# AnyConnect Web Security-Bereitstellung durch ASA

### Inhalt

Einführung Voraussetzungen Anforderungen Verwendete Komponenten Hintergrundinformationen Konfigurieren AnyConnect WebSecurity-Bereitstellung durch ASA Überprüfen Upgrade/Downgrade der AnyConnect-Version Fehlerbehebung

## Einführung

In diesem Dokument wird die Bereitstellung von AnyConnect-Websicherheitsmodul für Clientbasierte VPN-Terminierung auf Cisco Adaptive Security Appliances (ASA) beschrieben.

## Voraussetzungen

#### Anforderungen

Für dieses Dokument bestehen keine speziellen Anforderungen.

#### Verwendete Komponenten

Dieses Dokument ist nicht auf bestimmte Software- und Hardwareversionen beschränkt.

Die Informationen in diesem Dokument wurden von den Geräten in einer bestimmten Laborumgebung erstellt. Alle in diesem Dokument verwendeten Geräte haben mit einer leeren (Standard-)Konfiguration begonnen. Wenn Ihr Netzwerk in Betrieb ist, stellen Sie sicher, dass Sie die potenziellen Auswirkungen eines Befehls verstehen.

#### Hintergrundinformationen

• Laden Sie das AnyConnect-Image (Empfohlen v4.1+) auf ASA hoch.



Aktivieren Sie das VPN-Profil auf ASA, wie im Bild gezeigt

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#### Konfigurieren

#### AnyConnect WebSecurity-Bereitstellung durch ASA

Die Konfiguration umfasst folgende Schritte:

- Konfigurieren des AnyConnect-Websicherheits-Clientprofils
- AnyConnect VPN-Gruppenrichtlinie bearbeiten
- Legen Sie einen geteilten Ausschluss für Web Security fest, und wählen Sie Web Security-Client-Modul herunterladen aus.
- Bearbeiten der AnyConnect VPN-Gruppenrichtlinie und Auswählen des Websicherheits-Clientprofils

#### Schritt 1: Konfigurieren des AnyConnect Websecurity Client-Profils

Navigieren Sie zu Konfiguration >Access VPN entfernen >Network (Client) Access >AnyConnect

Fügen Sie das AnyConnect Web Security Client-Profil hinzu, und wählen Sie es aus.

**Hinweis**: Der Profilname ist auf Clientseite fest codiert. Unabhängig vom konfigurierten Namen leitet die ASA daher immer **Websecurity\_serviceprofile.wso** an den Client weiter.

Hinweis: Dies ist ein Standardprofil ohne Authentifizierungslizenzschlüssel.

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Schritt 2: Bearbeiten Sie das neu erstellte Profil, um den Authentifizierungslizenzschlüssel hinzuzufügen und die Konfiguration anzupassen.

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## Schritt 3: Legen Sie einen geteilten Ausschluss für Web Security fest, und wählen Sie Web Security Client-Modul herunterladen aus.

Bearbeiten Sie die AnyConnect VPN-Gruppenrichtlinie, wie im Bild gezeigt.



Richten Sie, wie im Bild gezeigt, eine getrennte Ausgrenzung für Web Security ein.

| 3   |   |                    | Edit Internal Group Policy: DfltGrpPolicy   |
|---|---|--------------------|---|
| General<br>Servers  | The VPN dient makes split tunneling decisi  | ions on the bas    | is of a network list that can be specified below by providing the proper parameters to 'Policy  |
| ⊡…Advanced<br><mark>Split Tunneling</mark><br>Browser Proxy | DNS Names:<br>Send All DNS Lookups Through Tunnel:                                      | ⊖Yes ⊚ i           | lo  |
| ia - AnyConnect Client<br>ia - IPsec(IKEv1) Client          | Policy:   | Exclude Netw       | ork List Below  |
|   | Network List:   | None               | ork List Below  |
|   | Pressing this button to set up split exlusio<br>Set up Split Exclusion for Web Security | n for Web Sea<br>/ | Tity proxies. Web Security Proxies Exclusion  |
|   | Intercept DHCP Configuration Message  | from Microsoft     | Enter a new or select an existing access list used for Web Security split<br>exclusion. ASDM will set up the access list for use in the network list.<br>Access list name: CWS-Tower Select |
|   |   |                    | Create Access List Update Access List Cancel  |

| 6  |  | Edit Internal Group Policy: DfltGrpPolicy  |
|--|--|--|
| General<br>Servers<br>Advanced<br>Browser Proxy<br>AnyConnect Client<br>TPsec(IKEv 1) Client | The VPN dient makes split tunneling decident DNS Names:<br>Send All DNS Lookups Through Tunnel:<br>Policy:<br>IPv6 Policy:<br>Network List:<br>Pressing this button to set up split exlusion<br>Set up Split Exclusion for Web Securit | sions on the basis of a network list that can be specified below by providing the proper par<br>Yes  No<br>Exclude Network List Below<br>Exclude Network List Below<br>CWS-Tower<br>on for Web Security proxies.<br>ty |

Wählen Sie Web Security-Clientmodul herunterladen aus, wie im Bild gezeigt.

