09:68:4a:31:f1:ed:86:48:bb:82:24:06:ad:
                    d4:e4:0a:9e:56:f2:7d:f9:bc:11:97:d1:b6:52:3e:
                    4b:a6:fe:99:ff:6b:c3:ab:32:d9:24:ae:15:70:82:
                    d5:1e:62:ef:68:f0:e3:b7:84:29:58:b0:d2:8f:40:
                    60:96:cf:ca:fd:04:72:a4:0a:37:ab:88:2e:59:3b:
                    eb:86:41:6f:da:be:a6:64:b1:6c:be:e5:00:42:af:
                    a8:82:1f:2c:14:78:26:4f:c4:61:19:94:96:df:cc:
                    05:21:e5:12:36:ff:4d:f5:ac:f5:f6:45:1f:4c:16:
                    47:73:9b:84:ad:48:66:04:a9:15:49:ba:cc:d6:58:
                    f9:30:71:c5:46:f9:05:e1:b5:09:3b:ee:3c:ce:f5:
                    fa:89:54:d3:7f:14:8a:b3:32:1c:3f:19:07:6c:1a:
                    cb:95:23:16:8b:ca:44:c7:d6:0a:3c:35:a3:ec:5d:
                    f9:2b:58:41:11:32:00:53:43:31:70:36:cc:86:04:
                    6d:4b
                Exponent: 65537 (0x10001)
        X509v3 extensions:
```

```
            X509v3 Subject Key Identifier:
                45:64:99:B1:5F:A1:7C:5F:4F:77:0D:12:CE:B8:F8:CA:40:4D:FA:A8
            X509v3 Authority Key Identifier:
                keyid:1B:51:FF:8A:71:E7:9C:2B:66:29:28:FD:44:16:BF:44:A4:A1:7D:E1

            X509v3 CRL Distribution Points:

                Full Name:
                  URI:ldap:///CN=SHERLOCK-
CA,CN=sherlock,CN=CDP,CN=Public%20Key%20Services,CN=Services,CN=Configuration,DC=calo,DC=la
b?certificateRevocationList?base?objectClass=cRLDistributionPoint

            Authority Information Access:
                CA Issuers - URI:ldap:///CN=SHERLOCK-
CA,CN=AIA,CN=Public%20Key%20Services,CN=Services,CN=Configuration,DC=calo,DC=lab?cACertific
ate?base?objectClass=certificationAuthority

            X509v3 Key Usage: critical
                Digital Signature, Key Encipherment
            1.3.6.1.4.1.311.21.7:
                0..&+.....7.....E..........U..r.T...V......d...
            X509v3 Extended Key Usage:
                TLS Web Client Authentication
            1.3.6.1.4.1.311.21.10:
                0.0
..+.......
    Signature Algorithm: sha256WithRSAEncryption
         0b:4d:46:fe:dd:0b:78:1a:35:ea:2b:d6:d6:33:ef:5a:86:5a:
         07:63:db:ef:ae:b3:87:e3:4d:c7:e8:d2:39:fe:5a:f2:8b:40:
         1e:f0:92:3f:48:ed:4d:67:e3:a6:44:05:6f:db:d8:96:bb:a6:
         a4:c7:98:fa:40:a5:aa:2d:1f:4b:49:32:1a:86:71:3d:72:69:
         f3:3f:e6:9f:f7:94:56:2e:10:0c:4c:c1:74:f1:ee:0e:28:00:
         bb:84:84:99:4d:07:ba:1b:68:1d:b5:98:f6:b7:96:55:c1:b8:
         5e:14:53:88:82:07:4e:3c:d8:7e:b0:f4:8d:1c:05:fd:8b:20:
         12:a4:94:05:7c:ad:81:63:50:05:8d:44:40:31:7c:e0:a8:33:
         1e:a3:19:c2:cb:bf:c8:03:b3:05:08:52:23:7e:11:ad:45:04:
         bd:0e:5a:8b:26:60:8f:3e:1c:98:41:f9:4d:3e:1a:1f:c8:d5:
         97:e3:0a:40:cb:0b:23:ba:9a:f7:27:d6:a1:c5:fd:91:dc:6d:
         04:ab:b7:d5:1d:54:d7:b3:ab:99:45:df:c1:01:b8:16:6e:40:
         c9:76:9e:36:36:b8:fc:e3:a1:03:86:61:2b:ac:ec:6d:c9:f4:
         91:ff:81:58:30:24:d3:81:8b:f0:20:23:49:7a:84:0f:91:80:
         2b:54:96:4d
```

Si vous obtenez l'erreur suivante il signifie que vous essayez de visualiser un certificat DER-encodé et ce n'est pas un certificat encodé par PEM

```
unable to load certificate
12626:error:0906D06C:PEM routines:PEM_read_bio:no start line:pem_lib.c:647:Expecting:
TRUSTED CERTIFICATE
```

Dépanner

Cette section fournit les informations que vous pouvez employer afin de dépanner votre configuration.

Remarque: Référez-vous aux informations importantes sur les commandes de débogage avant d'utiliser les commandes de **débogage**.

Attention : Sur l'ASA, vous pouvez placer de divers niveaux de débogage ; par défaut, le niveau 1 est utilisé. Si vous changez le niveau de débogage, la verbosité des débogages pourrait augmenter. Faites ceci avec prudence, particulièrement dans les environnements de production.

Pour dépanner une connexion client entrante d'AnyConnect de client de système d'exploitation Linux, vous pouvez utiliser ce qui suit :

- **Pour le processus d'AnyConnect sur une ASA**

anyconnect 255 de debug webvpn

Voici un débogage d'échantillon pris sur une ASA d'un scénario fonctionnant :

