Security Manager configureren in Cisco IOS IPS

Inhoud

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Inleiding

Cisco Security Manager maakt deel uit van Cisco Security Management Suite, dat uitgebreid beleidsbeheer en -handhaving biedt voor het Cisco Zelfverdedigend Network. Cisco Security Manager is een toonaangevende toepassing op bedrijfsniveau voor het beheer van de beveiliging. Cisco Security Manager richt op configuratiebeheer van firewall, VPN en IPS (Inbraakpreventiesysteem) security services voor Cisco routers, security apparaten en beveiligingsservicesmodules.

Voor een samenvatting van de functies en voordelen van Cisco Security Manager, evenals de nieuwe functies in versie 3.1, raadpleegt u het Cisco Security Manager 3.1 gegevensblad op http://www.cisco.com/en/US/prod/collateral/vpndevc/ps5739/ps6498/product_data_sheet0900aecd_8062bf6e.html. U kunt Cisco Security Manager 3.1 downloaden van Cisco.com op http://www.cisco.com/cgi-bin/tablebuild.pl/csm-app (alleen geregistreerde klanten).

Dit document beschrijft hoe u Cisco Security Manager 3.1 kunt gebruiken om initiële configuratie van IOS IPS uit te voeren. Voor routers die al met IOS IPS zijn ingesteld, kunnen klanten Cisco Security Manager 3.1 rechtstreeks gebruiken voor provisioningtaken.

Opmerking: Cisco Security Manager 3.1 ondersteunt alleen IOS 12.4(11)T2 en later IOSafbeeldingen om IOS IPS te configureren.

Voorwaarden

Vereisten

Er zijn geen specifieke vereisten van toepassing op dit document.

Gebruikte componenten

De informatie in dit document is gebaseerd op de volgende software- en hardware-versies:

- Cisco Security Manager 3.1
- Cisco IOS-softwarerelease 12.4(11)T2

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk live is, moet u de potentiële impact van elke opdracht begrijpen.

Conventies

Raadpleeg de Cisco Technical Tips Convention voor meer informatie over documentconventies.

Configureren

Voltooi deze stappen om IOS IPS te configureren:

- 1. Start de Cisco Security Manager 3.1 client op uw lokale pc.
- 2. Kies **Nieuw apparaat** in het menu Bestand om een apparaat aan Cisco Security Manager 3.1 toe te



 Kies in het venster Nieuw apparaat hoe u het apparaat wilt toevoegen. Dit voorbeeld voegt het apparaat van het netwerk toe.

w Device - Choose Method (Step 1 of)			
Please choose how you would like to add the device:			
Add Device From Network			
When you add a device that is live on the network, Cisco : connection with the device and discovers its identifying inf	Security Manager makes a secure ormation and properties.		
Add from Configuration File		3	
When you add a device using its configuration file, Cisco 5 device's identifying information, properties and policies fro	iecurity Manager discovers the m the file.	Ĩ	
Add New Device			(
You can add a device that is not yet on the network by sp information and credentials.	ecifying the device's identifying	4	Ĺ
Add Device From DCR		,	
If you are using other CiscoWorks applications and your d the device credentials repository, you can import them int	evices have already been added to o Cisco Security Manager.		
	Rack Next	Finish Cance	Heip

- 4. Klik op Volgende.
- 5. Voer de identiteitsgegevens in voor het apparaat dat u wilt toevoegen. Bijvoorbeeld, naam van de gastheer en IP adres.

Identity		
IP Type:	Static 💌	
Host Name:		
Domain Name:		
IP Address:	172.25.90.91	
Display Name:*	172.25.90.91	
OS Type:*	v	
	105-12.3+	
	105 - Catalyst 6500/7600	
Discover Device Se	stting PIX	
Discover:	IP5	
	ASA	
	Pirewall Policies	
	DPS Policies	
	RA VPN Policies	
	Discover Policies for Security Contexts	

- 6. Klik op Volgende.
- 7. Voer de primaire geloofsbrieven in, zoals gebruikersnaam, wachtwoord, Wachtwoord voor de IOS router in die u wilt toevoegen.
- 8. Klik op **Voltooien** om het apparaat aan Cisco Security Manager toe te voegen.**Opmerking:** Dit voorbeeld veronderstelt dat de gebruiker reeds een vooraf ingestelde router heeft en aan de router met de juiste geloofsbrieven kan inloggen.

