ASA を介した AnyConnect Web セキュリティの 導入

内容

概要 <u>前提条件</u> <u>要件</u> 使用するコンポーネント 背景説明 設定 ASA を通じた AnyConnect Web セキュリティの導入 確認 Anyconnect バージョンのアップグレード/ダウングレード トラブルシュート

概要

このドキュメントでは、Cisco 適応型セキュリティ アプライアンス(ASA)で終端するクライア ント ベースの VPN への AnyConnect Web セキュリティ モジュールの導入について説明します。

前提条件

要件

このドキュメントに特有の要件はありません。

使用するコンポーネント

このドキュメントの内容は、特定のソフトウェアやハードウェアのバージョンに限定されるもの ではありません。

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このド キュメントで使用するすべてのデバイスは、初期(デフォルト)設定の状態から起動しています 。対象のネットワークが実稼働中である場合には、どのようなコマンドについても、その潜在的 な影響について確実に理解しておく必要があります。

背景説明

• ASA で AnyConnect (v4.1+ を推奨) イメージをアップロードします



• 図に示すように、ASA で VPN プロファイルを有効にします

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設定

ASA を通じた AnyConnect Web セキュリティの導入

設定に含まれる手順は次のとおりです。

- Anyconnect Web セキュリティ クライアント プロファイルを設定する
- Anyconnect VPN グループ ポリシーを編集する
- Web セキュリティのスプリット除外を設定し、Web セキュリティ クライアント モジュールのダウンロードを選択する
- Anyconnect VPN グループ ポリシーを編集し、Web セキュリティ クライアント プロファイ ルを選択する
- 手順1: Anyconnect Web セキュリティ クライアント プロファイルを設定する

[Configuration] > [Remove Access VPN] > [Network (Client) Access] > [Anyconnect Client Profile]

を選択します。

[Add] をクリックし、[AnyConnect Web Security Client Profile] を選択します。

注: クライアント側の Profile Name はハードコードされているため、設定した名前に関係 なく、ASA は常に Websecurity_serviceprofile.wso をクライアントにプッシュします。

注:これは、認証ライセンス キーのないデフォルト プロファイルです。

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手順 2 : 新しく作成したプロファイルを編集し、認証ライセンス キーを追加し、設定をカスタマ イズする。

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手順 3:Web セキュリティのスプリット除外を設定し、Web セキュリティ クライアント モジュ ールのダウンロードを選択する

図に示すように、Anyconnect VPN グループ ポリシーを編集します。



図に示すように、Web セキュリティのスプリット除外を設定します。

1			Edit Internal Group Policy: DfltGrpPolicy		
General	The VPN dient makes split tunneling decis	ions on the basis	of a network list that can be specified below by providing the proper parameters to 'Policy		
	DNS Names: Send All DNS Lookups Through Tunnel:	⊖ Yes (● No	5		
⊡⊡IPsec(IKEv1) Client	Policy:	Exclude Netwo	rk List Below		
	IPv6 Policy:	Exclude Netwo	rk List Below		
	Network List:	None			
	Pressing this button to set up split exlusion Set up Split Exclusion for Web Securit Intercept DHCP Configuration Message	on for Web Secur y from Microsoft (ity proxies. Web Security Proxies Exclusion X Enter a new or select an existing access list used for Web Security split exclusion. ASDM will set up the access list for use in the network list. Image: Comparison of the access list for use in the network list.		
			Access list name: CWS-Tower Select Create Access List Update Access List Cancel		

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

図に示すように、Web セキュリティ クライアント モジュールのダウンロードを選択します。

手順 4:Web セキュリティ クライアント プロファイルをダウンロードする

[Anyconnect VPN group policy] > [Client Profiles to Download] > [Add] を編集し、(手順1で)作 成したプロファイルを選択します

General	Keep Installer on Client System:	● Yes ○ No	
Servers	Datagram Transport Lawer Cogurity (DTLC)		de la constante
Solit Tunneling	Datagrain fransport Layer Security (DTLS).		м с
Browser Proxy	DTLS Compression:	Enable O Disab	le
AnyConnect Client	SSL Compression:	○ Deflate ○ LZS	Disable
Client Firewall Key Regeneration	Ignore Don't Fragment(DF) Bit:	 Enable Disable 	de
Dead Peer Detectio	Client Bypass Protocol:	 Enable Disat 	ale
Customization Custom Attributes	FQDN of This Device:		
⊞ IPsec(IKEv1) Client	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 	Access very neuroix (client, Access 24) you line client Prome.
	Client Profiles to Download:		Select a profile name and the usage will be determined automatically. The View Profile' button will open the profile
		🖨 Add 📋 Delete	viewer (no editing) if the AnyConnect 2.5 client or later is installed and if the profile usage is determined. Otherwise, it will show the profile content as XML text.
		Profile Name	Profile Name: Homo
			Profile Usage: Web Security Service Profile
			OK Cancel Help
< III >			
Find:	Next Previous	s	
			OK Cancel Help

[OK] をクリックし、変更を適用します。

確認

Anyconnect VPN に接続すると、図に示すように、ASA は VPN 経由で、Anyconnect Web セキュ リティ モジュールをプッシュします。