```
%ASA-7-609001: Built local-host outside:10.106.44.166
%ASA-6-302013: Built inbound TCP connection 13540 for outside:10.106.44.166/58944
(10.106.44.166/58944) to identity:10.106.63.179/443 (10.106.63.179/443)
%ASA-6-725001: Starting SSL handshake with client outside:10.106.44.166/58944 to
10.106.63.179/443 for TLS session
%ASA-7-725010: Device supports the following 20 cipher(s)
%ASA-7-725011: Cipher[1] : ECDHE-ECDSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[2] : ECDHE-RSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[3] : DHE-RSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[4] : AES256-GCM-SHA384
%ASA-7-725011: Cipher[5] : ECDHE-ECDSA-AES256-SHA384
%ASA-7-725011: Cipher[6] : ECDHE-RSA-AES256-SHA384
%ASA-7-725011: Cipher[7] : DHE-RSA-AES256-SHA256
%ASA-7-725011: Cipher[8] : AES256-SHA256
%ASA-7-725011: Cipher[9] : ECDHE-ECDSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[10] : ECDHE-RSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[11] : DHE-RSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[12] : AES128-GCM-SHA256
%ASA-7-725011: Cipher[13] : ECDHE-ECDSA-AES128-SHA256
%ASA-7-725011: Cipher[14] : ECDHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[15] : DHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[16] : AES128-SHA256
%ASA-7-725011: Cipher[17] : DHE-RSA-AES256-SHA
%ASA-7-725011: Cipher[18] : AES256-SHA
%ASA-7-725011: Cipher[19] : DHE-RSA-AES128-SHA
%ASA-7-725011: Cipher[20] : AES128-SHA
%ASA-7-725008: SSL client outside:10.106.44.166/58944 to 10.106.63.179/443 proposes the
following 21 cipher(s)
%ASA-7-725011: Cipher[1] : ECDHE-ECDSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[2] : ECDHE-RSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[3] : DHE-RSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[4] : AES256-GCM-SHA384
%ASA-7-725011: Cipher[5] : ECDHE-ECDSA-AES256-SHA384
%ASA-7-725011: Cipher[6] : ECDHE-RSA-AES256-SHA384
%ASA-7-725011: Cipher[7] : DHE-RSA-AES256-SHA256
%ASA-7-725011: Cipher[8] : AES256-SHA256
%ASA-7-725011: Cipher[9] : ECDHE-ECDSA-AES128-GCM-SHA256
```

%ASA-7-725011: Cipher[10] : ECDHE-RSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[11] : DHE-RSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[12] : AES128-GCM-SHA256
%ASA-7-725011: Cipher[13] : ECDHE-ECDSA-AES128-SHA256
%ASA-7-725011: Cipher[14] : ECDHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[15] : DHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[16] : AES128-SHA256
%ASA-7-725011: Cipher[17] : DHE-RSA-AES256-SHA
%ASA-7-725011: Cipher[18] : AES256-SHA
%ASA-7-725011: Cipher[19] : DHE-RSA-AES128-SHA
%ASA-7-725011: Cipher[20] : AES128-SHA
%ASA-7-725011: Cipher[21] : DES-CBC3-SHA
%ASA-7-725012: Device chooses cipher ECDHE-RSA-AES256-GCM-SHA384 for the SSL session with client outside:10.106.44.166/58944 to 10.106.63.179/443
%ASA-6-725016: Device selects trust-point IDENTITY for client outside:10.106.44.166/58944 to 10.106.63.179/443
%ASA-6-725002: Device completed SSL handshake with client outside:10.106.44.166/58944 to 10.106.63.179/443 for TLSv1.2 session
%ASA-6-725007: SSL session with client outside:10.106.44.166/58944 to 10.106.63.179/443 terminated
%ASA-6-302014: Teardown TCP connection 13540 for outside:10.106.44.166/58944 to identity:10.106.63.179/443 duration 0:00:00 bytes 2948 TCP Reset-I from identity
%ASA-7-609002: Teardown local-host outside:10.106.44.166 duration 0:00:00
%ASA-7-609001: Built local-host outside:10.106.44.166
%ASA-6-302013: Built inbound TCP connection 13541 for outside:10.106.44.166/58946 (10.106.44.166/58946) to identity:10.106.63.179/443 (10.106.63.179/443)
%ASA-6-725001: Starting SSL handshake with client outside:10.106.44.166/58946 to 10.106.63.179/443 for TLS session %ASA-7-725010: Device supports the following 20 cipher(s) %ASA-7-725011: Cipher[1] : ECDHE-ECDSA-AES256-GCM-SHA384 %ASA-7-725011: Cipher[2] : ECDHE-RSA-AES256-GCM-SHA384 %ASA-7-725011: Cipher[3] : DHE-RSA-AES256-GCM-SHA384 %ASA-7-725011: Cipher[4] : AES256-GCM-SHA384 %ASA-7-725011: Cipher[5] : ECDHE-ECDSA-AES256-SHA384 %ASA-7-725011: Cipher[6] : ECDHE-RSA-AES256-SHA384 %ASA-7-725011: Cipher[7] : DHE-RSA-AES256-SHA256 %ASA-7-725011: Cipher[8] : AES256-SHA256 http_parse_cstp_method() ...input: 'CONNECT /CSCOSSLC/tunnel HTTP/1.1' webvpn_cstp_parse_request_field() ...input: 'Host: bglanyconnect.cisco.com' Processing CSTP header line: 'Host: bglanyconnect.cisco.com' webvpn_cstp_parse_request_field() ...input: 'User-Agent: Cisco AnyConnect VPN Agent for Linux 4.6.03049' Processing CSTP header line: 'User-Agent: Cisco AnyConnect VPN Agent for Linux 4.6.03049' Setting user-agent to: 'Cisco AnyConnect VPN Agent for Linux 4.6.03049' webvpn_cstp_parse_request_field() ...input: 'Cookie: webvpn=05B9EB@192512@A755@0A99DF461C27977CA12A0EAB41F5D7CD46AD8162' Processing CSTP header line: 'Cookie: webvpn=05B9EB@192512@A755@0A99DF461C27977CA12A0EAB41F5D7CD46AD8162' Found WebVPN cookie: 'webvpn=05B9EB@192512@A755@0A99DF461C27977CA12A0EAB41F5D7CD46AD8162' WebVPN Cookie: 'webvpn=05B9EB@192512@A755@0A99DF461C27977CA12A0EAB41F5D7CD46AD8162' webvpn_cstp_parse_request_field() ...input: 'X-CSTP-Version: 1' Processing CSTP header line: 'X-CSTP-Version: 1' webvpn_cstp_parse_request_field() ...input: 'X-CSTP-Hostname: tactest-virtual-machine' Processing CSTP header line: 'X-CSTP-Hostname: tactest-virtual-machine' Setting hostname to: 'tactest-virtual-machine' webvpn_cstp_parse_request_field() ...input: 'X-CSTP-MTU: 1399' Processing CSTP header line: 'X-CSTP-MTU: 1399' webvpn_cstp_parse_request_field() ...input: 'X-CSTP-Address-Type: IPv6,IPv4' Processing CSTP header line: 'X-CSTP-Address-Type: IPv6,IPv4' webvpn_cstp_parse_request_field() ...input: 'X-CSTP-Local-Address-IP4: 10.106.44.166' Processing CSTP header line: 'X-CSTP-Local-Address-IP4: 10.106.44.166' webvpn_cstp_parse_request_field() ...input: 'X-CSTP-Base-MTU: 1500' Processing CSTP header line: 'X-CSTP-Base-MTU: 1500' webvpn_cstp_parse_request_field() ...input: 'X-CSTP-Remote-Address-IP4: 10.106.63.179' Processing CSTP header line: 'X-CSTP-Remote-Address-IP4: 10.106.63.179' webvpn_cstp_parse_request_field() ...input: 'X-CSTP-Full-IPv6-Capability: true' Processing CSTP header line: 'X-CSTP-Full-IPv6-Capability: true' webvpn_cstp_parse_request_field() ...input: 'X-DTLS-Master-Secret: F731F1B9371EC4E34DF4FF3FE230D5150B621C30F45D44D9579918C0CFF03BC7EEA7AEA1A59D247F6B70FC8B24237639' Processing CSTP header line: 'X-DTLS-Master-Secret: F731F1B9371EC4E34DF4FF3FE230D5150B621C30F45D44D9579918C0CFF03BC7EEA7AEA1A59D247F6B70FC8B24237639' webvpn_cstp_parse_request_field() ...input: 'X-DTLS-CipherSuite: DHE-RSA-AES256-GCM-SHA384:DHE-RSA-AES256-SHA256:DHE-RSA-AES256-SHA:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA:AES256-SHA:AES128-SHA:DES-CBC3-SHA' Processing CSTP header line: 'X-DTLS-CipherSuite: DHE-RSA-AES256-GCM-SHA384:DHE-RSA-AES256-SHA256:DHE-RSA-AES256-SHA:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA:AES256-SHA:AES128-SHA:DES-CBC3-SHA'

webvpn_cstp_parse_request_field() ...input: 'X-DTLS-Accept-Encoding: lzs' Processing CSTL header line: 'X-DTLS-Accept-Encoding: lzs' webvpn_cstp_parse_request_field() ...input: 'X-DTLS-Header-Pad-Length: 0' webvpn_cstp_parse_request_field() ...input: 'X-CSTP-Accept-Encoding: lzs' Processing CSTP header line: 'X-CSTP-Accept-Encoding: lzs' webvpn_cstp_parse_request_field() ...input: 'X-CSTP-Protocol: Copyright (c) 2004 Cisco Systems, Inc.' Processing CSTP header line: 'X-CSTP-Protocol: Copyright (c) 2004 Cisco Systems, Inc.' **cstp_util_address_ipv4_accept: address asigned: 192.168.100.1**
cstp_util_address_ipv6_accept: No IPv6 Address
np_svc_create_session(0x2F000, 0x00007f884ad8fb00, TRUE)
webvpn_svc_np_setup
SVC ACL Name: NULL
SVC ACL ID: -1
vpn_put_uauth success for ip 192.168.100.1!
No SVC ACL
Iphdr=20 base-mtu=1500 def-mtu=1500 conf-mtu=1406
tcp-mss = 1460
path-mtu = 1460(mss)
TLS Block size = 16, version = 0x303
mtu = 1460(path-mtu) - 12(opts) - 5(ssl) - 16(iv) = 1427
mod-mtu = 1427(mtu) & 0xfff0(complement) = 1424
tls-mtu = 1424(mod-mtu) - 8(cstp) - 48(mac) - 1(pad) = 1367
DTLS Block size = 16
mtu = 1500(base-mtu) - 20(ip) - 8(udp) - 13(dtlshdr) - 16(dtlsiv) = 1443
mod-mtu = 1443(mtu) & 0xfff0(complement) = 1440
dtls-mtu = 1440(mod-mtu) - 1(cdtp) - 20(mac) - 1(pad) = 1418
computed tls-mtu=1367 dtls-mtu=1418 conf-mtu=1406
DTLS enabled for intf=3 (outside)
overide computed dtls-mtu=1418 with conf-mtu=1406
tls-mtu=1367 dtls-mtu=1406
SVC: adding to sessmgmt
Sending X-CSTP-DNS: 10.10.10.99
Sending X-CSTP-Split-Include msgs: for ACL - SPLIT-TUNNEL: Start
    Sending X-CSTP-Split-Include: 10.0.0.0/255.255.255.0
Sending X-CSTP-MTU: 1367
Sending X-DTLS-MTU: 1406
Sending X-CSTP-FW-RULE msgs: Start
Sending X-CSTP-FW-RULE msgs: Done
Sending X-CSTP-Quarantine: false
Sending X-CSTP-Disable-Always-On-VPN: false
Sending X-CSTP-Client-Bypass-Protocol: false
%ASA-7-725011: Cipher[9] : ECDHE-ECDSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[10] : ECDHE-RSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[11] : DHE-RSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[12] : AES128-GCM-SHA256
%ASA-7-725011: Cipher[13] : ECDHE-ECDSA-AES128-SHA256
%ASA-7-725011: Cipher[14] : ECDHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[15] : DHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[16] : AES128-SHA256
%ASA-7-725011: Cipher[17] : DHE-RSA-AES256-SHA
%ASA-7-725011: Cipher[18] : AES256-SHA
%ASA-7-725011: Cipher[19] : DHE-RSA-AES128-SHA
%ASA-7-725011: Cipher[20] : AES128-SHA
%ASA-7-725008: SSL client outside:10.106.44.166/58946 to 10.106.63.179/443 proposes the following 21 cipher(s)
%ASA-7-725011: Cipher[1] : ECDHE-ECDSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[2] : ECDHE-RSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[3] : DHE-RSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[4] : AES256-GCM-SHA384
%ASA-7-725011: Cipher[5] : ECDHE-ECDSA-AES256-SHA384
%ASA-7-725011: Cipher[6] : ECDHE-RSA-AES256-SHA384
%ASA-7-725011: Cipher[7] : DHE-RSA-AES256-SHA256
%ASA-7-725011: Cipher[8] : AES256-SHA256
%ASA-7-725011: Cipher[9] : ECDHE-ECDSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[10] : ECDHE-RSA-AES128-GCM-SHA256

%ASA-7-725011: Cipher[11] : DHE-RSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[12] : AES128-GCM-SHA256
%ASA-7-725011: Cipher[13] : ECDHE-ECDSA-AES128-SHA256
%ASA-7-725011: Cipher[14] : ECDHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[15] : DHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[16] : AES128-SHA256
%ASA-7-725011: Cipher[17] : DHE-RSA-AES256-SHA
%ASA-7-725011: Cipher[18] : AES256-SHA
%ASA-7-725011: Cipher[19] : DHE-RSA-AES128-SHA
%ASA-7-725011: Cipher[20] : AES128-SHA
%ASA-7-725011: Cipher[21] : DES-CBC3-SHA
%ASA-7-725012: Device chooses cipher ECDHE-RSA-AES256-GCM-SHA384 for the SSL session with client outside:10.106.44.166/58946 to 10.106.63.179/443
%ASA-6-725016: Device selects trust-point IDENTITY for client outside:10.106.44.166/58946 to 10.106.63.179/443
%ASA-7-717025: Validating certificate chain containing 1 certificate(s).
%ASA-7-717029: Identified client certificate within certificate chain. serial number: 6400000047147E8BC85E51DBFC4000000000047, subject name: cn=dimenet,ou=HTTS,o=Cisco,l=SJ,st=CA,c=US.
%ASA-7-717030: Found a suitable trustpoint IDCERT to validate certificate.
%ASA-6-717022: Certificate was successfully validated. serial number: 6400000047147E8BC85E51DBFC4000000000047, subject name: cn=dimenet,ou=HTTS,o=Cisco,l=SJ,st=CA,c=US.
%ASA-6-717028: Certificate chain was successfully validated with warning, revocation status was not checked.
%ASA-6-725002: Device completed SSL handshake with client outside:10.106.44.166/58946 to 10.106.63.179/443 for TLSv1.2 session
%ASA-7-717036: Looking for a tunnel group match based on certificate maps for peer certificate with serial number: 6400000047147E8BC85E51DBFC4000000000047, subject name: cn=dimenet,ou=HTTS,o=Cisco,l=SJ,st=CA,c=US, issuer_name: cn=SHERLOCK-CA,dc=calo,dc=lab.
%ASA-4-717037: Tunnel group search using certificate maps failed for peer certificate: serial number: 6400000047147E8BC85E51DBFC4000000000047, subject name: cn=dimenet,ou=HTTS,o=Cisco,l=SJ,st=CA,c=US, issuer_name: cn=SHERLOCK-CA,dc=calo,dc=lab.
%ASA-7-113028: Extraction of username from VPN client certificate has been requested. [Request 36]
%ASA-7-113028: Extraction of username from VPN client certificate has started. [Request 36]
%ASA-7-113028: Extraction of username from VPN client certificate has finished successfully. [Request 36]
%ASA-7-113028: Extraction of username from VPN client certificate has completed. [Request 36]
%ASA-6-113009: AAA retrieved default group policy (GroupPolicy_ANYCONNECT-PROFILE) for user = dimenet
%ASA-7-734003: DAP: User dimenet, Addr 10.106.44.166: Session Attribute aaa.cisco.grouppolicy = GroupPolicy_ANYCONNECT-PROFILE
%ASA-7-734003: DAP: User dimenet, Addr 10.106.44.166: Session Attribute aaa.cisco.username = dimenet
%ASA-7-734003: DAP: User dimenet, Addr 10.106.44.166: Session Attribute aaa.cisco.username1 = dimenet
%ASA-7-734003: DAP: User dimenet, Addr 10.106.44.166: Session Attribute aaa.cisco.username2 =
%ASA-7-734003: DAP: User dimenet, Addr 10.106.44.166: Session Attribute aaa.cisco.tunnelgroup = ANYCONNECT_PROFILE
%ASA-6-734001: DAP: User dimenet, Addr 10.106.44.166, Connection AnyConnect: The following DAP records were selected for this connection: DfltAccessPolicy
%ASA-6-113039: Group <GroupPolicy_ANYCONNECT-PROFILE> User <dimenet> IP <10.106.44.166> AnyConnect parent session started.
%ASA-6-725016: Device selects trust-point IDENTITY for client outside:10.106.44.166/58946 to 10.106.63.179/443
%ASA-6-302013: Built inbound TCP connection 13542 for outside:10.106.44.166/58952 (10.106.44.166/58952) to identity:10.106.63.179/443 (10.106.63.179/443)
%ASA-6-725001: Starting SSL handshake with client outside:10.106.44.166/58952 to 10.106.63.179/443 for TLS session
%ASA-7-725010: Device supports the following 20 cipher(s)
%ASA-7-725011: Cipher[1] : ECDHE-ECDSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[2] : ECDHE-RSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[3] : DHE-RSA-AES256-GCM-SHA384

