PIX/ASA 7.x y posteriores: Conexión de las redes internas múltiples con el ejemplo de configuración de Internet

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Introducción

Este documento proporciona una configuración de muestra para la versión 7.x y posterior del Dispositivo de Seguridad PIX/ASA con varias redes internas que se conectan a Internet (o a una red externa) usando la interfaz de línea de comandos (CLI) o Adaptive Security Device Manager (ASDM) 5.x y posterior.

Refiérase <u>establecen y resuelven problemas la Conectividad a través del dispositivo del Cisco</u> <u>Security</u> para la información sobre cómo establecer y resolver problemas la Conectividad con el PIX/ASA.

Refiérase <u>usando nacional, global, estático, conducto, y los comandos access-list y el puerto</u> <u>Redirection(Forwarding) en el PIX</u> para la información sobre los comandos pix comunes.

Nota: Algunas opciones en otras versiones del ASDM pueden aparecer diferentes de las opciones en el ASDM 5.1. Consulte la <u>documentación ASDM</u> para obtener más información.

prerrequisitos

Requisitos

Cuando usted agrega más de una red interna detrás de un firewall PIX, tenga estas puntas presente:

- El PIX no soporta el direccionamiento secundario.
- Un router tiene que ser utilizado detrás del PIX para alcanzar la encaminamiento entre la red existente y la red nuevamente agregada.
- El default gateway de todos los host necesita señalar al router interno.
- Agregue una ruta predeterminado en el router interno esas puntas al PIX.
- Borre el caché del Address Resolution Protocol (ARP) en el router interno.

Consulte <u>Cómo Permitir Acceso HTTPS para ASDM</u> para permitir que el dispositivo sea configurado por el ASDM.

Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- Dispositivo de seguridad 515E PIX con la versión de software 7.1
- ASDM 5.1
- Routeres Cisco con el Software Release 12.3(7)T de Cisco IOS®

Nota: Este documento recertified con la versión de software 8.x del PIX/ASA y el Cisco IOS Software Release 12.4.

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener cualquier comando.

Productos Relacionados

Esta configuración se puede también utilizar con la versión 7.x y posterior del dispositivo de seguridad de Cisco ASA.

Convenciones

Consulte <u>Convenciones de Consejos Técnicos de Cisco</u> para obtener más información sobre las convenciones sobre documentos.

<u>Configurar</u>

En esta sección encontrará la información para configurar las funciones descritas en este documento.

Nota: Utilice la herramienta Command Lookup Tool (clientes registrados solamente) para obtener

más información sobre los comandos utilizados en esta sección.

Los esquemas de direccionamiento IP usados en esta configuración no son legalmente enrutables en Internet. Son las direcciones RFC1918 que se han utilizado en un entorno de laboratorio.

Antecedentes

En este escenario, hay tres redes internas (10.1.1.0/24, 10.2.1.0/24 y 10.3.1.0/24) que se conectarán con Internet (o una red externa) con el PIX. Las redes internas están conectadas con la interfaz interior del PIX. La conectividad a Internet está a través de un router que esté conectado con la interfaz exterior del PIX. El PIX tiene la dirección IP 172.16.1.1/24.

Las Static rutas se utilizan para rutear los paquetes de las redes internas a Internet y vice versa. En vez de usar las Static rutas, usted puede también utilizar un Dynamic Routing Protocol tal como Routing Information Protocol (RIP) o Open Shortest Path First (OSPF).

Los host internos comunican con Internet traduciendo las redes internas en el PIX usando NAT dinámico (pool de los IP Addresses - 172.16.1.5 a 172.16.1.0). Si el pool de los IP Addresses se agota, el PIX ACARICIARÁ (usando la dirección IP 172.16.1.4) a los host internos para alcanzar Internet.

Refiera a las <u>declaraciones del PIX/ASA 7.x NAT y de la PALMADITA</u> para más información sobre el NAT/PAT.

Nota: Si el NAT estático utiliza la dirección exterior del IP (global_IP) para traducir, ésta pudo causar una traducción. Por lo tanto, use la **interfaz de la** palabra clave en vez de la dirección IP en la traducción estática.