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	 5:21:58 AM Disconnect in progress, please wait 5:21:59 AM Ready to connect. 5:29:69 AM Contacting 10.106.36.30. 5:29:53 AM User credentials entered. 5:29:53 AM Establishing VPN session 5:29:53 AM The AnyConnect Downloader is performing update checks 5:29:54 AM Downloading Web Security Service Profile - 100% 5:29:54 AM Downloading for product updates 5:29:54 AM Downloading AnyConnect Web Security 4.1.08005 - 100% 5:29:54 AM Downloading anyConnect Web Security 4.1.08005 - 100% 5:29:54 AM Downloading any required updates 5:29:54 AM Performing any required updates 5:29:58 AM The AnyConnect Downloader updates have been completed. 5:30:02 AM Establishing VPN - Initiating connection 5:30:02 AM Establishing VPN - Activating VPN adapter 5:30:03 AM Establishing VPN - Configuring system 5:30:03 AM Establishing VPN 5:30:03 AM Establishing VPN 	^
Collect diagnostic information for all installed components. Diagnostics		Clear

Cisco A	nyConnect Secure Mobility Clie	ent – 🗆 🗙
	VPN: Connected to 10.106.36.30.	
00:00:14	10.106.36.30	Disconnect IPv4
	Web Security: Enabled (India)	
\$ ()		altata cisco

すでにログインしている場合、この機能が有効になるよう、ログオフして、ログインすることを 推奨します。

Anyconnect バージョンのアップグレード/ダウングレード

バージョンがアップグレードされた場合、導入機能は変更ありません。ただしダウングレードす ることはできません。したがって、4.1.x の現在の例では、バージョン 4.2 にアップグレードでき ます

含まれる手順は次のとおりです。

手順 1 : 最新の Anyconnect パッケージ 4.2 をフラッシュにアップロードし、4.1 を最新のファイ ルで置き換える。

[Anyconnect Client Software] > [Replace] で最新のイメージ ファイルを選択します。

File View Tools Wizards Window Help					Type topic
Home 🍪 Configuration 🔯 Monitoring 🗐 Sav	e 💽 F	lefresh	Back 🕐 Forward 🦻 Help		
Remote Access VPN 🗗 🖓	<u>Confi</u>	guration >	Remote Access VPN > Network (Client) Access >	AnyConnect	Client Software
Introduction Introduction AnyConnect Connection Profiles AnyConnect Customization/Localization AnyConnect Client Profile AnyConnect Client Software Dynamic Access Policies	AnyCo Cisc to n You	onnect Client to AnyConner thatch the use can also min Add C Re	Images ct Client packages can be downloaded from the Cisco We r-agent of a browser to an image. imize connection setup time by moving the image used by eplace Delete	b using the sea the most comm	irch string 'AnyConn nonly encountered o
Group Policies	Im	age			Regular expression
Secure Mobility Solution	dis	k0:/anyconne	ect-win-4.1.08005-k9.pkg		
Address Assignment Advanced		E	Replace AnyConnect Client Im	nage	×
Clientless SSL VPN Access		AnyConr	nect Image: disk0:/anyconnect-win-4.2.01035-k9.pkg	Bro	wse Flash
Host Scan Image				L	Upload
Certificate Management		Regular	r expression to match user-agent		¥
Load Balancing DHCP Server DNS			OK Cancel He	lp	
1 📇 📇					

ステップ2:Anyconnect VPN に再接続した際、Web セキュリティ プロファイルは変更されず、 ASA が VPN 経由で最新の Anyconnect モジュールをプッシュする。

🕥 Cisco Ai	nyConnect Secure Mobility Client 🛛 – 🗖 🛛 🗡	
	VPN: Exiting. Upgrade in progress. 10.106.36.30 ∨ Connect	
	Web Security: Enabled (India)	
Ö (i)	and a state of the	



注:ダウングレードはサポートされません。

トラブルシュート

ここでは、設定のトラブルシューティングに使用できる情報を示します。

DARTを使用したトラブルシューティング情報の収集:

DART は AnyConnect Diagnostics and Reporting Tool の略で、AnyConnect のインストールと接続に関する問題のトラブルシューティングに役立つデータの収集に使用できます。DART は、 Windows 7、Windows Vista、Windows XP、Mac バージョン 10.5 と 10.6、および Linux Redhat をサポートします。DART ウィザードは、AnyConnect を実行するコンピュータ上で実行されま す。これによってログ、ステータス、および診断情報が収集され、それを Cisco Technical Assistance Center (TAC) での分析に使用でき、管理者権限は不要です。

DART は、AnyConnect ソフトウェアのコンポーネントに依存せずに機能しますが、AnyConnect から起動可能で、AnyConnect ログ ファイル(存在する場合)の収集を行います。現在のところ 、DART はスタンドアロン インストールを実行できます。または、管理者は AnyConnect ダイナ ミック ダウンロード インフラストラクチャの一部として、このアプリケーションをクライアント PC にプッシュできます。インストールしたら、[Start] ボタンを通して、Cisco フォルダからウィ ザードを起動できます。