```
%ASA-7-725011: Cipher[4] : AES256-GCM-SHA384
%ASA-7-725011: Cipher[5] : ECDHE-ECDSA-AES256-SHA384
%ASA-7-725011: Cipher[6] : ECDHE-RSA-AES256-SHA384
%ASA-7-725011: Cipher[7] : DHE-RSA-AES256-SHA256
%ASA-7-725011: Cipher[8] : AES256-SHA256
%ASA-7-725011: Cipher[9] : ECDHE-ECDSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[10] : ECDHE-RSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[11] : DHE-RSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[12] : AES128-GCM-SHA256
%ASA-7-725011: Cipher[13] : ECDHE-ECDSA-AES128-SHA256
%ASA-7-725011: Cipher[14] : ECDHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[15] : DHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[16] : AES128-SHA256
%ASA-7-725011: Cipher[17] : DHE-RSA-AES256-SHA
%ASA-7-725011: Cipher[18] : AES256-SHA
%ASA-7-725011: Cipher[19] : DHE-RSA-AES128-SHA
%ASA-7-725011: Cipher[20] : AES128-SHA
%ASA-7-725008: SSL client outside:10.106.44.166/58952 to 10.106.63.179/443 proposes the
following 21 cipher(s)
%ASA-7-725011: Cipher[1] : ECDHE-RSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[2] : ECDHE-ECDSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[3] : ECDHE-RSA-AES256-SHA384
%ASA-7-725011: Cipher[4] : ECDHE-ECDSA-AES256-SHA384
%ASA-7-725011: Cipher[5] : DHE-RSA-AES256-GCM-SHA384
%ASA-7-725011: Cipher[6] : DHE-RSA-AES256-SHA256
%ASA-7-725011: Cipher[7] : DHE-RSA-AES256-SHA
%ASA-7-725011: Cipher[8] : AES256-GCM-SHA384
%ASA-7-725011: Cipher[9] : AES256-SHA256
%ASA-7-725011: Cipher[10] : AES256-SHA
%ASA-7-725011: Cipher[11] : ECDHE-RSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[12] : ECDHE-ECDSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[13] : ECDHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[14] : ECDHE-ECDSA-AES128-SHA256
%ASA-7-725011: Cipher[15] : DHE-RSA-AES128-GCM-SHA256
%ASA-7-725011: Cipher[16] : DHE-RSA-AES128-SHA256
%ASA-7-725011: Cipher[17] : DHE-RSA-AES128-SHA
%ASA-7-725011: Cipher[18] : AES128-GCM-SHA256
%ASA-7-725011: Cipher[19] : AES128-SHA256
%ASA-7-725011: Cipher[20] : AES128-SHA
%ASA-7-725011: Cipher[21] : DES-CBC3-SHA
%ASA-7-725012: Device chooses cipher ECDHE-RSA-AES256-GCM-SHA384 for the SSL session with client
outside:10.106.44.166/58952 to 10.106.63.179/443
%ASA-6-725016: Device selects trust-point IDENTITY for client outside:10.106.44.166/58952 to
10.106.63.179/443
%ASA-7-725017: No certificates received during the handshake with client
outside:10.106.44.166/58952 to 10.106.63.179/443 for DTLSv1 session
%ASA-6-725002: Device completed SSL handshake with client outside:10.106.44.166/58952 to
10.106.63.179/443 for TLSv1.2 session
%ASA-7-737035: IPAA: Session=0x0002f000, 'IPv4 address request' message queued
%ASA-7-737035: IPAA: Session=0x0002f000, 'IPv6 address request' message queued
%ASA-7-737001: IPAA: Session=0x0002f000, Received message 'IPv4 address request'
%ASA-5-737003: IPAA: Session=0x0002f000, DHCP configured, no viable servers found for tunnel-
group 'ANYCONNECT_PROFILE'
%ASA-6-737026: IPAA: Session=0x0002f000, Client assigned 192.168.100.1 from local pool
%ASA-6-737006: IPAA: Session=0x0002f000, Local pool request succeeded for tunnel-group
'ANYCONNECT_PROFILE'
%ASA-7-737001: IPAA: Session=0x0002f000, Received message 'IPv6 address request'
%ASA-5-737034: IPAA: Session=0x0002f000, IPv6 address: no IPv6 address available from local
pools
%ASA-5-737034: IPAA: Session=0x0002f000, IPv6 address: callback failed during IPv6 request
%ASA-4-722041: TunnelGroup <ANYCONNECT_PROFILE> GroupPolicy <GroupPolicy_ANYCONNECT-PROFILE>
User <dimenet> IP <10.106.44.166> No IPv6 address available for SVC connection
%ASA-7-609001: Built local-host outside:192.168.100.1
%ASA-5-722033: Group <GroupPolicy_ANYCONNECT-PROFILE> User <dimenet> IP <10.106.44.166> First
```

```
TCP SVC connection established for SVC session.
%ASA-6-722022: Group <GroupPolicy_ANYCONNECT-PROFILE> User <dimenet> IP <10.106.44.166> TCP SVC
connection established without compression
%ASA-7-746012: user-identity: Add IP-User mapping 192.168.100.1 - LOCAL\dimenet Succeeded - VPN
user
%ASA-6-722055: Group <GroupPolicy_ANYCONNECT-PROFILE> User <dimenet> IP <10.106.44.166> Client
Type: Cisco AnyConnect VPN Agent for Linux 4.6.03049
%ASA-4-722051: Group <GroupPolicy_ANYCONNECT-PROFILE> User <dimenet> IP <10.106.44.166> IPv4
Address <192.168.100.1> IPv6 address <::> assigned to session
%ASA-6-302015: Built inbound UDP connection 13543 for outside:10.106.44.166/42354
(10.106.44.166/42354) to identity:10.106.63.179/443 (10.106.63.179/443)
%ASA-6-725001: Starting SSL handshake with client outside:10.106.44.166/42354 to
10.106.63.179/443 for DTLS session
%ASA-7-609001: Built local-host outside:10.10.10.99
%ASA-6-302016: Teardown UDP connection 13544 for outside:192.168.100.1/60514(LOCAL\dimenet) to
outside:10.10.10.99/53 duration 0:00:00 bytes 0 (dimenet)
%ASA-7-609002: Teardown local-host outside:10.10.10.99 duration 0:00:00
%ASA-6-302016: Teardown UDP connection 13543 for outside:10.106.44.166/42354 to
identity:10.106.63.179/443 duration 0:00:00 bytes 147
%ASA-6-302015: Built inbound UDP connection 13545 for outside:10.106.44.166/42354
(10.106.44.166/42354) to identity:10.106.63.179/443 (10.106.63.179/443)
%ASA-6-725001: Starting SSL handshake with client outside:10.106.44.166/42354 to
10.106.63.179/443 for DTLS session
%ASA-6-725003: SSL client outside:10.106.44.166/42354 to 10.106.63.179/443 request to resume
previous session
%ASA-6-725002: Device completed SSL handshake with client outside:10.106.44.166/42354 to
10.106.63.179/443 for DTLSv0.9 session
%ASA-5-722033: Group <GroupPolicy_ANYCONNECT-PROFILE> User <dimenet> IP <10.106.44.166> First
UDP SVC connection established for SVC session.
%ASA-6-722022: Group <GroupPolicy_ANYCONNECT-PROFILE> User <dimenet> IP <10.106.44.166> UDP SVC
connection established without compression
%ASA-6-725007: SSL session with client outside:10.106.44.166/58946 to 10.106.63.179/443
terminated
```

- Pour l'authentification de certificat client sur une ASA

  debug crypto Ca 255
  messages 255 du debug crypto Ca
  transactions 255 du debug crypto Ca

Voici un débogage d'échantillon pris pour une authentification réussie de certificat client sur une ASA :

```
CERT_API: PKI session 0x05ba525b open Successful with type SSL
CERT_API: Authenticate session 0x05ba525b, non-blocking cb=0x00007f88839daf00
CERT API thread wakes up!
CERT_API: process msg cmd=0, session=0x05ba525b
CERT_API: Async locked for session 0x05ba525b

CRYPTO_PKI: Begin sorted cert chain
---------Certificate--------:
Serial:  640000004714E8BC85E51DBFC4000000000047
Subject: cn=dimenet,ou=HTTS,o=Cisco,l=SJ,st=CA,c=US
Issuer:  cn=SHERLOCK-CA,dc=calo,dc=lab

CRYPTO_PKI: End sorted cert chain
CRYPTO_PKI: Cert chain pre-processing: List size is 1, trustpool is not in use
CRYPTO_PKI: List pruning is not necessary.
CRYPTO_PKI: Sorted chain size is: 1
CRYPTO_PKI: Found ID cert. serial number: 640000004714E8BC85E51DBFC4000000000047, subject name:
cn=dimenet,ou=HTTS,o=Cisco,l=SJ,st=CA,c=US
```

```
CRYPTO_PKI: Verifying certificate with serial number: 640000004714E8BC85E51DBFC4000000000047,
subject name: cn=dimenet,ou=HTTS,o=Cisco,l=SJ,st=CA,c=US, issuer_name: cn=SHERLOCK-
CA,dc=calo,dc=lab, signature alg: SHA256/RSA.

CRYPTO_PKI: Checking to see if an identical cert is
 already in the database...

CRYPTO_PKI(Cert Lookup) issuer="cn=SHERLOCK-CA,dc=calo,dc=lab" serial number=64 00 00 00 47 14
e8 bc 85 e5 1d bf c4 00 00 00    |  d...G...........
00 00 47                                          |  ..G

CRYPTO_PKI: looking for cert in handle=0x00007f8825ce6c90, digest=
9c 05 9b 71 14 9a 6b 35 35 9f f3 4f c5 eb d8 2a    |  ...q..k55..O...*

CRYPTO_PKI: Cert record not found, returning E_NOT_FOUND
CRYPTO_PKI: Cert not found in database.

CRYPTO_PKI: Looking for suitable trustpoints for connection type SSL

CRYPTO_PKI: Found suitable tp: IDCERT
CRYPTO_PKI: Storage context locked by thread CERT API

CRYPTO_PKI: Found a suitable authenticated trustpoint IDCERT.
CRYPTO_PKI: ExtendedKeyUsage OID = 1.3.6.1.5.5.7.3.2 acceptable for usage type: SSL VPN Peer
CRYPTO_PKI:check_key_usage:Key Usage check OK

CRYPTO_PKI: Certificate validation: Successful, status: 0
CRYPTO_PKI: bypassing revocation checking based on policy configuration
CRYPTO_PKI:Certificate validated. serial number: 640000004714E8BC85E51DBFC4000000000047, subject
name:  cn=dimenet,ou=HTTS,o=Cisco,l=SJ,st=CA,c=US.

CRYPTO_PKI: Storage context released by thread CERT API

CRYPTO_PKI: Certificate validated without revocation check

CRYPTO_PKI: valid cert with warning.

CRYPTO_PKI: valid cert status.
CERT_API: calling user callback=0x00007f88839daf00 with status=0(Success)
CERT_API: Close session 0x05ba525b asynchronously
CERT_API: Async unlocked for session 0x05ba525b
CERT_API: process msg cmd=1, session=0x05ba525b
CERT_API: Async locked for session 0x05ba525b
CERT_API: Async unlocked for session 0x05ba525b
CERT API thread sleeps!
```

- Pour le processus d'AnyConnect sur un client Linux

  Sur un périphérique de Linux, des logs d'Anyconnect peuvent être trouvés dans le fichier nommé « Syslog » au chemin : /var/log/

Voici un échantillon de fonctionner des logs pris d'un client Linux. La commande ci-dessous peut être exécutée pour recueillir les logs vivants pour une connexion client d'Anyconnect.