Diagrama de la red



En este documento, se utiliza esta configuración de red:

La gateway predeterminada de los hosts en la red 10.1.1.0 apunta hacia el RouterA. Una ruta predeterminado en el routerB se agrega que señala al routerA. RouterA tiene una ruta

predeterminada que señala a la interfaz interior de PIX.

Configuraciones

En este documento, se utilizan estas configuraciones:

- Configuración del router A
- Configuración del RouterB
- Configuración del dispositivo de seguridad 7.1 PIXConfiguración PIX usando el ASDMConfiguración CLI del dispositivo de seguridad PIX

```
Configuración del router A
RouterA#show running-config
Building configuration ...
Current configuration : 1151 bytes
1
version 12.4
service config
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
hostname RouterA
1
interface Ethernet2/0
ip address 10.2.1.1 255.255.255.0
half-duplex
!
interface Ethernet2/1
ip address 10.1.1.2 255.255.255.0
half-duplex
1
ip classless
ip route 0.0.0.0 0.0.0.0 10.1.1.1
ip route 10.3.1.0 255.255.255.0 10.1.1.3
1
!
line con 0
line aux 0
line vty 0 4
!
end
RouterA#
Configuración del RouterB
RouterB#show running-config
Building configuration ...
Current configuration : 1132 bytes
!
version 12.4
service config
```

service timestamps debug datetime msec service timestamps log datetime msec

```
no service password-encryption
hostname RouterB
1
interface FastEthernet0/0
ip address 10.1.1.3 255.255.255.0
speed auto
1
interface Ethernet1/0
ip address 10.3.1.1 255.255.255.0
half-duplex
ip classless
ip route 0.0.0.0 0.0.0.0 10.1.1.2
control-plane
1
!
line con 0
line aux 0
line vty 0 4
!
end
RouterB#
```

Si usted quiere utilizar el ASDM para la configuración del dispositivo de seguridad PIX, pero no ha atado el dispositivo con correa, complete estos pasos:

- 1. Consola en el PIX.
- De una configuración despejada, utilice los prompts interactivos para habilitar el ASDM para la Administración del PIX del puesto de trabajo 10.1.1.5.

```
Configuración del dispositivo de seguridad 7.1 PIX
Pre-configure Firewall now through interactive prompts
[yes]? yes
Firewall Mode [Routed]:
Enable password [<use current password>]: cisco
Allow password recovery [yes]?
Clock (UTC):
 Year [2005]:
 Month [Mar]:
 Day [15]:
 Time [05:40:35]: 14:45:00
Inside IP address: 10.1.1.1
Inside network mask: 255.255.255.0
Host name: OZ-PIX
Domain name: cisco.com
IP address of host running Device Manager: 10.1.1.5
The following configuration will be used:
        Enable password: cisco
        Allow password recovery: yes
         Clock (UTC): 14:45:00 Mar 15 2005
        Firewall Mode: Routed
         Inside IP address: 10.1.1.1
         Inside network mask: 255.255.255.0
         Host name: OZ-PIX
```

```
Domain name: cisco.com
         IP address of host running Device Manager:
10.1.1.5
Use this configuration and write to flash? yes
         INFO: Security level for "inside" set to 100 by
default.
         Cryptochecksum: a0bff9bb aa3d815f c9fd269a
3f67fef5
965 bytes copied in 0.880 secs
         INFO: converting 'fixup protocol dns maximum-
length 512' to MPF commands
        INFO: converting 'fixup protocol ftp 21' to MPF
commands
         INFO: converting 'fixup protocol h323_h225
1720' to MPF commands
         INFO: converting 'fixup protocol h323_ras 1718-
1719' to MPF commands
        INFO: converting 'fixup protocol netbios 137-
138' to MPF commands
        INFO: converting 'fixup protocol rsh 514' to
MPF commands
         INFO: converting 'fixup protocol rtsp 554' to
MPF commands
        INFO: converting 'fixup protocol sip 5060' to
MPF commands
        INFO: converting 'fixup protocol skinny 2000'
to MPF commands
        INFO: converting 'fixup protocol smtp 25' to
MPF commands
         INFO: converting 'fixup protocol sqlnet 1521'
to MPF commands
        INFO: converting 'fixup protocol sunrpc_udp
111' to MPF commands
        INFO: converting 'fixup protocol tftp 69' to
MPF commands
        INFO: converting 'fixup protocol sip udp 5060'
to MPF commands
        INFO: converting 'fixup protocol xdmcp 177' to
MPF commands
Type help or '?' for a list of available commands.
         OZ-PIX>
```

