

## How to Use CSM to Configure IOS IPS

Cisco<sup>®</sup> Security Manager(CSM) is part of the Cisco Security Management Suite, which delivers comprehensive policy administration and enforcement for the Cisco Self-Defending Network. Cisco Security Manager is an industry-leading enterprise-class application for managing security. Cisco Security Manager addresses configuration management of firewall, VPN, and intrusion prevention system (IPS) security services across Cisco routers, security appliances, and security services modules. For a summary of Cisco Security Manager Features and benefits, including new features in Version 3.1, refer to the Cisco Security Manager 3.1 data sheet at

http://www.cisco.com/go/csmanager. Customer can download CSM 3.1 from Cisco.com at http://www.cisco.com/cgi-bin/tablebuild.pl/csm-app

This document will guide users step by step by using CSM 3.1 to perform initial configuration of IOS IPS. For routers already configured with IOS IPS, customers can directly use CSM 3.1 for provisioning tasks.

Note: CSM 3.1 supports only IOS 12.4(11)T2 and later IOS images for configuring IOS IPS.

Step 2 Click on File menu and select New Device to add a device onto the CSM 3.1 Cisco Security Manager - admin Connected to '172.25.90.8" - IO × Edit View Policy Map Icols Help New Device... 3 ? Clone Device... Device: 172-25.90.91 Policy: FlexConfigs Delete Device... Chl+S Prepended FlexConfigs Save View Changes... No. Validate Submit Submit and Deploy... Deploy .. Discard Edit Device Groups... New Device Group. Add Devices to Group Chi+P Ctrl+Q Exit... Inspection Rules Appended FlexConfig No. E Settings Transparent Rules Web Filter Rules E IPS NAT Site to Site VPN Remote Access VPN FT SSL VPN Interfaces FI Platform FlexConfigs Yalues... Preview... 🔺 🐳 🖊 🍵 Sau

Step 1 Run CSM 3.1 client from the local pc

Step 3 In the New Device screen, choose how you would like to add the device. In our case, we choose to Add Device From Network. Click Next.

ew 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 Security Manager makes a secure connection with the device and discovers its identifying information and properties.	
Add from Configuration File	
When you add a device using its configuration file, Cisco Security Manager discovers the device's identifying information, properties and policies from the file.	3
Add New Device	
You can add a device that is not yet on the network by specifying the device's identifying information and credentials.	1
Add Device From DCR	
If you are using other CiscoWorks applications and your devices have already been added to the device credentials repository, you can import them into Cisco Security Manager.	
Back Next Finish C	ancel Help

Step 4 Enter the Identity details of the device which you want to add like the hostname, ip address. Click Next.

IP Type: Host Name: Domain Name:	Static v	
Host Name: Domain Name:		
Domain Name:		
IP Address:	172.25.90.91	
Display Name:*	172.25.90.91	
OS Type:*	×	
	IOS-12.3+ IOS-12.2.12.1	
	IOS - Catalyst 6500/7600	
Discover Device Setti	PIX FWSM	
Discover:	IPS	
	ASA	
	Firewall Policies	
	IPS Policies	
	RA VPN Policies	
	Discover Policies for Security Contexts	

Step 5 Enter the Primary Credentials like Username, Password, Enable password for the IOS Router which you want to add. Click on Finish to add the device onto CSM.

Username:  c Password:*  * Enable Password:	*********			
Password:* [* Enable Password:	******	and an end of the		
Enable Password:		Confirm:*	****	
		Confirm:		
TTP Credentials				1
	Use Primary Credentials			
	Username:			
	Confirm:			
HTTP Port:	0			
HTTPS Port:	43			
IPS RDEP Mode:	ITTPS			
Certificate Common Name:		Confirm:		

**Note:** Here we assume that, the user already has a preconfigured router and can login to the router using the credentials.

Step 6 You will see the Discovery Status screen which shows the status of the discovery. If you see that the Status as "Discovery completed" then, you have successfully added a device onto the CSM. Proceed to the next step.