```
tactest:client$ tail -f /var/log/syslog

Jul  1 08:42:48 machine acvpnui[11774]: An SSL VPN connection to bglanyconnect.cisco.com has
been requested by the user.
Jul  1 08:42:48 machine acvpnui[11774]: Function: getProfileNameFromHost File:
../../vpn/Api/ProfileMgr.cpp Line: 1250 No profile available for host bglanyconnect.cisco.com.
```

Jul 1 08:42:48 machine acvpnui[11774]: Function: getHostInitSettings File:
../../vpn/Api/ProfileMgr.cpp Line: 1334 Profile () not found. Using default settings.
Jul 1 08:42:48 machine acvpnui[11774]: Function: loadProfiles File:
../../vpn/Api/ProfileMgr.cpp Line: 189 No profile is available.
Jul 1 08:42:48 machine acvpnui[11774]: Function: getProfileNameFromHost File:
../../vpn/Api/ProfileMgr.cpp Line: 1250 No profile available for host bglanyconnect.cisco.com.
Jul 1 08:42:48 machine acvpnui[11774]: Using default preferences. Some settings (e.g.
certificate matching) may not function as expected if a local profile is expected to be used.
Verify that the selected host is in the server list section of the profile and that the profile
is configured on the secure gateway.
Jul 1 08:42:48 machine acvpnui[11774]: Function: setConnectionData File:
../../vpn/Api/ConnectMgr.cpp Line: 2015 Resetting certificate list.
Jul 1 08:42:48 machine acvpnui[11774]: Function: getProfileNameFromHost File:
../../vpn/Api/ProfileMgr.cpp Line: 1250 No profile available for host bglanyconnect.cisco.com.
Jul 1 08:42:48 machine acvpnui[11774]: Function: getHostInitSettings File:
../../vpn/Api/ProfileMgr.cpp Line: 1334 Profile () not found. Using default settings.
Jul 1 08:42:48 machine acvpnui[11774]: Function: getCertList File: ../../vpn/Api/ApiCert.cpp Line: 497 Number of certificates found: 1
Jul 1 08:42:48 machine acvpnui[11774]: Function: getProfileNameFromHost File:
../../vpn/Api/ProfileMgr.cpp Line: 1250 No profile available for host bglanyconnect.cisco.com.
Jul 1 08:42:48 machine acvpnui[11774]: Function: getHostInitSettings File:
../../vpn/Api/ProfileMgr.cpp Line: 1334 Profile () not found. Using default settings.
Jul 1 08:42:48 machine acvpnui[11774]: Function: setConnectionData File:
../../vpn/Api/ConnectMgr.cpp Line: 2148 Using certificate which matched stored preferences
**Jul 1 08:42:48 machine acvpnui[11774]: Function: setConnectionData File:
../../vpn/Api/ConnectMgr.cpp Line: 2287 Certificate retrieved from preferences: Subject Name: C=US, ST=CA, L=SJ, O=Cisco, OU=HTTS, CN=dimenet Issuer Name : DC=lab, DC=calo, CN=SHERLOCK-CA Store : PEM File User**
Jul 1 08:42:48 machine acvpnui[11774]: Message type information sent to the user: Contacting
bglanyconnect.cisco.com.
Jul 1 08:42:48 machine acvpnui[11774]: Initiating VPN connection to the secure gateway https://bglanyconnect.cisco.com
Jul 1 08:42:48 machine acvpnagent[1785]: Using default preferences. Some settings (e.g.
certificate matching) may not function as expected if a local profile is expected to be used.
Verify that the selected host is in the server list section of the profile and that the profile
is configured on the secure gateway.
Jul 1 08:42:48 machine acvpnagent[1785]: Function: processConnectNotification File:
../../vpn/Agent/MainThread.cpp Line: 13590 Received connect notification (host
bglanyconnect.cisco.com, profile N/A)
Jul 1 08:42:48 machine acvpnagent[1785]: Function: getDnsConfiguration File:
../../vpn/Common/Utility/NetInterface_unix.cpp Line: 1247 Unable to get domain list for
interface ens32.
Jul 1 08:42:48 machine acvpnagent[1785]: message repeated 2 times: [Function:
getDnsConfiguration File: ../../vpn/Common/Utility/NetInterface_unix.cpp Line: 1247 Unable to
get domain list for interface ens32.]
Jul 1 08:42:48 machine acvpnagent[1785]: Function: resolveHostName File:
../../vpn/Common/Utility/HostLocator.cpp Line: 721 Invoked Function:
CHostLocator::resolveHostNameAlt Return Code: -29229035 (0xFE420015) Description:
DNSREQUEST_ERROR_EMPTY_RESPONSE
Jul 1 08:42:48 machine acvpnagent[1785]: Function: getHostIPAddrByName File:
../../vpn/Common/IPC/SocketSupport.cpp Line: 344 Invoked Function: ::getaddrinfo Return Code: 11
(0x0000000B) Description: unknown
Jul 1 08:42:48 machine acvpnagent[1785]: Function: resolveHostName File:
../../vpn/Common/Utility/HostLocator.cpp Line: 733 Invoked Function:
CSocketSupport::getHostIPAddrByName Return Code: -31129588 (0xFE25000C) Description:
SOCKETSUPPORT_ERROR_GETADDRINFO
Jul 1 08:42:48 machine acvpnagent[1785]: Function: ResolveHostname File:
../../vpn/Common/Utility/HostLocator.cpp Line: 843 Invoked Function:
CHostLocator::resolveHostName Return Code: -31129588 (0xFE25000C) Description:
SOCKETSUPPORT_ERROR_GETADDRINFO failed to resolve host name bglanyconnect.cisco.com to IPv6
address
Jul 1 08:42:48 machine acvpnagent[1785]: Function: logResolutionResult File:
../../vpn/Common/Utility/HostLocator.cpp Line: 927 Host bglanyconnect.cisco.com has been
resolved to IP address 10.106.63.179

Jul 1 08:42:48 machine acvpnagent[1785]: Writing to hosts file:
10.106.63.179#011bglanyconnect.cisco.com ###Cisco AnyConnect VPN client modified this file.
Please do not modify contents until this comment is removed.
Jul 1 08:42:48 machine acvpnagent[1785]: Function: respondToConnectNotification File:
../../vpn/Agent/MainThread.cpp Line: 5831 The requested VPN connection to
bglanyconnect.cisco.com will target the following IP protocols and addresses: primary - IPv4
(address 10.106.63.179), secondary - N/A.
Jul 1 08:42:48 machine acvpnagent[1785]: Function: determineAcidexMacAddrMapForTlv File:
../../vpn/Agent/MainThread.cpp Line: 6143 [ACIDEX] Determined public interface MAC address 00-
50-56-bd-87-1f (interface IPv4 address: 10.106.44.166)
Jul 1 08:42:48 machine acvpnui[11774]: Function: getUserName File:
../../vpn/Api/CTransportCurlStatic.cpp Line: 2249 PasswordEntry username is tactest
Jul 1 08:42:48 machine acvpnui[11774]: Function: findProfile File:
../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 666 NSS Profile directory:
/home/tactest/.mozilla/firefox/6ai2dwqd.default
Jul 1 08:42:48 machine acvpnui[11774]: Function: InitNSS File:
../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 408 Invoked Function: NSS_Initialize
Return Code: -8015 (0xFFFFE0B1) Description: unknown Unknown
Jul 1 08:42:48 machine acvpnui[11774]: Function: CNSSCertStore File:
../../vpn/CommonCrypt/Certificates/NSSCertStore.cpp Line: 76 Invoked Function:
CNSSCertUtils::InitNSS Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:48 machine acvpnui[11774]: Function: addNSSStore File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 1874 Invoked Function:
CNSSCertStore::CNSSCertStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:48 machine acvpnui[11774]: Function: OpenStores File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 449 Invoked Function:
CCollectiveCertStore::addNSSStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:48 machine acvpnui[11774]: Function: verify_callback File:
../../vpn/CommonCrypt/Certificates/FileCertificate.cpp Line: 417 Invoked Function:
X509_verify_cert Return Code: 0 (0x00000000) Description: ok
Jul 1 08:42:48 machine acvpnui[11774]: Function: verify_callback File:
../../vpn/CommonCrypt/Certificates/FileCertificate.cpp Line: 417 Invoked Function:
X509_verify_cert Return Code: 0 (0x00000000) Description: ok
Jul 1 08:42:48 machine acvpnui[11774]: Function: PeerCertVerifyCB File:
../../vpn/Api/CTransportCurlStatic.cpp Line: 959 Return success from VerifyServerCertificate
Jul 1 08:42:48 machine acvpnui[11774]: Function: processResponseStringFromSG File:
../../vpn/Api/ConnectMgr.cpp Line: 11991 Client certificate requested by peer (via AggAuth)
Jul 1 08:42:48 machine acvpnui[11774]: Function: getUserName File:
../../vpn/Api/CTransportCurlStatic.cpp Line: 2249 PasswordEntry username is tactest
Jul 1 08:42:48 machine acvpnui[11774]: Function: findProfile File:
../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 666 NSS Profile directory:
/home/tactest/.mozilla/firefox/6ai2dwqd.default
Jul 1 08:42:48 machine acvpnui[11774]: Function: InitNSS File:
../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 408 Invoked Function: NSS_Initialize
Return Code: -8015 (0xFFFFE0B1) Description: unknown Unknown
Jul 1 08:42:48 machine acvpnui[11774]: Function: CNSSCertStore File:
../../vpn/CommonCrypt/Certificates/NSSCertStore.cpp Line: 76 Invoked Function:
CNSSCertUtils::InitNSS Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:48 machine acvpnui[11774]: Function: addNSSStore File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 1874 Invoked Function:
CNSSCertStore::CNSSCertStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:48 machine acvpnui[11774]: Function: OpenStores File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 449 Invoked Function:
CCollectiveCertStore::addNSSStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:48 machine acvpnui[11774]: Function: verify_callback File:
../../vpn/CommonCrypt/Certificates/FileCertificate.cpp Line: 417 Invoked Function:
X509_verify_cert Return Code: 0 (0x00000000) Description: ok
Jul 1 08:42:48 machine acvpnui[11774]: Function: verify_callback File:

../../vpn/CommonCrypt/Certificates/FileCertificate.cpp Line: 417 Invoked Function: X509_verify_cert Return Code: 0 (0x00000000) Description: ok
Jul 1 08:42:48 machine acvpnui[11774]: Function: PeerCertVerifyCB File: ../../vpn/Api/CTransportCurlStatic.cpp Line: 959 Return success from VerifyServerCertificate
Jul 1 08:42:48 machine acvpnui[11774]: Function: ClientCertSetCB File: ../../vpn/Api/CTransportCurlStatic.cpp Line: 1063 Client certificate requested by peer
Jul 1 08:42:48 machine acvpnui[11774]: Function: getUserName File: ../../vpn/Api/CTransportCurlStatic.cpp Line: 2249 PasswordEntry username is tactest
Jul 1 08:42:48 machine acvpnui[11774]: Function: findProfile File: ../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 666 NSS Profile directory: /home/tactest/.mozilla/firefox/6ai2dwqd.default
Jul 1 08:42:48 machine acvpnui[11774]: Function: InitNSS File: ../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 408 Invoked Function: NSS_Initialize Return Code: -8015 (0xFFFFE0B1) Description: unknown Unknown
Jul 1 08:42:48 machine acvpnui[11774]: Function: CNSSCertStore File: ../../vpn/CommonCrypt/Certificates/NSSCertStore.cpp Line: 76 Invoked Function: CNSSCertUtils::InitNSS Return Code: -31457269 (0xFE20000B) Description: CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:48 machine acvpnui[11774]: Function: addNSSStore File: ../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 1874 Invoked Function: CNSSCertStore::CNSSCertStore Return Code: -31457269 (0xFE20000B) Description: CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:48 machine acvpnui[11774]: Function: OpenStores File: ../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 449 Invoked Function: CCollectiveCertStore::addNSSStore Return Code: -31457269 (0xFE20000B) Description: CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:48 machine acvpnui[11774]: Function: GetCertChain File: ../../vpn/CommonCrypt/Certificates/FileCertStore.cpp Line: 618 Invoked Function: enumerateCert Return Code: -31457266 (0xFE20000E) Description: CERTSTORE_ERROR_CERT_NOT_FOUND
Jul 1 08:42:48 machine acvpnui[11774]: Function: ProcessPromptData File: ../../vpn/Api/SDIMgr.cpp Line: 336 Authentication is not token based (OTP).
Jul 1 08:42:48 machine acvpnui[11774]: Function: getProfileNameFromHost File: ../../vpn/Api/ProfileMgr.cpp Line: 1250 No profile available for host bglanyconnect.cisco.com.
Jul 1 08:42:48 machine acvpnui[11774]: Function: getHostInitSettings File: ../../vpn/Api/ProfileMgr.cpp Line: 1334 Profile () not found. Using default settings.
Jul 1 08:42:48 machine acvpnui[11774]: Message type prompt sent to the user: Your client certificate will be used for authentication
Jul 1 08:42:50 machine acvpnui[11774]: Function: userResponse File: ../../vpn/Api/ConnectMgr.cpp Line: 1606 Processing user response.
Jul 1 08:42:50 machine acvpnui[11774]: Function: processIfcData File: ../../vpn/Api/ConnectMgr.cpp Line: 3650 Authentication succeeded
Jul 1 08:42:50 machine acvpnui[11774]: VPN state: Connecting Network state: Network Accessible Network control state: Network Access: Available Network type: Undefined
Jul 1 08:42:50 machine acvpnui[11774]: Message type information sent to the user: Establishing VPN session...
Jul 1 08:42:50 machine acvpnui[11774]: Function: getProfileConfiguredOnSG File: ../../vpn/Api/ConnectMgr.cpp Line: 10896 VPN Profile Manifest entry not present
Jul 1 08:42:50 machine acvpnui[11774]: Function: initiateTunnel File: ../../vpn/Api/ConnectMgr.cpp Line: 11279 Invoked Function: ConnectMgr::getProfileConfiguredOnSG Return Code: -29556727 (0xFE3D0009) Description: CONNECTMGR_ERROR_UNEXPECTED
Jul 1 08:42:50 machine acvpnui[11774]: Function: launchCachedDownloader File: ../../vpn/Api/ConnectMgr.cpp Line: 8228 Launching Cached Downloader: path: '/opt/cisco/anyconnect/bin/vpndownloader' cmd: '"-ipc#011gc#011-cd"'
Jul 1 08:42:50 machine acvpnui[11774]: Function: IsValid File: ../../vpn/CommonCrypt/VerifyFileSignatureOpenSSL.cpp Line: 280 Not validating original name for file (/opt/cisco/anyconnect/bin/vpndownloader)
Jul 1 08:42:50 machine acvpnui[11774]: Function: findProfile File: ../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 666 NSS Profile directory: /home/tactest/.mozilla/firefox/6ai2dwqd.default
Jul 1 08:42:50 machine acvpnui[11774]: Function: InitNSS File: ../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 408 Invoked Function: NSS_Initialize Return Code: -8015 (0xFFFFE0B1) Description: unknown Unknown
Jul 1 08:42:50 machine acvpnui[11774]: Function: CNSSCertStore File: ../../vpn/CommonCrypt/Certificates/NSSCertStore.cpp Line: 76 Invoked Function:

CNSSCertUtils::InitNSS Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:50 machine acvpnui[11774]: Function: addNSSStore File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 1874 Invoked Function:
CNSSCertStore::CNSSCertStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:50 machine acvpnui[11774]: Function: OpenStores File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 449 Invoked Function:
CCollectiveCertStore::addNSSStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:50 machine acvpnui[11774]: Function: verify_callback File:
../../vpn/CommonCrypt/Certificates/FileCertificate.cpp Line: 417 Invoked Function:
X509_verify_cert Return Code: 0 (0x00000000) Description: ok
Jul 1 08:42:50 machine acvpnui[11774]: message repeated 2 times: [Function: verify_callback
File: ../../vpn/CommonCrypt/Certificates/FileCertificate.cpp Line: 417 Invoked Function:
X509_verify_cert Return Code: 0 (0x00000000) Description: ok]
Jul 1 08:42:50 machine acvpnui[11774]: Server certificate validation was successful
Jul 1 08:42:50 machine acvpnui[11774]: Function: launchCachedDownloader File:
../../vpn/Api/ConnectMgr.cpp Line: 8247 Invoked Function: ConnectMgr::launchCachedDownloader
Return Code: 0 (0x00000000) Description: Successfully launched the cached downloader Jul 1
08:42:50 machine acvpndownloader[13609]: Cisco AnyConnect Secure Mobility Client Downloader
(VPN) started, version 4.6.03049 Jul 1 08:42:50 machine acvpndownloader[13609]: Function:
handleInvalidPid File: ../../vpn/Common/FirstInstance.cpp Line: 524 PID file does not exist. Jul
1 08:42:50 machine acvpndownloader[13609]: Function: init File:
../../vpn/Common/i18n/MsgCatalog.cpp Line: 373 initialized catalog: AnyConnect with locale: Jul
1 08:42:50 machine acvpndownloader[13609]: Function: loadProfiles File:
../../vpn/Api/ProfileMgr.cpp Line: 189 No profile is available. Jul 1 08:42:50 machine
acvpndownloader[13609]: Function: invokePreferenceUpdateCBs File:
../../vpn/Api/PreferenceMgr.cpp Line: 1512 Callback interface address is NULL. Jul 1 08:42:50
machine acvpndownloader[13609]: Current Preference Settings: ServiceDisable: false
ShowPreConnectMessage: false AutoConnectOnStart: false MinimizeOnConnect: true LocalLanAccess:
false DisableCaptivePortalDetection: false AutoReconnect: true AutoUpdate: true ProxySettings:
Native AllowLocalProxyConnections: true PPPExclusion: Disable PPPExclusionServerIP:
AutomaticVPNPolicy: false TrustedNetworkPolicy: Disconnect UntrustedNetworkPolicy: Connect
TrustedDNSDomains: TrustedDNSServers: TrustedHttpsServerList: EnableScripting: false
TerminateScriptOnNextEvent: false EnableAutomaticServerSelection: false AuthenticationTimeout:
12 IPProtocolSupport: IPv4,IPv6 AllowManualHostInput: true BlockUntrustedServers: false
PublicProxyServerAddress: CertificatePinning: false Jul 1 08:42:50 machine
acvpndownloader[13609]: The AnyConnect Downloader is performing update checks... Jul 1 08:42:50
machine acvpnui[11774]: Message type information sent to the user: The AnyConnect Downloader is
performing update checks... Jul 1 08:42:50 machine acvpnui[11774]: Function:
processDnldrArgsRequest File: ../../vpn/Api/ConnectMgr.cpp Line: 15162 Determine proxy: false
Jul 1 08:42:50 machine acvpnui[11774]: Function: findProfile File:
../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 666 NSS Profile directory:
/home/tactest/.mozilla/firefox/6ai2dwqd.default Jul 1 08:42:50 machine acvpnui[11774]: Function:
InitNSS File: ../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 408 Invoked Function:
NSS_Initialize Return Code: -8015 (0xFFFFE0B1) Description: unknown Unknown Jul 1 08:42:50
machine acvpnui[11774]: Function: CNSSCertStore File:
../../vpn/CommonCrypt/Certificates/NSSCertStore.cpp Line: 76 Invoked Function:
CNSSCertUtils::InitNSS Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR Jul 1 08:42:50 machine acvpnui[11774]: Function: addNSSStore
File: ../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 1874 Invoked Function:
CNSSCertStore::CNSSCertStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR Jul 1 08:42:50 machine acvpnui[11774]: Function: OpenStores File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 449 Invoked Function:
CCollectiveCertStore::addNSSStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR Jul 1 08:42:50 machine acvpnui[11774]: Function: GetCertChain
File: ../../vpn/CommonCrypt/Certificates/FileCertStore.cpp Line: 618 Invoked Function:
enumerateCert Return Code: -31457266 (0xFE20000E) Description: CERTSTORE_ERROR_CERT_NOT_FOUND
Jul 1 08:42:50 machine acvpndownloader[13609]: Function: getManifestFromConfigXml File:
../../../vpn/Downloader/DownloaderArgs.cpp Line: 657 Language manifest not present Jul 1
08:42:50 machine acvpndownloader[13609]: Function: getManifestFromConfigXml File:
../../../vpn/Downloader/DownloaderArgs.cpp Line: 666 Customization manifest not present Jul 1
08:42:50 machine acvpndownloader[13609]: Function: getManifestFromConfigXml File:

../../../vpn/Downloader/DownloaderArgs.cpp Line: 675 Profile manifest not present Jul 1 08:42:50 machine acvpndownloader[13609]: Function: parseBaseConfig File: ../../../vpn/Downloader/DownloaderArgs.cpp Line: 872 No optional modules in aggregate config xml. Jul 1 08:42:50 machine acvpndownloader[13609]: Function: parseMiscInfo File: ../../../vpn/Downloader/DownloaderArgs.cpp Line: 898 VPN Profile Manifest entry not present Jul 1 08:42:50 machine acvpndownloader[13609]: Function: parseCustomAttributes File: ../../../vpn/Downloader/DownloaderArgs.cpp Line: 937 Custom attribute entry not present Jul 1 08:42:50 machine acvpndownloader[13609]: Function: setHostnameAndPort File: ../../../vpn/Downloader/DownloaderArgs.cpp Line: 545 Defaulting to port 443 Jul 1 08:42:50 machine acvpndownloader[13609]: Connecting to bglanyconnect.cisco.com. Jul 1 08:42:50 machine acvpndownloader[13609]: Authorized Server List is not defined in local policy. Treating bglanyconnect.cisco.com as authorized. Any configured local policy software and profile locks do not apply. Jul 1 08:42:50 machine acvpndownloader[13609]: Checking for profile updates... Jul 1 08:42:50 machine acvpndownloader[13609]: Checking for product updates... **Jul 1 08:42:50 machine acvpnui[11774]: Message type information sent to the user: Checking for profile updates...**
Jul 1 08:42:50 machine acvpndownloader[13609]: Skipping update of AnyConnect Secure Mobility Client 4.6.03049 because an up-to-date version is already installed.
Jul 1 08:42:50 machine acvpndownloader[13609]: Skipping update of AnyConnect DART 4.6.03049 because an up-to-date version is already installed.
Jul 1 08:42:50 machine acvpndownloader[13609]: Checking for customization updates...
Jul 1 08:42:50 machine acvpndownloader[13609]: Performing any required updates...
Jul 1 08:42:50 machine acvpndownloader[13609]: The AnyConnect Downloader updates have been completed.
Jul 1 08:42:50 machine acvpnagent[1785]: Function: OnIpcMessageReceived File: ../../vpn/Common/IPC/IPCDepot.cpp Line: 1115 Invoked Function: CIpcTransport::OnSocketReadComplete Return Code: -33292279 (0xFE040009) Description: IPCTRANSPORT_ERROR_UNEXPECTED
Jul 1 08:42:50 machine acvpndownloader[13609]: Function: Serialize File: ../../vpn/Common/TLV/CertificateInfoTlv.cpp Line: 799 Data to serialize is empty
Jul 1 08:42:50 machine acvpndownloader[13609]: Function: Assign File: ../../vpn/Common/TLV/CertificateInfoTlv.cpp Line: 87 Invoked Function: CCertificateInfoTlv::Serialize Return Code: -21954549 (0xFEB1000B) Description: CERTIFICATEINFO_ERROR_NO_DATA:No certificate data was found
Jul 1 08:42:50 machine acvpndownloader[13609]: Function: GetAggAuthCertificateInfo File: ../../../vpn/Downloader/DownloaderArgs.cpp Line: 1828 Invoked Function: CCertificateInfoTlv::Assign Return Code: -21954549 (0xFEB1000B) Description: CERTIFICATEINFO_ERROR_NO_DATA:No certificate data was found
Jul 1 08:42:50 machine acvpnagent[1785]: Function: GetAggAuthCertificateInfo File: ../../vpn/Common/TLV/startparameters.cpp Line: 1365 Invoked Function: CStartParameters::GetInfoByType Return Code: -32440304 (0xFE110010) Description: TLV_ERROR_NO_ATTRIBUTE
Jul 1 08:42:50 machine acvpnagent[1785]: Tunnel initiated by GUI Client.
Jul 1 08:42:50 machine acvpnagent[1785]: Using default preferences. Some settings (e.g. certificate matching) may not function as expected if a local profile is expected to be used. Verify that the selected host is in the server list section of the profile and that the profile is configured on the secure gateway.
Jul 1 08:42:50 machine acvpnagent[1785]: Function: GetAggAuthCertificateInfo File: ../../vpn/Common/TLV/startparameters.cpp Line: 1365 Invoked Function: CStartParameters::GetInfoByType Return Code: -32440304 (0xFE110010) Description: TLV_ERROR_NO_ATTRIBUTE
Jul 1 08:42:50 machine acvpnagent[1785]: Function: Serialize File: ../../vpn/Common/TLV/CertificateInfoTlv.cpp Line: 799 Data to serialize is empty
Jul 1 08:42:50 machine acvpnagent[1785]: Function: Assign File: ../../vpn/Common/TLV/CertificateInfoTlv.cpp Line: 87 Invoked Function: CCertificateInfoTlv::Serialize Return Code: -21954549 (0xFEB1000B) Description: CERTIFICATEINFO_ERROR_NO_DATA:No certificate data was found
Jul 1 08:42:50 machine acvpnagent[1785]: Function: SetAggAuthCertificateInfo File: ../../vpn/AgentUtilities/vpnparam.cpp Line: 1165 Invoked Function: CCertificateInfoTlv::Assign Return Code: -21954549 (0xFEB1000B) Description: CERTIFICATEINFO_ERROR_NO_DATA:No certificate data was found
Jul 1 08:42:50 machine acvpnagent[1785]: Secure Gateway Parameters: Primary IP Address: 10.106.63.179 Secondary IP Address: N/A Domain name: bglanyconnect.cisco.com Port: 443 URL: "https://bglanyconnect.cisco.com:443/CACHE/stc/2/" Auth method: SSL Proxy Server: ""
Jul 1 08:42:50 machine acvpnagent[1785]: Initiating Cisco AnyConnect Secure Mobility Client

connection, version 4.6.03049
Jul 1 08:42:50 machine acvpnagent[1785]: Function: OnTunnelStateChange File:
../../vpn/Agent/TND.cpp Line: 2030 tunnel state change notification (new 0, old 4)
Jul 1 08:42:50 machine acvpnagent[1785]: Function: STLoadLibrary File:
../../vpn/Common/Utility/Win/HModuleMgr.cpp Line: 148 Invoked Function: dlopen Return Code: 0
(0x00000000) Description: libz.so: cannot open shared object file: No such file or directory
Jul 1 08:42:50 machine acvpnagent[1785]: Function: LoadLibrary File: ../../vpn/Agent/CZLib.cpp
Line: 246 Invoked Function: CHModuleMgr::STLoadLibrary Return Code: -33554425 (0xFE000007)
Description: GLOBAL_ERROR_NOT_INITIALIZED
Jul 1 08:42:50 machine acvpnagent[1785]: Function: CCstpProtocol File:
../../vpn/Agent/CstpProtocol.cpp Line: 327 Invoked Function: CZLib Return Code: -31981557
(0xFE18000B) Description: CZLIB_ERROR_LOAD_LIBRARY
Jul 1 08:42:50 machine acvpnagent[1785]: Function: findProfile File:
../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 666 NSS Profile directory:
/home/tactest/.mozilla/firefox/6ai2dwqd.default
Jul 1 08:42:50 machine acvpnagent[1785]: Function: InitNSS File:
../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 408 Invoked Function: NSS_Initialize
Return Code: -8015 (0xFFFFE0B1) Description: unknown Unknown
Jul 1 08:42:50 machine acvpnagent[1785]: Function: CNSSCertStore File:
../../vpn/CommonCrypt/Certificates/NSSCertStore.cpp Line: 76 Invoked Function:
CNSSCertUtils::InitNSS Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:50 machine acvpnagent[1785]: Function: addNSSStore File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 1874 Invoked Function:
CNSSCertStore::CNSSCertStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:50 machine acvpnagent[1785]: Function: OpenStores File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 449 Invoked Function:
CCollectiveCertStore::addNSSStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
**Jul 1 08:42:50 machine acvpnagent[1785]: The Primary SSL connection to the secure gateway is
being established.**
Jul 1 08:42:50 machine acvpnagent[1785]: Function: OnTunnelStateChange File:
../../vpn/Agent/TND.cpp Line: 2030 tunnel state change notification (new 0, old 0)
Jul 1 08:42:50 machine acvpnagent[1785]: Function: postSocketConnectProcessing File:
../../vpn/Agent/SslTunnelTransport.cpp Line: 1421 Opened SSL socket from [10.106.44.166]:58980
to [10.106.63.179]:443
Jul 1 08:42:50 machine NetworkManager[940]: <info> [1561984970.2702] manager: (cscotun0): new
Tun device (/org/freedesktop/NetworkManager/Devices/16)
Jul 1 08:42:50 machine NetworkManager[940]: <info> [1561984970.2730] devices added (path:
/sys/devices/virtual/net/cscotun0, iface: cscotun0)
Jul 1 08:42:50 machine NetworkManager[940]: <info> [1561984970.2730] device added (path:
/sys/devices/virtual/net/cscotun0, iface: cscotun0): no ifupdown configuration found.
Jul 1 08:42:50 machine acvpnagent[13620]: Function: findProfile File:
../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 666 NSS Profile directory:
/home/tactest/.mozilla/firefox/6ai2dwqd.default
Jul 1 08:42:50 machine acvpnagent[13620]: Function: InitNSS File:
../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 408 Invoked Function: NSS_Initialize
Return Code: -8015 (0xFFFFE0B1) Description: unknown Unknown
Jul 1 08:42:50 machine acvpnagent[13620]: Function: CNSSCertStore File:
../../vpn/CommonCrypt/Certificates/NSSCertStore.cpp Line: 76 Invoked Function:
CNSSCertUtils::InitNSS Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:50 machine acvpnagent[13620]: Function: addNSSStore File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 1874 Invoked Function:
CNSSCertStore::CNSSCertStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:50 machine acvpnagent[13620]: Function: OpenStores File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 449 Invoked Function:
CCollectiveCertStore::addNSSStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:50 machine acvpnagent[13620]: Function: findProfile File:
../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 666 NSS Profile directory:
/home/tactest/.mozilla/firefox/6ai2dwqd.default

Jul 1 08:42:50 machine acvpnagent[13620]: Function: InitNSS File:
../../vpn/CommonCrypt/Certificates/NSSCertUtils.cpp Line: 408 Invoked Function: NSS_Initialize
Return Code: -8015 (0xFFFFE0B1) Description: unknown Unknown
Jul 1 08:42:50 machine acvpnagent[13620]: Function: CNSSCertStore File:
../../vpn/CommonCrypt/Certificates/NSSCertStore.cpp Line: 76 Invoked Function:
CNSSCertUtils::InitNSS Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:50 machine acvpnagent[13620]: Function: addNSSStore File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 1874 Invoked Function:
CNSSCertStore::CNSSCertStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:50 machine acvpnagent[13620]: Function: OpenStores File:
../../vpn/CommonCrypt/Certificates/CollectiveCertStore.cpp Line: 449 Invoked Function:
CCollectiveCertStore::addNSSStore Return Code: -31457269 (0xFE20000B) Description:
CERTSTORE_ERROR_PROVIDER_ERROR
Jul 1 08:42:50 machine acvpnagent[13620]: Function: init File:
../../vpn/Common/i18n/MsgCatalog.cpp Line: 373 initialized catalog: AnyConnect with locale:
Jul 1 08:42:50 machine acvpnagent[13620]: Function: loadProfiles File:
../../vpn/Api/ProfileMgr.cpp Line: 189 No profile is available.
Jul 1 08:42:50 machine acvpnagent[13620]: Function: invokePreferenceUpdateCBs File:
../../vpn/Api/PreferenceMgr.cpp Line: 1512 Callback interface address is NULL.
Jul 1 08:42:50 machine acvpnagent[13620]: Current Preference Settings: ServiceDisable: false
ShowPreConnectMessage: false AutoConnectOnStart: false MinimizeOnConnect: true LocalLanAccess:
false DisableCaptivePortalDetection: false AutoReconnect: true AutoUpdate: true ProxySettings:
Native AllowLocalProxyConnections: true PPPExclusion: Disable PPPExclusionServerIP:
AutomaticVPNPolicy: false TrustedNetworkPolicy: Disconnect UntrustedNetworkPolicy: Connect
TrustedDNSDomains: TrustedDNSServers: TrustedHttpsServerList: EnableScripting: false
TerminateScriptOnNextEvent: false EnableAutomaticServerSelection: false AuthenticationTimeout:
12 IPProtocolSupport: IPv4,IPv6 AllowManualHostInput: true BlockUntrustedServers: false
PublicProxyServerAddress: CertificatePinning: false
Jul 1 08:42:50 machine acvpnagent[13620]: Using default preferences. Some settings (e.g.
certificate matching) may not function as expected if a local profile is expected to be used.
Verify that the selected host is in the server list section of the profile and that the profile
is configured on the secure gateway.
Jul 1 08:42:50 machine acvpnagent[13620]: Function: GetCertificatePins File:
../../vpn/Api/PreferenceMgr.cpp Line: 1795 Invoked Function:
ProfileMgr::GetProfileNameFromAddress Return Code: -26083317 (0xFE72000B) Description:
PROFILEMGR_ERROR_HOST_ADDRESS_NOT_FOUND_IN_ANY_PROFILE Server address bglanyconnect.cisco.com
not found in any profile.
Jul 1 08:42:50 machine acvpnagent[13620]: Function: verify_callback File:
../../vpn/CommonCrypt/Certificates/FileCertificate.cpp Line: 417 Invoked Function:
X509_verify_cert Return Code: 0 (0x00000000) Description: ok
Jul 1 08:42:50 machine acvpnagent[13620]: Function: verify_callback File:
../../vpn/CommonCrypt/Certificates/FileCertificate.cpp Line: 417 Invoked Function:
X509_verify_cert Return Code: 0 (0x00000000) Description: ok
Jul 1 08:42:50 machine acvpnagent[1785]: Function: verifyServerCertificate File:
../../vpn/Agent/CertOpenSSLAdapter.cpp Line: 834 certificate confirmation reason=0x0
Jul 1 08:42:50 machine acvpnagent[1785]: A SSL connection has been established using cipher
ECDHE-RSA-AES256-GCM-SHA384
Jul 1 08:42:50 machine acvpnagent[1785]: Function: calculateTunnelMTU File:
../../vpn/Agent/CstpProtocol.cpp Line: 2846 The candidate MTU (1399) is derived from the
physical interface MTU.
Jul 1 08:42:50 machine acvpnagent[1785]: Function: startHTTPNegotiation File:
../../vpn/Agent/CstpProtocol.cpp Line: 1018 Proposed base MTU is 1500.
Jul 1 08:42:50 machine acvpnagent[1785]: Current Profile: none Received VPN Session
Configuration Settings: Keep Installed: enabled Rekey Method: disabled Proxy Setting: do not
modify Proxy Server: none Proxy PAC URL: none Proxy Exceptions: none Proxy Lockdown: enabled
IPv4 Split Exclude: disabled IPv6 Split Exclude: disabled IPv4 Dynamic Split Exclude: disabled
IPv6 Dynamic Split Exclude: disabled IPv4 Split Include: 1 IPv4 private networks IPv6 Split
Include: disabled IPv4 Dynamic Split Include: disabled IPv6 Dynamic Split Include: disabled
IPv4 Split DNS: disabled IPv6 Split DNS: disabled Tunnel all DNS: disabled IPv4 Local LAN
Wildcard: local LAN access preference is disabled IPv6 Local LAN Wildcard: local LAN access
preference is disabled Firewall Rules: none Client Address: 192.168.100.1 Client Mask:
255.255.255.0 Client IPv6 Address: FE80:0:0:0:72F5:2CAF:BCCC:5145 (auto-generated) Client IPv6

Mask: FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFC TLS MTU: 1367 TLS Compression: disabled TLS Keep Alive: 20 seconds TLS Rekey Interval: none TLS DPD: 30 seconds DTLS: enabled DTLS MTU: 1406 DTLS Compression: disabled DTLS Keep Alive: 20 seconds DTLS Rekey Interval: none DTLS DPD: 30 seconds Session Timeout: none Session Timeout Alert Interval: 60 seconds Session Timeout Remaining: none Disconnect Timeout: 1800 seconds Idle Timeout: 1800 seconds Server: ASA (9.9(2)36) MUS Host: unknown DAP User Message: none Quarantine State: disabled Always On VPN: not disabled Lease Duration: 1209600 seconds Default Domain: cisco.com Home page: unknown Smart Card Removal Disconnect: enabled License Response: unknown SG TCP Keep Alive: enabled Peer's Local IPv4 Address: N/A Peer's Local IPv6 Address: N/A Peer's Remote IPv4 Address: N/A Peer's Remote IPv6 Address: N/A Peer's host name: bglanyconnect.cisco.com Client Protocol Bypass: false
Jul 1 08:42:50 machine acvpnagent[1785]: The Primary SSL connection to the secure gateway has been established.
Jul 1 08:42:50 machine acvpnagent[1785]: Function: OnTunnelStateChange File: ../../vpn/Agent/TND.cpp Line: 2030 tunnel state change notification (new 0, old 0)
Jul 1 08:42:50 machine acvpnagent[1785]: Function: addSplitIncludeNetworksForTunnelDnsServers File: ../../vpn/Agent/VpnMgr.cpp Line: 1108 Added split-include network for tunnel DNS server 10.10.10.99
Jul 1 08:42:50 machine acvpnagent[1785]: VPN Adapter Configuration: IPv4 address: 192.168.100.1/24 IPv6 address: FE80:0:0:0:72F5:2CAF:BCCC:5145/126 (auto-generated) Default domain: cisco.com DNS suffixes: N/A DNS servers: 10.10.10.99 WINS servers: N/A MTU: 1406
Jul 1 08:42:50 machine acvpnagent[1785]: Host Configuration: Public address: 10.106.44.166/24 Potential public addresses: 10.106.44.166 Private Address: 192.168.100.1/24 Private IPv6 Address: FE80:0:0:0:72F5:2CAF:BCCC:5145/126 (auto-generated) Remote Peers: 10.106.63.179 (TCP port 443, UDP port 443, source address 10.106.44.166) Private Networks: 2 (10.0.0.0/24, 10.10.10.99/32) Private IPv6 Networks: none Public Networks: none Public IPv6 Networks: none Tunnel Mode: yes Tunnel all DNS: no
Jul 1 08:42:50 machine NetworkManager[940]: <info> [1561984970.3025] device (cscotun0): state change: unmanaged -> unavailable (reason 'connection-assumed') [10 20 41]
Jul 1 08:42:50 machine acvpnui[11774]: Message type information sent to the user: Checking for product updates...
Jul 1 08:42:50 machine acvpnui[11774]: Message type information sent to the user: Checking for customization updates...
Jul 1 08:42:50 machine NetworkManager[940]: <info> [1561984970.3046] keyfile: add connection in-memory (c9f1c86e-5e5c-4966-8260-be7e751b642d,"cscotun0")
Jul 1 08:42:50 machine acvpnui[11774]: Message type information sent to the user: Performing any required updates...
Jul 1 08:42:50 machine NetworkManager[940]: <info> [1561984970.3051] device (cscotun0): state change: unavailable -> disconnected (reason 'connection-assumed') [20 30 41]
Jul 1 08:42:50 machine acvpnui[11774]: Message type information sent to the user: The AnyConnect Downloader updates have been completed.
Jul 1 08:42:50 machine NetworkManager[940]: <info> [1561984970.3058] device (cscotun0): Activation: starting connection 'cscotun0' (c9f1c86e-5e5c-4966-8260-be7e751b642d)
Jul 1 08:42:50 machine acvpnui[11774]: VPN state: Connecting Network state: Network Accessible Network control state: Network Access: Available Network type: Undefined
Jul 1 08:42:50 machine acvpnui[11774]: Message type information sent to the user: Establishing VPN session...
Jul 1 08:42:50 machine acvpnui[11774]: Message type information sent to the user: Establishing VPN - Initiating connection...
Jul 1 08:42:50 machine NetworkManager[940]: <info> [1561984970.3064] device (cscotun0): state change: disconnected -> prepare (reason 'none') [30 40 0]
Jul 1 08:42:50 machine acvpnui[11774]: Message type information sent to the user: Establishing VPN - Examining system...
Jul 1 08:42:50 machine NetworkManager[940]: <info> [1561984970.3067] device (cscotun0): state change: prepare -> config (reason 'none') [40 50 0]
Jul 1 08:42:50 machine acvpnui[11774]: Message type information sent to the user: Establishing VPN - Activating VPN adapter...
Jul 1 08:42:50 machine NetworkManager[940]: <info> [1561984970.3068] device (cscotun0): state change: config -> ip-config (reason 'none') [50 70 0]
Jul 1 08:42:50 machine acvpnui[11774]: Message type information sent to the user: Establishing VPN - Configuring system...
Jul 1 08:42:50 machine NetworkManager[940]: <info> [1561984970.3070] device (cscotun0): state change: ip-config -> ip-check (reason 'none') [70 80 0]
Jul 1 08:42:50 machine NetworkManager[940]: <info> [1561984970.3073] device (cscotun0): state

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change: ip-check -> secondaries (reason 'none') [80 90 0]
Jul  1 08:42:50 machine NetworkManager[940]: <info>  [1561984970.3075] device (cscotun0): state
change: secondaries -> activated (reason 'none') [90 100 0]
Jul  1 08:42:50 machine NetworkManager[940]: <info>  [1561984970.3111] device (cscotun0):
Activation: successful, device activated.
Jul  1 08:42:50 machine dbus[935]: [system] Activating via systemd: service
name='org.freedesktop.nm_dispatcher' unit='dbus-org.freedesktop.nm-dispatcher.service'
Jul  1 08:42:50 machine systemd[1]: Starting Network Manager Script Dispatcher Service...
Jul  1 08:42:50 machine dbus[935]: [system] Successfully activated service
'org.freedesktop.nm_dispatcher'
Jul  1 08:42:50 machine systemd[1]: Started Network Manager Script Dispatcher Service.
Jul  1 08:42:50 machine nm-dispatcher: req:1 'up' [cscotun0]: new request (1 scripts)
Jul  1 08:42:50 machine nm-dispatcher: req:1 'up' [cscotun0]: start running ordered scripts...
Jul  1 08:42:50 machine acvpnagent[1785]: Function: getDnsConfiguration File:
../../vpn/Common/Utility/NetInterface_unix.cpp Line: 1247 Unable to get domain list for
interface ens32.
Jul  1 08:42:50 machine acvpnagent[1785]: Function: getDnsConfiguration File:
../../vpn/Common/Utility/NetInterface_unix.cpp Line: 1247 Unable to get domain list for
interface cscotun0.
Jul  1 08:42:50 machine acvpnagent[1785]: Function: getDnsConfiguration File:
../../vpn/Common/Utility/NetInterface_unix.cpp Line: 1247 Unable to get domain list for
interface ens32.
Jul  1 08:42:50 machine acvpnagent[1785]: Function: getDnsConfiguration File:
../../vpn/Common/Utility/NetInterface_unix.cpp Line: 1247 Unable to get domain list for
interface ens32.
Jul  1 08:42:50 machine acvpnagent[1785]: Function: getDnsConfiguration File:
../../vpn/Common/Utility/NetInterface_unix.cpp Line: 1247 Unable to get domain list for
interface cscotun0.
Jul  1 08:42:50 machine NetworkManager[940]: <info>  [1561984970.6920] policy: set 'cscotun0'
(cscotun0) as default for IPv6 routing and DNS
Jul  1 08:42:51 machine acvpnagent[1785]: Function: getDnsConfiguration File:
../../vpn/Common/Utility/NetInterface_unix.cpp Line: 1247 Unable to get domain list for
interface ens32.
Jul  1 08:42:51 machine acvpnagent[1785]: Function: getDnsConfiguration File:
../../vpn/Common/Utility/NetInterface_unix.cpp Line: 1247 Unable to get domain list for
interface cscotun0.
Jul  1 08:42:51 machine acvpnagent[1785]: Function: getDnsConfiguration File:
../../vpn/Common/Utility/NetInterface_unix.cpp Line: 1247 Unable to get domain list for
interface ens32.
Jul  1 08:42:51 machine acvpnagent[1785]: Function: getDnsConfiguration File:
../../vpn/Common/Utility/NetInterface_unix.cpp Line: 1247 Unable to get domain list for
interface ens32.
Jul  1 08:42:51 machine systemd[1]: Reloading OpenBSD Secure Shell server.
Jul  1 08:42:51 machine systemd[1]: Reloaded OpenBSD Secure Shell server.
Jul  1 08:42:51 machine acvpnagent[1785]: Function: getDnsConfiguration File:
../../vpn/Common/Utility/NetInterface_unix.cpp Line: 1247 Unable to get domain list for
interface cscotun0.
Jul  1 08:42:52 machine acvpnagent[1785]: Function: applyFirewallConfiguration File:
../../vpn/AgentUtilities/HostConfigMgr.cpp Line: 1187 No Firewall Rules to configure
Jul  1 08:42:52 machine acvpnagent[1785]: The network control state changed to restricted.
Jul  1 08:42:52 machine acvpnui[11774]: Message type information sent to the user: Establishing
VPN...
Jul  1 08:42:52 machine acvpnui[11774]: Function: setSessionInfo File:
../../vpn/Api/VPNStatsBase.cpp Line: 1097 Invoked Function:
CSessionInfoTlv::GetAppliedSecureRouteCount Return Code: -32440304 (0xFE110010) Description:
TLV_ERROR_NO_ATTRIBUTE
Jul  1 08:42:52 machine acvpnui[11774]: Function: setSessionInfo File:
../../vpn/Api/VPNStatsBase.cpp Line: 1204 Invoked Function:
CSessionInfoTlv::GetAppliedNonsecureRouteCount Return Code: -32440304 (0xFE110010) Description:
TLV_ERROR_NO_ATTRIBUTE
Jul  1 08:42:52 machine acvpnui[11774]: VPN state: Connected Network state: Network Accessible
Network control state: Network Access: Restricted Network type: Undefined
Jul  1 08:42:52 machine acvpnui[11774]: Using default preferences. Some settings (e.g.
certificate matching) may not function as expected if a local profile is expected to be used.
```