Configuración PIX usando el ASDM

Complete estos pasos para configurar vía el ASDM GUI:

- 1. Del puesto de trabajo 10.1.1.5, abra a un buscador Web para utilizar el ADSM (en este ejemplo, https://10.1.1.1).
- 2. Haga clic sí en los prompts del certificado.
- 3. Inicie sesión con la contraseña habilitada, según lo configurado previamente.
- 4. Si esto está la primera vez el ASDM se ejecuta en el PC, a le indican que utilice el activador de ASDM o el ASDM como subprograma Java. En este ejemplo, se selecciona y está instalado el activador de ASDM.
- 5. Vaya a la ventana de inicio de ASDM y haga clic la **configuración**.

			Interface Stat	lus			
General License			Interface	IP Address/Ma	isk Line	Link	Current Kb
Host Name: pixfir	ewall.default.domain.inva	lid	inside	10.1.1.1/24	💿 up	🔮 up	1
PIX Version: 7.1(1)	Device Uptim	e: 14d 6h 4m 4s					
ASDM Version: 5.1(1)	Device Type:	PIX 515E					
Firewall Mode: Route	d Context Mode	Single					
Total Flash: 16 MB	Total Memory	64 MB	Select an inter	face to view input	and output Kbp	s	
VPN Status			Traffic Status	The Contract House			
IKE Tunnels: 0	IPSec Tunnel	s: 0	Conneocions	Per Second Osage			
18 86 17.66:50 19.58	10		17:56:19 UDP: 0	TCP: ac+ Traffic Usag+ (K)	о <mark>т</mark>	otal: D	
Memory Memory	Usage (MB)		141 to 7				
0810 0810 17.58.59 17.58.1		+++++++++++++++++++++++++++++++++++++++	0.5 17:58:19	s 0	Output Kbps:	1	·····
Latest ASDM System M	essages				Co	nfigure ASC	M Syslog Filt
Corost Provid System							

6. Elija la **interfaz > editan** para configurar la interfaz exterior.

📫 Cisco ASDM	5.1 for PIX - 10.1.1.1				7 <u>8.</u>	<u>_ 0 ×</u>
File Rules s	Gearch Options Tools Wizards	s Help	0			Cisco Systems
Home	Configuration Mentering	Back Forward	Search Retresh	Save Help		
	Configuration > Interfaces					
Interfaces	* <u>*</u> * * 10 3 3	e 112 115 112 114				
Security Policy	Interface	Name Enabled	Security IP Address	Subnet Mask	Management MTU Only	Add
2. As	Ethernet0	No		Ĩ	No	Edit
NAT	Ethernet1	Inside Yes	10010.1.1.1	255.255.255.0	No 1500	Delete
93						
VPN						
Routing						
Global Objects						
Properties						
	•				•	
	Enable traffic between tw	vo or more interfaces v	which are configured with	same security levels		
			Арру	Reset		
	,		<admin></admin>	NA (15)	6 7/11/06	3 5:59:49 PM UTC

7. Ingrese los detalles de la interfaz y haga clic la AUTORIZACIÓN cuando le hacen.

lardware Port:	Ethernet0	Configure Hardware Properties
Enable Interface	Dedicate this interface to ma	nagement only
nterface Name:	outside	
Security Level:	0	
IP Address		
• Use Static IP	C Obtain Address via DHCP	
IP Address:	172.16.1.1	
Subnet Mask:	255.255.255.0	
MTU:	1500	
Description:		
	OK Cancel	Help



8.

 El tecleo se aplica para validar la configuración de la interfaz. La configuración también consigue avanzada sobre el PIX.