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1		1008			
Status: Devices Devices Devices	to be discovered; discovered successfully; discovered with errors;	Discovery compl 1 1 0	eted with warn	ings	
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ype	Manie	Devency		SISTE	Discovered From
89	172.25.90.91	•	Discovery C	ompleted with Warnings	Live Device
0	172.25.90.91 Messages	•	Discovery Co Severity	Description	
terfac	Messages es wide open for traffic	©	Discovery G	Description The following interface ng a new Access-rule of	Live Device s are wide open for traffic as there is no ACL applied on them. Addi [ n these interfaces means that there will no longer be such inplicit p
nterfac olicies (	Messages es wide open for traffic discovered	©	Severity	Description The following interface ng a new Access-rule ermission of traffic any FastEthernet0	Live Device s are wide open for traffic as there is no ACL applied on them. Addi on these interfaces means that there will no longer be such implicit p more:
nterfac olicies ( xisting	Messages es wide open for traffic discovered policy objects reused	©	Severity	Description The following interface ng a new Access-rule ermission of traffic any FastEthernet1 FastEthernet1	s are wide open for traffic as there is no ACL applied on them. Addi on these interfaces means that there will no longer be such implicit p more:
nterfac olicies ( xisting 25 sign:	Messages es wide open for traffic discovered policy objects reused ature policy not discovered.	©	Severity Severity C C C C C C C C C C C C C	Description The following interface ng a new Access-rule of emission of traffic any FastEthernet0 FastEthernet1 FastEthernet2 FastEthernet2 FastEthernet3	s are wide open for traffic as there is no ACL applied on them. Add I n these interfaces means that there will no longer be such implicit p more:

Step 7 The 1st thing to do for enabling IPS is to assign a public key, Navigate to FlexConfigs configuration screen on the left menu. Click on the FlexConfigs user interface on the right side of the screen, Press on the Add button.

Cisco Security Manager - admin	Connected to '172-25-90.8'		
	Ch 🦻		
	Device: 172.25.90.33	lolicu: Elevel onfins	
Devices		city, i how contrigo	
Filter : 🔤 none 🖌 🖌	Prepended FlexConfig	ß	
<ul> <li>Department</li> <li>Location</li> <li>Jall</li> <li>172.25.90.33</li> <li>172.25.90.34</li> </ul>	- No.	Name	Description
AAA Rules Access Rules Inspection Rules	Appended FlexConfigs	5 Nama	Description
Transparent Rules	140.	Ivene	Description
🗾 Web Filter Rules			
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Event Actions			
General Settings			
Interface Rules			
S NAT			
Site to Site VPN			
Remote Access VPN			
E SSL VPN			
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FlexConfigs			Add
			Silve
N			

Step 8 Select IOS\_IPS\_PUBLIC\_KEY FlexConfigs from the table and click OK. Click on Save button to save the changes. "IOS\_IPS\_PUBLIC\_KEY" has the config for Public Key.

Filter : 🔄 none	Name IOS_IPS_PUBLIC_KEY
<ul> <li>CAT6K_ECLB_portchannel</li> <li>CAT6K_firewall_multiple_vlan_interfaces</li> <li>IOS_add_bridge_interface_desc</li> <li>IOS_cA_server</li> <li>IOS_compress_config</li> <li>IOS_console_AAA_bypass</li> <li>IOS_console_AAA_bypass</li> <li>IOS_copy_Image</li> <li>IOS_enable_SSL</li> <li>IOS_FPM</li> <li>IOS_set_clock</li> <li>IOS_VPIP_advance</li> <li>IOS_VPIP_simple</li> <li>IOS_VPN_set_interface_desc</li> <li>IOS_VPN_shutdown_inside_interface</li> <li>IOS_VRF_on_vFW</li> </ul>	
2	

Step 9 Click on the IPS section and navigate to General Settings. Provide the IPS config location on the flash. This location will be used to place the IPS configs. Click on Save button to save changes.

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Devices	Usivitai 172-23-30-33 Policy, deneral decango	
Filter : 🔤 - none 🖌	Block Tysffir when TDS engine unavailable	
a Location	Appry Deny Action on:	
	- SDEF Properties	
172.25.90.33	Maximum Subscriptions:* 1	
172,25.90.34	Maximum Alaster#	
	Maximum Messages:*  200	
	IPS Config Location Properties	
1	IPS Config Location: Flash:/ps	
AAA Rules	May reprise:	
Access Rules		
Inspection Rules	Imeour seconds between retries: 10	
Settings	8	
Transparent Rules	1	
🗍 Web Filter Rules		
E IPS		
∑ Signatures		
Event Actions		
General Settings	2	
C NAT		
Site to Ste VPN		
Remote Access VPN		
E SSL VPN		
🗉 Interfaces		
Platform		
FlexConfigs	×	
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	the second se	Jave

**Note:** Make sure the location directory has already been created on router flash. If not, use "mkdir <directory\_name>" to create the location directory.

Step 10 To Enable IPS, navigate to Interface Rules and Check on "Enable IPS" check box and then, press on the Add Row button.

Step 11 In the Add/Edit IPS Rule screen, enter a Rule Name for the IPS. Click on the Add Row button to include the interfaces on which IPS has to be applied.