Schritt 4: Websicherheits-Clientprofil herunterladen

AnyConnect-VPN-Gruppenrichtlinie bearbeiten > Zu Download bereitzustellende Clientprofile > Hinzufügen, wählen Sie jetzt das erstellte Profil aus (wie in Schritt 1)

| General                             | Keep Installer on Client System:          | Yes      No                               |  |
|-------------------------------------|---|---|--|
| Servers                             |   |   |  |
| Advanced                            | Datagram Transport Layer Security (DTLS): | Enable Olisal                             | ole de la constante de la const        |
| Split Tunneling                     | DTLS Compression:                         | Enable     Disal                          | de   |
| Browser Proxy                       | oneo compression.                         |   | n-   |
| Login Setting                       | SSL Compression:                          | ○ Deflate ○ LZS                           | <ul> <li>Disable</li> </ul>  |
| Client Firewall<br>Key Regeneration | Ignore Don't Fragment(DF) Bit:            | <ul> <li>Enable</li> <li>Disal</li> </ul> | de   |
| Dead Peer Detection                 | Client Bypass Protocol:                   | <ul> <li>Enable</li> <li>Disal</li> </ul> | de   |
| Custom Attributes                   | FQDN of This Device:                      |   |  |
|                                     | MTU:                                      | 1406                                      |  |
|                                     | Keepalive Messages:                       | Disable Interval                          | Select AnyConnect Client Profiles  |
|                                     | Optional Client Modules to Download:      | websecurity                               | This panel is used to select existing AnyConnect profile for a group policy. To create or edit a profile, go to Remote |
|                                     | Always-On VPN:                            | 🔿 Disable 💿 Use i                         | Access VPN>Network (Client) Access>AnyConnect Client Profile.  |
|                                     | direct Des files to Describe to           |   | Select a profile name and the usage will be determined automatically. The 'View Profile' button will open the profile  |
|                                     | Client Profiles to Download:              |   | viewer (no editing) if the AnyConnect 2.5 client or later is installed and if the profile usage is determined.         |
|                                     |   | Add Toelete                               | Otherwise, it will show the profile content as XML text.   |
|                                     |   | Drofile Name                              |  |
|                                     |   | Profile Name                              | Profile Name: demo View Profile  |
|                                     |   |   | Desfie Langer Web Sep with Sep vice Desfie   |
|                                     |   |   | Prolie usage: Web security service Prolie  |
|                                     |   |   |  |
|                                     |   |   |  |
|                                     |   |   |  |
|                                     |   |   |  |
|                                     |   |   |  |
|                                     |   |   |  |
|                                     |   |   |  |
|                                     |   |   |  |
|                                     |   |   | OK Cancel Help   |
|                                     |   |   |  |
| / III )                             |   |   |  |
|                                     |   |   |  |
| Find:                               | 🔘 Next 🔘 Previou:                         | s   |  |
|                                     |   |   |  |
|                                     |   |   | OK Cancel Help   |
|                                     |   |   |  |

Klicken Sie auf OK, und übernehmen Sie die Änderungen.

## Überprüfen

Wenn Sie eine Verbindung mit AnyConnect VPN herstellen, leitet ASA das AnyConnect-Websicherheitsmodul über VPN weiter, wie im Bild gezeigt.

| S Cisco AnyConnect   10.106.36.30 | S Cisco AnyConnect Secure Mobility Client - □ ×                                 |
|-----------------------------------|---|
| Username: user1 Password: ******* | VPN:           Contacting 10.106.36.30.           10.106.36.30         VConnect |
| OK Cancel                         | Cisco   |

| 9  | Cisco AnyConnect Secure Mobility Client   | - 🗆 🗙       |
|--|---|-------------|
| cisco AnyConnec  | t Secure Mobility Client  | 0           |
| Status Overview  | Virtual Private Network (VPN)   | Diagnostics |
| VPN >  | Preferences Statistics Route Details Firewall Message History   |             |
| Web Security   | <ul> <li>5:21:58 AM Disconnect in progress, please wait</li> <li>5:21:59 AM Ready to connect.</li> <li>5:29:69 AM Contacting 10.106.36.30.</li> <li>5:29:53 AM User credentials entered.</li> <li>5:29:53 AM Establishing VPN session</li> <li>5:29:53 AM The AnyConnect Downloader is performing update checks</li> <li>5:29:54 AM Downloading Web Security Service Profile - 100%</li> <li>5:29:54 AM Downloading for product updates</li> <li>5:29:54 AM Downloading AnyConnect Web Security 4.1.08005 - 100%</li> <li>5:29:54 AM Downloading anyConnect Web Security 4.1.08005 - 100%</li> <li>5:29:54 AM Downloading any required updates</li> <li>5:29:54 AM Performing any required updates</li> <li>5:29:58 AM The AnyConnect Downloader updates have been completed.</li> <li>5:30:02 AM Establishing VPN - Initiating connection</li> <li>5:30:02 AM Establishing VPN - Activating VPN adapter</li> <li>5:30:03 AM Establishing VPN - Configuring system</li> <li>5:30:03 AM Establishing VPN</li> <li>5:30:03 AM Establishing VPN</li> </ul> | ^           |
| Collect diagnostic information for all installed components. Diagnostics |   | Clear       |



Wenn Sie bereits angemeldet sind, empfiehlt es sich, sich abzumelden und sich dann wieder anzumelden, damit die Funktion aktiviert werden kann.