Cisco ASDM 5.1 I File Rules Sear	for PIX - 10.1.1.1 ch Options Tools Wizards	s Help					l		_ <u>_</u>]]
Home Co	nfiguration Monitoring	Back F	orward	Search	Refresh	Gave Help			
Interfaces	Configuration ≻ Interfaces ⊕ 🚊 🏹 💕 I 😰 I 🟦 I 🔏 B	• • • •	3 9						
Security Policy	Interface	Name	Enabled	Security Level	IP Address	Subnet Mask	Management Only	MTU	Add
2 de	Ethernet0	outside	Yes	0	172.16.1.1	255.255.255.0	No	1500	Edit
NAT	Ethernet1	Inside	Yes	100	10.1.1.1	255.255.255.0	No:	1500	Delete
Routing Global Objects Properties									
	Enable traffic between tw	va ar more in	terfaces w	hich are c Apply	onfigured with sa	ime security levels		×	
								-	

10. Elija la **política de seguridad** en la lengueta de las características para revisar la regla de la política de seguridad usada. En este ejemplo, se utiliza la regla interior del valor por defecto.

File Rules Search Options Tools Vulzards Help Home Configuration Monitoring Deck Forward Search Refeets Search Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help Fulle Frable Add Image: Search Options Tools Vulzards Help Image: Search Options Tools Vulzards Help	File Rules Search Options Tools Viltards Help Nome Image: Configuration Image:	File Rules Sear	rch Options Tools V	vizards Help					
Nome Configuration Monitoring Box Forward Search Ref resh Save Heis Configuration Monitoring Box Forward Search Ref resh Save Heis Werfaces Configuration Search Filter Rules Search Search Filter Rules Search Search Filter Rules Search Search Filter Rules Search Search Search Search Filter Rules Search	None Configuration Monitoring Back Forward Search Refresh Search Search Refresh Search Refresh<		(A)			1997 - 1992 - 19		C	
Configuration > Security Policy > Access Rules Interfaces Image: Security Policy Image: S	Image: Security Policy - Access Rules Image: Security Policy - Access Rules Image: Security Policy - Access Rules Image: Security Policy - Access Rules - Add Rules - Filter Rules - Service Policy Rules Show Rules for Interface: All Interfaces - Show All Image: Rule - Action - Bostine Policy Rules Show Rules for Interface: All Interfaces - Service - Destination - Rule Applied Interface - Service - Add - BostNetwork - To Traffic - Inside - Destination - Rule Applied - Interface - East - Destination - Rule Applied - Interface - East - Destination - Rule Applied - Interface - Destination - Rule Applied - Destination - Destination - Rule Applied - Destination - Rule Applied - Destination - Destination - Destination - Rule Applied - Destination - Destination - Rule Applied - Destination - Destination - Destination - Rule Applied - Destination - Destination - Rule Applied - Destination - Deste - Destination - Destination - Destination -	Home Co	Monitoring	Back Forward	Q Q Search Refresh	Save Help			to systems
	Allow traffic Show Summary C Show Detail	Home Co	Allow traffic		Search Refresh	Save Help	Interface nside outbound)	Service Pip	Add Edit Delete

11. En este ejemplo, se utiliza el NAT. Desmarque el **tráfico del permiso con el Firewall sin la** casilla de verificación de la **traducción de la dirección** y el tecleo **agrega** para configurar la regla

NAT.

File Rules S	5.1 for PIX - 10 Search Option	.1.1.1 s Tools Wizar	ds Help				<u>_ ×</u>
Ioms	Configuration	Monitoring	Back Forward	Q Q Search Rafrash	📄 🢡 Savie Неір		LISCO SYSTEMS
Interfaces	Contiguratio	in > NAT > Trans I III	lation Rules Par (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	translation ation Rules			
NAT	Show R	ules for Interface	All Interfaces	Show All		Translated	Add
VEN	Туре	Interface	Source Network	Destination Network	Interface	Address	Edit
Routing Global Objects Properties		IC NAT	Dynamic NAT 🖓 Sta	LIE Policy NAT	Dynamic Policy NA	T Manage Pools	
				Apply	Reset		3 5:02:29 PM UTC

 Configure la red de origen. En este ejemplo, 10.0.0.0 se utiliza para la dirección IP, y 255.0.0.0 se utiliza para la máscara.Haga clic en Administrar Pools para definir las direcciones del pool NAT.