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	?	
	Device: 172.25.90.23 Policy: Interface Pulse	
Devices	perior increasion of the principal and the	
Filter : none 🖌	Fnable IPS	
@Denertment	No. Rule Name ACL Nar	Interface (Direction)
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- 🔿 Al		
172.25.90.33	ADD IPS Rule	×
172.25.90.34	Add/Edit IPS Pule	
	Pule Name *	mund .
	role none.	prites (
	ACL Name:	Select
	Interface (Di	ction) Direction
AAA Rules		
Access Rules		
Inspection Rules		
Settings		
🗇 Transparent Rules	E.	
🗇 Web Filter Rules		
E IPS		Add Row
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Event Actions		OK Cancel Help
General Settings		
S Interface Rules		
E NAT		
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Step 12 Select the Direction in which the IPS rule has to be applied and Click on the Select button to choose the Interfaces.

Direction:*			
◯In	Out	() Both	
Interfaces:*		Select	

Filter :	0006	~	
1 1001 1	- none		
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E Fa	astEthernet0		
E Fa	astEthernet2		
E F	astEthernet3		
Fa	astEthernet4		
- vi	an1		
A 🗐	l-Interfaces		
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elected:			
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Step 13 Select the Interface from the Interface Selector and Press OK.

Step 14 Click on the Save button to Save the changes.

Edit View Policy Map Tool	s Heb	
Devices	Device: 172.25.90.33 Policy: Interface Rules	
Filter : none 💌	Enable IPS	
Department	No. Rule Name ACL Name Interface (Direction)	
a Location	1 mylps 🔤 Vian1 (both)	
A 172 25 00 23		
1/2:23:90:33		
] Firewall		
AAA Rules		
Access Rules		
Inspection Rules		
(F) Settings		
C Transparent Pules		
Web Filter Rules		
1 105		
C Sanaturas		
D Supratures		
E Event Actions		
Seneral Settings		
S Interface Rules		
NAT		
Site to Site VPN		
E Remote Access VPN		
E SSL VPN		
Interfaces		
Platform		

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		Policy Object Manager	are Duler				
Devices	50	Site-To-Site VPN Manager	dec maios				
Filter : - none		Deployment Manager					
/ Den urbmant	-	Policy Discovery Status	ACI Name		Interface (Direction)	ř.	
a Location		Show Containment	All and a second	Vian1	(both)		
- AI		Inventory Status					
172.25.90.33	-	Catalyst Summery Info					
3 172.25.90.34	-	Device Manager					
		IPS Event Viewer					
	C	Apply IPS Update					
		Preview Configuration					
		Device OS Management					
AAA Rules	E	Audit Report					
Access Rules		Change Reports					
Inspection Rules	124	Configuration Archive					
Transmanet Pular		Backup					
Web Filter Rules		Country Manager Dispersion					
D IPS	-	Security manager traginostics					
	20	becurity Magager Administration					
Event Actions							
General Settings		21 C					
Interface Rules							
NAT							
Disite to Site VPN							
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Step 15 Click on the Tools menu and Select Apply IPS Update to install the latest IPS signatures.



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Type: [		1 245		Latest Available: IPS-CS-MGR-sig-5282-reg-E1.2
	File	Sig.	Engine	Latest Applied: IPS-CS-MGR-sig-5282-reg-E1.2
PS-CS-MG	R-sig-S278-req-E1.zip	278	1	Latest Deployed: IPS-CS-MGR-sig-5282-req-E1.2
PS-CS-MG	R-sig-S280-req-E1.zip	280	1	Last Checked On: Apr 19 2007 10:46:37
C C MC	D. cia 5292 rea E1 ain	202	2411	Last Downloaded On: Apr 19 2007 10:10:37
-SHCS-ING	K-sig-baoan eq-carap	202		Last Deployed On: Apr 23 2007 17:56:38
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				Check For Updates
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File: Descripti	IPS-CS-MGR-sig	g-5282-req-E1.zip g-5282-reg-E1.zip		
Date:	Apr 19 2007	Size:	3.8MB	
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			Back	Next Finish Cancel

Type: Local Signatures Policies	172.25.90.33	
Department		
✓ Ø ▲ AI		
172.25.90.33		
Select ()   Decelect ()		

Step 17 Select the devices on which the IPS update has to be applied and click Next.

Step 18 Click on the Finish button to apply the signatures.