Primary Credentials	risen1234			
Damword:*	[********	Coolim.*		
P doomului		Corrent.		
Enable Password:	I	Confirm:	1	
HTTP Credentials				
	Use Primary Credentials			
	Username:			
	Password:			
	Confirm:			
HTTP Port:	90			
HTTPS Port:	443			
IPS RDEP Mode:	HTTPS 👻			
Certificate Common Name:	[Confirm:	[
RX-Boot Mode	SMMP			

Wanneer "Discovery fied" in het venster Discovery Status verschijnt, hebt u met succes een apparaat aan Cisco Security Manager toegevoegd. Zodra u een apparaat aan Cisco Security Manager hebt toegevoegd, moet u een openbare sleutel toewijzen om IPS mogelijk te maken.

Status: Discovery completed with warnings Devices discovered: 1 Devices discovered successfully: 1 Devices discovered with errors: 0 Discovery Details Discovery Details Type Name Severity Obscovery Details Discovery Completed with Warnings Discovered From Interfaces wide open for traffic Image: Severity Description Interfaces wide open for traffic Image: Severity The following interfaces are wide open for traffic as there is no ACL applied on them. Policies discovered Image: Severity The following interfaces are wide open for traffic as there will no longer be such ingo an erw Access means that there will no longer be such ingo an erw Access means that there will no longer be such ingo an erw Access means that there will no longer be such ingo an erw Access means that there will no longer be such ingo an erw Access means that there will no longer be such ingo an erw Access means that there will no longer be such ingo an erw Access means that there will no longer be such ingo an erw Access means that there will no longer be such ingo an erw Access means that there will no longer be such ingo an erw Access means that there will no longer be such ingo an erw Access means that there will no longer be such ingo an erw Access means that there will no longer be such ingo an erw Access of the an erw and the analysis of the file anymore:	Construction Discovery completed with warnings o be discovered: 1 Iscovered successfully: 1 Iscovered with errors: 0 y Details	COVIS Status: Discovery completed with warnin Devices to be discovered: 1 Devices discovered successfully: 1 Devices discovered with errors: 0 Discovery Details Type Type Name	A2
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- 9. Blader in het menu links naar het configuratiescherm FlexConfiguration.
- 10. Klik op de FlexConfiguration-gebruikersinterface aan de rechterkant van het scherm en klik vervolgens op het pictogram

Add.

Cisco Security Manager - admin	Connected to '172.25.90.8'		
se for new Forch Heb Toos	Reb		
	-3 7		
Devikes 🛃 🔂	Device: 172.25.90.33	takçı: FlexConfigs	
Filter : - none - 🐨	Prepended MexConfig	,	
 Department. Location Al 172.25.90.33 172.25.90.34 	Pio.	Name	Description
AAA Pules A Access Rules Inspection Rules () Settings	Appended FlexConfig	5 Name	Description
Transparent Rules Web Filter Rules Signatures Event Actions General Settings Interface Rules NAT Site to Site VPN			
E Remote Access VPN E S3L VPN B Interfaces E Refigm Perconfig			Values Prevlew 🔿 🗢 😥 😭

11. In de Geselecteerde FlexConfiguration lijst kiest u IOS_IPS_PUBLIC_KEY en klikt u op OK.

	1		Consul in		biama	-
Filter : none V				S_IPS_PUB	LIC_KEY	
CAT6K_ECLB_portchannel	^					
CAT6K_firewall_multiple_vlan_interfaces						
IOS_add_bridge_interface_desc						
DIOS_CA_server						
IOS_compress_config						
105_config_root_wireless_station						
IOS_console_AAA_bypass						
105_Copy_Image						
105_enable_SSL		>>				
E IOS_FPM		<<	1			
105_IPS_SIGNATURE_CATEGORY						
IOS_PKI_with_AAA						
DIOS_set_dock						
105_VOIP_advance						
E IOS_VOIP_simple						
105_VPN_config_gre_tunnel						
IOS VPN set interface desc						
105_VPN_shutdown_inside_interface						
IOS VRF on VFW						
	¥					
a 🖉						
20						