		Interface: IP Address:	inside 10.0.0	•		
		Mask:	255.0.0.0	¥		
						NIST ORFORM
anslate Ac Translate C 1	ldress on Inte Address To - Static	IP Address:	ide 🔽	<u>*</u>		NAT Options
anslate Ac Translate C ı ı	Idress on Inte Address To – Static Redirect © TCP © UDP	erface: outs IP Address: port Original port	ide	slated port:		NAT Options
anslate Ac Translate O 1	Idress on Inte Address To – Static Redirect © TCP © UDP Dynamic	erface: outs IP Address; port Original port Address Pool:	ide 💽	slated port:	Manage Poo	DIS
anslate Ac Translate O 1	Idress on Inte Address To – Static Redirect © TCP © UDP Dynamic Pool ID	erface: outs IP Address; port Original port Address Pool:	ide	slated port:	Manage Poo	DIS

13. Seleccione la interfaz exterior y el haga click en Add

Iside	IF Address(es)	bhā
utside		
		Edit
		Delete

14. En este ejemplo, se configura el pool de un rango y del PAT Address. Configure el direccionamiento del agrupamiento NAT del rango y haga clic la **AUTORIZACIÓN**.

				1	
Range					
C Port Ac	ldress Translat	ion (PAT)			
C Port Ac	ldress Translati	ion (PAT) using	g the IP addres	s of the interface	
-					
IP Ac	idress: 172.	16.1.5		172.16.1.10	
Netw	/ork Mask (optic	onal): 256	5.255.255.0		

15. Seleccione la interfaz exterior en el paso 13 para configurar el PAT Address. Haga clic en OK

nterface:	outside	•	Pool ID:	1	
C Range					
Port Ad	dress Translation	(PAT)			
C Port Ad	dress Translation	(PAT) using	the IP address	s of the interface	
IP Ad	dress: 172.16.	1.4			
Netw	ork Mask (optiona	I): 255.:	255.255.0		

nuar. anage Global Ag	Idvass Dools		
Global Address I	Pools		
Hobal Address F ddresses.	ools are used to cor	figure Dynamic Network Address Translation	n <mark>(NAT)</mark>
Interface	Pool ID	IP Address(es)	
inside			Add
outside outside	1 172.1	6.1.5-172.16.1.10	Innennand
			Edit
			Delete

 En la ventana de la regla de traducción de la dirección del editar, seleccione el pool ID para ser utilizado por la red de origen configurada. Haga clic en OK.

- Ose NAT	O U	se Policy NAT				
Source Host	Wetwork					
		Interface: IP Address: Mask:	inside 10.0.0.0 255.0.0.0			
			Browse	l juni		
						NAT Options
Translate Ad O 1 S	Idress To — Static I Redirect p	IP Address: ort	[]	
Translate Ad	Idress To — Static Redirect p • TOP • UDP	IP Address: ort Original port		Translated	port.	
Translate Ad	Idress To — Static Redirect p © TCP © UDP Dynamic	IP Address: ort Original port Address Pool:	1	Translated	port Manage	Pools
Translate Ad	Idress To — Static Redirect p © TCP © UDP Dynamic Pool ID	IP Address: ort Original port Address Pool:	1 A	Translated	port. Manage	Pools
Translate Ad	Idress To — Static Redirect p © TOP © UDP Dynamic Pool ID	IP Address: ort Original port Address Pool: 172.16.1.4 172.16.1.5-177	1 1 16 1 10	Translated	port. Manage	Pools

17. El tecleo **se aplica** para avanzar la regla configurada NAT al PIX.

	Configuration	> NAT > Trans	lation Rules				
, [• 主节	C 1 1 %	₽ 6 6 6 6 4				
erfaces	Enable	a traffic through	the firewall without addres	s franslation:			
ilu Daleur	• Transf	ation Rules	C Translation Exen	nption Rules			
34	Charu Du	las for interface		Chautt			
NAT	Show Ru	les for interlace	All Interfaces	SHOW AI			-
03	Rulé		Original			Translated	Ad
VPN	Туре	Interface	Source Network	Destination Network	Interface	Address	Ec
1 <u>28</u>	- 62	inside	⊈ [©] 10.0.0.0/8	🦘 any	outside	172.16.1.4	Del
outing						172.10.1.9-172.10.1.10	
88							
al Objects							
3							
perties							
perties							
P perties							
iperties							