ID	Cub	Nama	Actions	Courseibu	Eidalitu	Source	Enabled	Bick	
1000	0	IP options-Bad Option List	Produce Alert	Informational	75	Default	true	18	0
1001	1/10	IP options-Record Packet Route	Produce Alert	Informational	100	Default	false	25/	8
1002	8	IP options-Timestamp	Produce Alert	Informational	100	Default	false	25	3
1003	a	IP options-Provide s, c, h, tcc	Produce Alert	Informational	190	Default	false	25	3
1004	0	IP options-Loose Source Route	Produce Alert	Heat	100	Default	false	100	S
1005	0	IP options-SATNET ID	Produce Alert	Informational	100	Default	false	25	1
1006	0	IP options-Strict Source Route	Produce Alert	High	100	Default	true	100	
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Location	ID	Sub	Name	Actions	Seventry	Fideity	Source
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	1092	8	IP options-Timestonep	Produce Alert	Informational	100	Default
	1003	0	IP options-Provide s, c, h, tcc	Produce Alert	Informational	100	Default
	1095	0	IP options-Loose Source Route	Produce Alert	High	100	Default
	1005	0	IP options-SATNET ID	Produce Alert	Informational	100	Dafault
****	1006	0	IP options-Strict Source Route	Produce Alert	High	100	Default
ewall	1007	1/6/	IPvő over IPv4	Produce Alert	Informational	100	Default
AAA Rules	1101	0	Unknown IP Protocol	Produce Alert	Informational	75	Default
Inspection Rides	1102	0	Impossible IP Packet	Produce Alert	High	100	Default
Settings	1104	0	IP Localhost Source Spoof	Produce Alert	High	100	Default
Transparent Rules	1107	10160	RFC 1918 Addresses Seen	Produce glert	Informational	/// not	Default
Web Filter Rules	1108	0	IP Packet with Proto 11	Produce Alert	High	100	Default
	1100	11/0	Close 105 Interface DoS	Dividua Alart	Madam	36////	DeFault
Signatures	=	an	Che MC handle Dat	Produce Merre	herren (	1.11	Colored .
Event Actions	2444	120	Claco Iolo Internace Doo	Hodrice Hiele	regun	13	Cerout
Interface Rules	1109	K	Claco ICS Incertace pos	Produce were	Medium	(a)	Deraut
T.	1103	3/	Gisco JOS Interface DoS	Produce Alert	Medium	75	Default
e to Site VPN	1201	18//	IP Fragment Overlap	Deny Packet Inine, Produce Alert	Informational	100	Default
mote Access VPN	1202	0	IP Fragment Overrun - Datagram Too Long	Deny Packet Inline, Produce Alert	High	100	Default
L VPN	<		111			200	>
terfaces					View Update Level		₽/

Step 19 Navigate to IPS and Click on Signatures to view the list of all the signatures.

Step 20 Go to File Menu and click on "Submit and Deploy..." to deploy IPS on the IOS router.

New Device Ctrl+N	3 ?					
glone Device	Devices 172.25	1) 22 Polou Sconstruer				
Delete Device	Conton Inc.con	orioo Folicy olgitatares		_	-	
≦ave Cbil+S	🕶 Filter: ( n	one)	-			17/2
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Deploy	1002 0	IP options-Timestamp	Produce Alert	Informational	100	Default
Discard	1003 0	IP options-Provide s, c, h, tcc	Produce Alert	Informational	160	Default
Edit Device Groups	1004 0	IP options-Loose Source Route	Produce Alert	High	100	Default
New Device Group	1005 0	IP options-SATNET ID	Produce Alert	Informational	100	Default
Add Devices to Group	1006 0	IP options-Strict Source Route	Produce Alert	High	100	Default
Editt Chil+P	1007 6	IPv6 over IPv4	Produce Alert	Informational	160	Default
Exit Ctrl+Q	1101 0	Unknown IP Protocol	Produce Alert	Informational	75	Default
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g Platform 😽						

172.25.90.33	
Edit deploy method	Add other devices
Edit deploy method	Add other devices

Step 21 Select the device on which you want to deploy the changes and Click "Deploy"

Step 22 View the Deploy status to verify if there are any errors.

lovment Status Details		and the second se			
io financia scatas pacan.	\$				
	1.00	106			
Status:	D	eployed (1 out of 1 devices	completed.)		
Deployment Job Name:	: a	dmin_job_2007-04-24 10:53	:10.468		
Devices To Be Deploye	d: 1				
Devices Deployed Succ	essfully: 1				
Devices Deployed with	ichors, o				
enlovment Details (1/	1 loaded)				
Device	Statu	s Summary	Method	Config	Transcript
72.25.90.33	SUCCEEDED	Warning: 2	Device	6	G
			Description		
Mess	agës	Severity	Description >>>> Difference of file "C:	PROGRA~1\CSCOpx\MDC\be	mp\2007.04.24_10.53
Mess ut of Band Change: CLI	ages	Severity	Description >>>> Difference of file "C: 15_job_admin_job_2007-04 7401diff archived" and file "	PROGRA~11C5C0px(MDC)te -24 10_53_10_468(\phase1) 105GRA~1(C5C0px(MDC)	mp\2007.04.24_10.53 172_25_90_33_429498 1/2007.04.24_10.
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