Verify that the selected host is in the server list section of the profile and that the profile is configured on the secure gateway.
Jul 1 08:42:52 machine acvpnui[11774]: Function: getProfileNameFromHost File: ../../vpn/Api/ProfileMgr.cpp Line: 1250 No profile available for host bglanyconnect.cisco.com.
Jul 1 08:42:52 machine acvpnui[11774]: Function: getHostInitSettings File: ../../vpn/Api/ProfileMgr.cpp Line: 1334 Profile () not found. Using default settings.
Jul 1 08:42:52 machine acvpnui[11774]: Message type information sent to the user: Connected to bglanyconnect.cisco.com.
Jul 1 08:42:52 machine acvpnagent[1785]: Function: OnTunnelStateChange File: ../../vpn/Agent/TND.cpp Line: 2030 tunnel state change notification (new 1, old 0)
Jul 1 08:42:52 machine acvpnagent[1785]: The VPN connection has been established and can now pass data.
Jul 1 08:42:52 machine acvpnagent[1785]: The Primary DTLS connection to the secure gateway is being established.
Jul 1 08:42:52 machine acvpnagent[1785]: Function: OnTunnelStateChange File: ../../vpn/Agent/TND.cpp Line: 2030 tunnel state change notification (new 1, old 1)
Jul 1 08:42:52 machine acvpnagent[1785]: Function: initiateTransport File: ../../vpn/Agent/DtlsTunnelTransport.cpp Line: 238 Opened DTLS socket from [10.106.44.166]:35312 to [10.106.63.179]:443
Jul 1 08:42:52 machine acvpndownloader[13609]: Function: WaitForCompletion File: ../../vpn/Common/Utility/Thread.cpp Line: 311 The thread has successfully completed execution.
Jul 1 08:42:52 machine acvpndownloader[13609]: Cisco AnyConnect Secure Mobility Client Downloader (VPN) exiting, version 4.6.03049 , return code 0 [0x00000000]
Jul 1 08:42:52 machine acvpnagent[1785]: A routing table change notification has been received. Starting automatic correction of the routing table.
Jul 1 08:42:52 machine acvpnagent[1785]: Automatic correction of the routing table has been successful.
Jul 1 08:42:52 machine acvpnagent[1785]: Function: OnIpcMessageReceived File: ../../vpn/Common/IPC/IPCDepot.cpp Line: 1115 Invoked Function: CIpcTransport::OnSocketReadComplete Return Code: -33292279 (0xFE040009) Description: IPCTRANSPORT_ERROR_UNEXPECTED
Jul 1 08:42:52 machine acvpnagent[1785]: Function: writeSocketBlocking File: ../../vpn/Common/IPC/UdpTcpTransports_unix.cpp Line: 429 Invoked Function: ::write Return Code: 32 (0x00000020) Description: unknown
Jul 1 08:42:52 machine acvpnagent[1785]: Function: terminateIpcConnection File: ../../vpn/Common/IPC/IPCTransport.cpp Line: 459 Invoked Function: CSocketTransport::writeSocketBlocking Return Code: -31588341 (0xFE1E000B) Description: SOCKETTRANSPORT_ERROR_WRITE
Jul 1 08:42:52 machine acvpnagent[1785]: A DTLS connection has been established using cipher DHE-RSA-AES256-SHA
Jul 1 08:42:52 machine acvpnagent[1785]: The Primary DTLS connection to the secure gateway has been established.
Jul 1 08:42:52 machine acvpnui[11774]: Function: launchCachedDownloader File: ../../vpn/Api/ConnectMgr.cpp Line: 8274 Invoked Function: ConnectMgr::launchCachedDownloader Return Code: 0 (0x00000000) Description: Cached Downloader terminated normally
Jul 1 08:42:52 machine acvpnui[11774]: Using default preferences. Some settings (e.g. certificate matching) may not function as expected if a local profile is expected to be used. Verify that the selected host is in the server list section of the profile and that the profile is configured on the secure gateway.
Jul 1 08:42:52 machine acvpnui[11774]: Function: getProfileNameFromHost File: ../../vpn/Api/ProfileMgr.cpp Line: 1250 No profile available for host bglanyconnect.cisco.com.
Jul 1 08:42:52 machine acvpnui[11774]: message repeated 2 times: [Function: getProfileNameFromHost File: ../../vpn/Api/ProfileMgr.cpp Line: 1250 No profile available for host bglanyconnect.cisco.com.]
Jul 1 08:42:52 machine acvpnui[11774]: Function: reloadPreferencesAfterUpdates File: ../../vpn/Api/ConnectMgr.cpp Line: 10859 Secure gateway (bglanyconnect.cisco.com) was not found in profile .
Jul 1 08:42:52 machine acvpnui[11774]: Function: getProfileNameFromHost File: ../../vpn/Api/ProfileMgr.cpp Line: 1250 No profile available for host bglanyconnect.cisco.com.
Jul 1 08:42:52 machine acvpnui[11774]: Function: getHostInitSettings File: ../../vpn/Api/ProfileMgr.cpp Line: 1334 Profile () not found. Using default settings.
Jul 1 08:42:52 machine acvpnui[11774]: Function: getProfileNameFromHost File: ../../vpn/Api/ProfileMgr.cpp Line: 1250 No profile available for host bglanyconnect.cisco.com.
Jul 1 08:42:52 machine acvpnui[11774]: Function: getHostInitSettings File:

```
../../vpn/Api/ProfileMgr.cpp Line: 1334 Profile () not found. Using default settings.
Jul  1 08:42:52 machine acvpnui[11774]: VPN state: Connected Network state: Network Accessible
Network control state: Network Access: Restricted Network type: Undefined
Jul  1 08:42:52 machine acvpnagent[1785]: Function: OnTunnelStateChange File:
../../vpn/Agent/TND.cpp Line: 2030 tunnel state change notification (new 1, old 1)
Jul  1 08:42:53 machine systemd[1]: Reloading OpenBSD Secure Shell server.
Jul  1 08:42:53 machine systemd[1]: Reloaded OpenBSD Secure Shell server.
Jul  1 08:42:53 machine acvpnui[11774]: Message type information sent to the user: Connected to
bglanyconnect.cisco.com.
```