 En este ejemplo, se utilizan las Static rutas. La encaminamiento del tecleo, elige la Static ruta y el haga click en Add

Cisco ASDM 5.1	l for PIX - 10.1.1.1							
File Rules Sea	arch Options Tools Wizard	is Help						
Home C	onfiguration Montoring	Back For	ward Seard	n Retres	h Save	? Help		CISCO SYSTEMS
Interfaces	Configuration - Rouling - Rou	uting > Static Rol Static Route Specify static Interface	routes.	Netmask	Gateway IP	Metric	Tunneled	Add Edit Defete
				Ac	ery	Reset		
				Isadmina	INA (15)	1 286	a la	7(11(06 7:45:00 PM LITC)

19. Configure el default gateway y haga clic la

	📬 Add Static Route		×
	Interface Name:	outside 💌	
	IP Address:	0.0.0.0	
	Mask:	0.0.0.0	
	Gateway IP:	172.16.1.2	
	Metric	1	
	C Tunneled (Used	only for default route)	
AUTORIZACIÓN.	ок	Cancel Help	

20. El tecleo agrega y agrega las rutas a las redes

	付 Add Static Rou	te			×
	Interface N	ame:	inside	•	
	IP Address	:	10.2.1.0		
	Mask:		255.255.255.0	•	
	Gateway IP	:	10.1.1.2		
	Metric		1		
	C Tunneled	(Used o	nly for default rout	e)	
internas	0К		Cancel	Help	
Add	Static Route			×	
l	nterface Name:	inside			
I	P Address:	10.3.1.	0		
٩	Mask:	255.25	5.255.0 💌		
¢	Gateway IP:	10.1.1.	2		
¢	Metric	1			
C	Tunneled (Used o	inly for de	fault route)		
	ок	Cancel	Help		

21. Confirme que las rutas correctas están configuradas y el tecleo **se aplica**.

File Rules S	5.1 for PIX - 10.1.1.1 earch Options Tools Wizard	ds Help						×
S Home	Configuration Monitoring	Back For) Q ward Sear	ch Refresh	Save	? Help		CISCO SYSTEMS
Interfaces Interfaces Security Policy NAT Security Policy NAT Security Properties	Configuration > Routing > Ro	uting > Static Roo Static Route - Specify static interface outside inside inside inside	noutes. IP Address 0.0.0 10.2.1.0 10.3.1.0	Netmask 0.0.0.0 255.255.255.0 255.255.255.0	Gateway IP 172.16.1.2 10.1.1.2 10.1.1.3	Metric 1 1	Tunneler No NA NA	Add Edit Delete
				<admin></admin>	NA (15)		6 7/11	/06 7:48:40 PM UTC

Configuración PIX usando el CLI

La configuración vía el ASDM GUI es completa ahora.

Usted puede ver esta configuración vía el CLI:

```
Dispositivo de seguridad CLI PIX
pixfirewall(config)#write terminal
PIX Version 7.0(0)102
names
interface Ethernet0
nameif outside
security-level 0
ip address 172.16.1.1 255.255.255.0
!
interface Ethernet1
nameif inside
security-level 100
ip address 10.1.1.1 255.255.255.0
!--- Assign name and IP address to the interfaces enable
password 2KFQnbNIdI.2KYOU encrypted passwd
2KFQnbNIdI.2KYOU encrypted asdm image
flash:/asdmfile.50073 no asdm history enable arp timeout
14400 nat-control
!--- Enforce a strict NAT for all the traffic through
the Security appliance global (outside) 1 172.16.1.5-
```



Elija la **configuración corriente del archivo > de la demostración en la nueva ventana** para ver la configuración CLI en el ASDM.

File Rules Search Options Tools Wizards Help							
Refresh ASDM with the Running Configuration on the Device Reset Device to the Factory Default Configuration							
Show Running Configuration in New Window							
Save Running Configuration to Flash Save Running Configuration to TFTP Server Save Running Configuration to Standby Unit Save Internal Log Buffer to Flash							
Print							
Clear ASDM Cache Clear Internal Log Buffer							
Exit							

Verificación

Actualmente, no hay un procedimiento de verificación disponible para esta configuración.