- 12. Klik op **Opslaan** om de wijzigingen op te slaan.**Opmerking:** IOS_IPS_PUBLIC_KEY FlexConfig houdt de configuratie voor de openbare toets vast.
- 13. Kies in het menu links de optie Algemene instellingen onder de IPS-kop.
- 14. Geef de configuratielocatie van IPS op de flitser op. Dit is de plaats waar de IPS configuraties worden geplaatst.
- 15. Klik op **Opslaan** om de wijzigingen op te slaan.

Cisco Security Manager - admin Co	onnected to '172.25.90.8'			
Ele gat yew galay gap Iools (Reb			
	5 7			
Devices 🔮 💼	Device: 172.25.90.33 Policy: Gen	eral Settings		
Fiter : - none - 💌	D	lock Traffic when IP5 e	ngine unavaliable	
Department	Apply Deny Action on: Ing	ess Interface	~	
+ (MAL	SDEE Properties			
172.25.90.33	Maximum Subscriptions:*			
172.25.90.34	Maximum Alerts:* 20	0		
	Maximum Messages:* 20	D		
	me forthe Localization Browner			
	IPS Config Location Property	Fach-last	_	
AMA Rules	Marathin	Page 1, Page 1		
Access Rules	Plas retries:	p.		
Dispection Rules	Taweout seconds between retrie	r lo		
E Settings				
Transparent Rules				
Web Filter Rules				
C Smatrees				
E Event Actions				
General Settings				
Distantian				
_ NAT				
Site to Site VPN				
E Remote Access VPN				
A Interfaces				
B Platform				
🖓 PlexConfigs 🔍 🗸				
				Seve
				Silling Strappedia

Opmerking: Controleer of de locatiemap al op routerflitser is gemaakt. Als dit niet het geval is, gebruik dan de opdracht **mkdir <folder_name>** om de adresmap te maken.

- 16. Om IPS mogelijk te maken, navigeer naar interfaceregels, controleer het vakje **IPS inschakelen** en klik vervolgens op **Weg toevoegen**.
- 17. In het dialoogvenster Toevoegen IPS-regel typt u een naam voor de IPS-regel in het veld Naam regel en vervolgens klikt u op **Row toevoegen** om de interfaces op te nemen waarop IPS moet worden toegepast.

a: 172.25.90.33 Policy: Interface Rules Inable IPS	
a: 172.25.90.33 Policy: Diterface Rules Diable IPS	
n 172.25.90.33 Policy: Diterface Rules Diable IPS	
Enable IPS	
Enable IPS	
No. Rule Name ACL Name Interface (Direction)	
the function of a fact of the second s	
ADD IPS Rule	
Add/Edit IPS Rule	
Rule Name:* mybol	
Al Rene	
H.L. NEWC	
Interface (Direction) Direction	
1 N N N N N N N N N N N N N N N N N N N	
Add Row	
CK Carde Pep	

18. Klik op de radioknop die aangeeft in welke richting de IPS-regel moet worden toegepast en klik vervolgens op Selecteren om de juiste interfaces te

Direction:*				
In	Oout		Both	
Interfaces:*	[Select	
	F	OK	Cancel	Help

19. Kies een interface in de lijst Interfaceselector en klik op

Filter	: none	~	
	Dot11Radio0		
	FastEthernet0		
	FastEthernet1		
-	FastEthernet2		
	FastEthernet3		
	FastEthernet4		
	Viant		
	Futernal		
	Internal		
Selecte	d:		
(Table	-		
9			
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20. Klik op **Opslaan** om de wijzigingen op te slaan.