- DART (diagnostic et outil de génération de rapports) sur le client Linux

  Semblable à Windows et Mac, le client Linux a également la fonctionnalité de DART. Ceci peut être utilisé l'un ou l'autre de GUI et de CLI de utilisation.
  Veuillez noter que le DART doit être exécuté en tant qu'utilisateur d'admin afin de collecter complet ouvre une session un client Linux.

  Étape 1. Le DART peut être exécuté de la ligne de commande en naviguant vers le chemin suivant :

```
tactest:bin$ cd /opt/cisco/anyconnect/dart
tactest:dart$ ls
anyconnect-linux64-4.6.03049-dart-webdeploy-k9-20190627095410.log  dartui     xml
dartcli                                                            resources
tactest:dart$ ./dartcli

Cisco AnyConnect Diagnostic and Reporting Tool 4.6.03049 .

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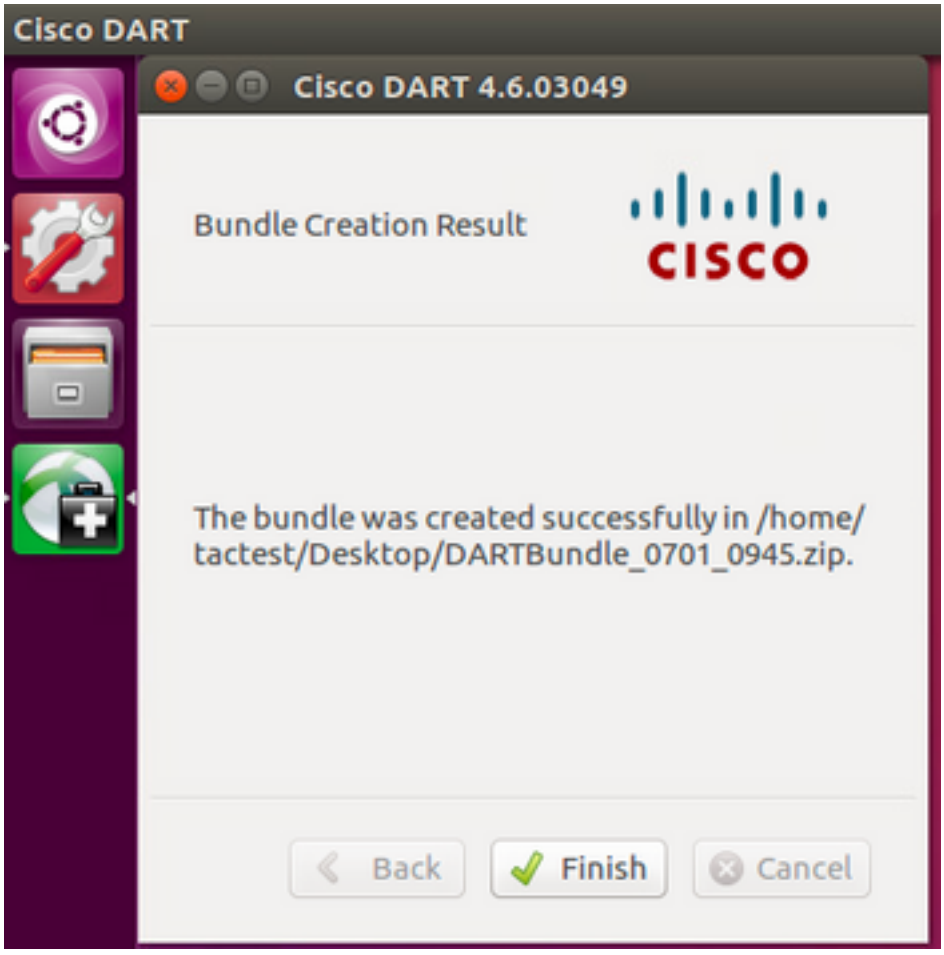
Bundle option selected: default
Bundle location: /home/tactest/Desktop/DARTBundle_0701_0933.zip

Parsing request and configuration XMLs...            1%iptables v1.6.0: can't initialize
iptables table `filter': Permission denied (you must be root)
Perhaps iptables or your kernel needs to be upgraded.
ip6tables v1.6.0: can't initialize ip6tables table `filter': Permission denied (you must be
root)
Perhaps ip6tables or your kernel needs to be upgraded.
Processing Posture application logs...              76%sh: 1:
/home/tactest/.cisco/hostscan/lib/wadiagnose: not found
sh: 1: /opt/cisco/hostscan/lib/wadiagnose: not found
DART has finished...                                100%
```

  Étape 2. Pour exécuter le DART du GUI, rechercher le « anyconnect » sur le GUI de Linux et cliquer sur en fonction Cisco DARDEZ et suivez les instructions. Le paquet collecté de DART est enregistré sur l'appareil de bureau.



Étape 3. Pour copier le paquet de DART du client Linux sur votre poste de travail, utilisez la commande

scp username@10.106.44.166:/home/<username>/Desktop/DARTBundle_0701_0945.zip /Users/dmoudgil/Desktop/Ubuntu/
Voici un document pour la référence au DART sur le SYSTÈME D'EXPLOITATION différent : https://community.cisco.com/t5/security-documents/how-to-collect-the-dart-bundle-for-anyconnect/ta-p/3156025

- En cas de toutes les questions inconnues, vpnclient peut être redémarré par l'intermédiaire de la ligne de commande

```
tactest:bin$ sudo /etc/init.d/vpnagentd restart
[sudo] password for tactest:
[ ok ] Restarting vpnagentd (via systemctl): vpnagentd.service.
tactest:bin$
```