Troubleshooting

Comandos para resolución de problemas

La herramienta Output Interpreter Tool (clientes registrados solamente) (OIT) soporta ciertos comandos show. Utilice la OIT para ver un análisis del resultado del comando show.

Nota: Consulte <u>Información Importante sobre Comandos de Debug</u> antes de usar un **comando debug**.

- debug icmp trace Muestra si las solicitudes ICMP desde los hosts alcanzan al PIX. Para ejecutar este debug, usted necesita agregar el comando access-list de permitir el ICMP en su configuración.
- debugging de memoria intermedia de registro Muestra las conexiones que se establecen y se niegan a los host que pasan con el PIX. La información se salva en el búfer del registro PIX y usted puede ver la salida con el comando show log.

Procedimiento de Troubleshooting

El ASDM se puede utilizar para habilitar el registro, y también para ver los registros:

 Elija la configuración > las propiedades > el registro > la configuración del registro, marque el registro del permiso, y el tecleo se aplica

Cisco ASDM S	5.1 for PIX - 10.1.1.1					_ D ×
File Rules S	sarch Options Tools Wizard	s Help	0 0		3	Cisco Systems
Home	Configuration Montoring	Back Forward	Search Refres	h Save	б Неф	antlina attina.
Hierisces Security Policy NAT WPN Routing Global Objects Properties	Configuration > Properties > L Startup Wizard AAA Setup AAA Setup AATI-Spoofing AAP Auto Update Certificate Cerificate Certificate Certificate Cerificate Certific	ogging > Logging Setur Logging Setur I Enable loggin I Enable loggin I Send debug i Logging to Interr Specify the size of be overwritten. Buffer Size: 4 You can choose Save Buffer To: ASDM Logging Specify the size of Queue Size: 1	Image: set of the internal buffer of the internal buffer of the internal buffer og6 bytes to save the buffer co Image: FTP Server Image: FTP Serve	I E Is I S Intents before the Configure FTR Configure Flas Intended for vi ply	nable logging on end syslogs in E will be saved. Wh buffer is overwrit ? Settings sh Usage lewing in ASDM. Reset	the failover standby unit MBLEM format ien the buffer fills up, it will ten.

2. Elija la supervisión > el registro > el búfer del registro > el nivel de registro y elija memoria

intermedia de registro de la lista desplegable. Haga clic la visión.

Elsco ASDM 5.1	I for PIX 10.1.1.1	ards Help		<u>11</u>	<u>1</u>	×
esta de la companya d	Configuration Monitoring	Back Forwa	rd Search	Refresh Save	? Нер	CISCO SYSTEMS
Interfacess VFN Routing Properties	Montforing > Logging > Log Real-time Log Views	Eunter Log Buffer Click ASDN or hig	the Yiew button bel I as of now. Select her. Logging Level:	ow to display systo the desired logging Debugging View	g messages in the lo level to see messag	rgging buffer for les at that severity

3. Aquí está un ejemplo del búfer del registro:

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Incapaz de acceder los sitios web por nombre

En ciertos escenarios, las redes internas no pueden acceder los sitios web de Internet usando el nombre (trabajos con la dirección IP) en el buscador Web. Este problema es común y ocurre generalmente si no definen al servidor DNS, especialmente en caso de que el PIX/ASA es el servidor DHCP. También, esto puede ocurrir en los casos si el PIX/ASA no puede avanzar al servidor DNS o si el servidor DNS no es accesible.

Información Relacionada

- Dispositivos de seguridad Cisco PIX de la serie 500
- <u>Cisco ASA 5500 Series Adaptive Security Appliances</u>
- <u>Referencias de Comandos de Cisco Secure PIX Firewall</u>
- <u>Cisco Adaptive Security Device Manager</u>
- Alertas y Troubleshooting de Cisco Adaptive Security Device Manager (ASDM)
- Solicitudes de Comentarios (RFC)
- Soporte Técnico y Documentación Cisco Systems