Cisco Security Manager - admi	in Connected to '172.25.90.0'	
Elle Edit Yew Bolicy Map Iool	ar Ant	
	3 ?	
Devices	😭 Device: 172.25.90.33 Policy: Interface Rules	
Fitter: none w	€ Enable IPS	
ig Department	No. Rule Name ACL Name Interface (Direction)	
Jucation	1 mylps 🔤 Vian1 (both)	
👻 🎒 Al		
172.25.90.33		
@ Freval		
AAA Rules		
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E Settings		
Transparent Rules		
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Signatures	•	
Event Actions		
General Settings		
Interface Rules		
- NAT		
Size to Size VPN		
El Renote Access VPN		
IN SOL VPN		
E PONTACHS		
The second se		

21. Kies Gereedschappen > IPS-bijwerking toepassen om de laatste IPS-handtekeningen te installeren.



22. Kies het nieuwste bestand voor handtekening en klik op

Volgende.

Tume: Simply	ra i Indatar 🔐			Labort Availables	105 CE MCD die 5363 and 51 die
Table: Signado	re opdakes		1	Latest Available:	IPS-CS-MGR-sig-S282-req-E1.2p IPS-CS-MGR-sig-S282-req-E1.2p
	File	9g.	Engine	Latest Applied:	IPS-CS-MGR-sig-5282-reg-E1.zip
IPS-CS-MGR-sig-S	278-req-E1.zip	278	1	Latest Deployed:	IPS-CS-MGR-sig-5282-reg-E1.zip
IPS-CS-MGR-sig-S	280-req-E1.zip	280	1	Last Checked On:	Are 10 2007 10:46:37
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PO-CO-Mak-sig-D	202-red-E1-2p	202		Last Deployed On: Apr 23 2007 17:56:38	
					Check For Updates
					Download Latest Updates
Update Details				1	
File: Description:	IPS-CS-MGR-sig- IPS-CS-MGR-sig-	5282-req-E1.zp 5282-req-E1.zp			
Date:	Apr 19 2007	Size:	3.8MB		
Release:	5282	Required Engine Lev	vel: E1]	

23. Kies de apparaten waarop de IPS-update moet worden toegepast en klik op **Volgende**.

Type: Local Signatures Policies 🗸	172.25.90.33
Department D	
Select All Deselect All	Back Next Finish Cancel He

24. Klik op **Voltooien** om de handtekeningen toe te passen.

Si m	24	interior start Marrie interior	Artinor	Savardu	Endalba	Saure	Frahlad	Dirk
1000	0	IP options-Bad Option List	Produce Alert	Informational	75	Default	true	18
1001	1/18	IP options-Record Packet Route	Produce Alert	Infomiational	1// /06	Default	1/ seles	1/25/
1002	a	IP options-Timestamp	Produce Alert	Informational	100	Default	Ealsa	35
1003	a	IP options-Provide s, c, h, tcc	Produce Alert	Informational	100	Oefault	False	3
1004	0	IP options-Loose Source Route	Produce Alert	Hop	100	Oefault	false	100
1005	0	IP options-SATNET ID	Produce Alert	Informational	100	Oefault	false	3
1006	0	IP options-Strict Source Route	Produce Alert	High	100	Default	true	100
<			.0					
								1

25. Blader naar IPS en kies **Handtekeningen** om de lijst met alle handtekeningen te bekijken.

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26. Kies **Bestand > Verzenden en implementeren** om IPS op de IOS-router in te voeren.

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27. Kies het apparaat waarop u de wijzigingen wilt invoeren en klik op

172.25.90	.33		
Edit d	leploy method	Add othe	r devices

28. Bekijk de implementatiestatus om te controleren of er fouten zijn.

ployment Status Details					
	12.5				
Status:	Deployed ()	1 out of 1 devices cor	mpleted.)		
Deployment Job Name:	admin_job_2	2007-04-24 10:53:10	1.468		
Devices Deployed Successfully:	1				
Devices Deployed With Errors:	0				
Deployment Details (1/1 loade	ed)				
Device	Status	Summary	Method	Config	Transcript
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Gerelateerde informatie

- Cisco IOS IPS-pagina (Inbraakpreventiesysteem) voor producten en services
- Om aan de slag te gaan met Cisco IOS IPS met bestandsindeling voor 5.x-handtekeningen
- Verbeteringen in IPS 5.x-signaalindeling en bruikbaarheid
- <u>Cisco-inbraakpreventiesysteem</u>
- Security meldingen uit het veld (inclusief Cisco Secure Inbraakdetectie)
- Technische ondersteuning Cisco-systemen