#### Upgrade/Downgrade der AnyConnect-Version

Die Bereitstellungsfunktionalität bleibt unverändert, wenn die Version aktualisiert wird. Ein Downgrade ist jedoch nicht möglich. So kann mit dem aktuellen Beispiel von 4.1.x ein Upgrade auf Version 4.2 durchgeführt werden.

Es handelt sich um folgende Schritte:

Schritt 1: Laden Sie das neueste AnyConnect-Paket 4.2 zum Flash-Speicher hoch, und ersetzen Sie 4.1 durch die neueste Datei.

Wählen Sie unter AnyConnect Client Software > Replace die aktuelle Bilddatei aus.

| File View Tools Wizards Window Help   |   | Type topic  |
|---|---|---|
| Home 🍪 Configuration 🔯 Monitoring 🗐 Sav   | Refresh Sack Sorward Protocol   |   |
| Remote Access VPN 🗗 🖓   | Configuration > Remote Access VPN > Network (Client) Access > AnyCo   | onnect Client Software                                |
| Introduction     Introduction     AnyConnect Connection Profiles     AnyConnect Customization/Localization     AnyConnect Client Profile     AnyConnect Client Software     Dynamic Access Policies | AnyConnect Client Images<br>Cisco AnyConnect Client packages can be downloaded from the Cisco Web using<br>to match the user-agent of a browser to an image.<br>You can also minimize connection setup time by moving the image used by the mo<br>Add CREPIACE Delete Delete Delete | the search string 'AnyConnoist commonly encountered o |
| Group Policies  | Image   | Regular expression                                    |
| IPsec(IKEv1) Connection Profiles  | disk0:/anyconnect-win-4.1.08005-k9.pkg  |   |
| Address Assignment     Advanced   | C Replace AnyConnect Client Image   | x   |
| AAA/Local Users   | AnyConnect Image: disk0:/anyconnect-win-4.2.01035-k9.pkg  | Browse Flash  |
| E 🔏 Secure Desktop Manager  |   | Upload  |
| 🖅 🔂 Certificate Management  | Regular expression to match user-agent  | ×   |
| Language Localization     Load Balancing     DHCP Server     DNS  | OK Cancel Help  |   |

Schritt 2: Wenn Sie erneut eine Verbindung mit AnyConnect VPN herstellen, leitet ASA das neueste AnyConnect-Modul über VPN weiter, ohne dass Änderungen am Web-Sicherheitsprofil erforderlich sind.

| S Cisco A    | nyConnect Secure Mobility Client – 🗆 🛛 🗡                        |
|--------------|---|
|              | VPN:<br>Exiting. Upgrade in progress.<br>10.106.36.30 ∨ Connect |
|              | Web Security:<br>Enabled (India)                                |
|              |   |
| <b>\$</b> () | uhaha<br>cisco  |



Hinweis: Downgrade wird nicht unterstützt.

#### Fehlerbehebung

Dieser Abschnitt enthält Informationen, die Sie zur Fehlerbehebung bei Ihrer Konfiguration verwenden können.

Verwenden von DART zum Sammeln von Informationen zur Fehlerbehebung:

DART ist das AnyConnect Diagnostics and Reporting Tool, mit dem Sie Daten sammeln können, die zur Behebung von Installations- und Verbindungsproblemen bei AnyConnect nützlich sind. DART unterstützt Windows 7, Windows Vista, Windows XP, Mac Version 10.5 und 10.6 sowie Linux Redhat. Der DART-Assistent wird auf dem Computer ausgeführt, auf dem AnyConnect ausgeführt wird. Die Protokolle, der Status und die Diagnoseinformationen für die Analyse des Cisco Technical Assistance Center (TAC) werden zusammengestellt. Administratorberechtigungen sind nicht erforderlich.

DART verwendet zwar keine Komponente der AnyConnect-Software, kann jedoch über AnyConnect gestartet werden, doch die Protokolldatei von AnyConnect wird erfasst, sofern sie verfügbar ist. Derzeit ist DART als eigenständige Installation erhältlich. Alternativ kann der Administrator diese Anwendung als Teil der dynamischen Download-Infrastruktur von AnyConnect auf den Client-PC übertragen. Nach der Installation kann der Endbenutzer den Assistenten im Cisco Ordner starten, der über die **Start-**Schaltfläche verfügbar ist.