Configurar um túnel IPSec entre um ponto de verificação NG e um roteador

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Introduction

Esse documento demonstra como formar um túnel de IPSec com chaves pré-compartilhadas para unir duas redes privadas:

- A rede privada 172.16.15.x dentro do roteador.
- A rede privada 192.168.10.x dentro da próxima geração (NG) do CheckpointTM

Prerequisites

Requirements

Os procedimentos descritos neste documento são baseados nestes pressupostos.

- A política básica ^{CheckpointTM} NG é configurada.
- Todas as configurações de acesso, Network Address Translation (NAT) e roteamento são configuradas.
- Tráfego de dentro do roteador e de dentro do CheckpointTM NG para os fluxos de Internet.

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- Cisco 1751 Router
- Software Cisco IOS® (C1700-K9O3SY7-M), versão 12.2(8)T4, SOFTWARE RELEASE (fc1)
- CheckpointTM NG Build 50027

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Diagrama de Rede

Este documento utiliza a seguinte configuração de rede:



Conventions

Para obter mais informações sobre convenções de documento, consulte as <u>Convenções de dicas</u> <u>técnicas Cisco</u>.

Configurar o Cisco 1751 VPN Router

Roteador Cisco VPN 1751
version 12.2
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
hostname sv1-6
memory-size iomem 15
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
mmi snmp-timeout 180
ip subnet-zero
no ip domain-lookup
ip audit notify log
ip audit po max-events 100
<pre>! Internet Key Exchange (IKE) configuration. crypto</pre>
isakmp policy 1
encr 3des
hash md5
authentication pre-share

```
group 2
 lifetime 1800
 --- IPSec configuration. crypto isakmp key aptrules
address 209.165.202.129
1
crypto ipsec transform-set aptset esp-3des esp-md5-hmac
!
crypto map aptmap 1 ipsec-isakmp
 set peer 209.165.202.129
 set transform-set aptset
 match address 110
1
interface Ethernet0/0
 ip address 209.165.202.226 255.255.255.224
 ip nat outside
 half-duplex
 crypto map aptmap
interface FastEthernet0/0
 ip address 172.16.15.1 255.255.255.0
 ip nat inside
 speed auto
!--- NAT configuration. ip nat inside source route-map
nonat interface Ethernet0/0 overload
ip classless
ip route 0.0.0.0 0.0.0.0 209.165.202.225
no ip http server
ip pim bidir-enable
!--- Encryption match address access list. access-list
110 permit ip 172.16.15.0 0.0.0.255 192.168.10.0
0.0.0.255
!--- NAT access list. access-list 120 deny ip
172.16.15.0 0.0.0.255 192.168.10.0 0.0.0.255
access-list 120 permit ip 172.16.15.0 0.0.0.255 any
route-map nonat permit 10
 match ip address 120
line con 0
 exec-timeout 0 0
line aux 0
line vty 0 4
 password cisco
login
end
```

Configurar o ponto de verificação NG

O ^{CheckpointTM} NG é uma configuração orientada a objeto. Os objetos e regras de rede são definidos para compor a política relacionada à configuração de VPN a ser configurada. Essa política é então instalada usando o ^{CheckpointTM} NG Policy Editor para concluir o lado NG do ^{CheckpointTM} da configuração da VPN.

 Crie a sub-rede de rede da Cisco e a sub-rede ^{CheckpointTM} NG como objetos de rede. Isto é o que está criptografado. Para criar os objetos, selecione Gerenciar > Objetos de Rede e, em seguida, selecione Novo > Rede. Insira as informações de rede apropriadas e clique em OK.Esses exemplos mostram uma configuração de objetos chamada CP_Network e

	Network Properties - CP_Network
	General NAT
	Name: CP_Network
	IP Address: 192.168.10.0
	Net Mask: 255.255.255.0
	Comment:
	Color:
	Broadcast address:
	Included O Not included
Cisco Notwork	OK Cancel Help
OIGCO_INCLINOIR.L	

Network Properties - Cisco_Network
General NAT
Name: Cisco_Network
IP Address: 172.16.15.0
Net Mask: 255.255.255.0
Comment:
Color:
Broadcast address: Included Not included
OK Cancel Help

2. Crie os objetos Cisco_Router e Checkpoint_NG como objetos da estação de trabalho. Esses são os dispositivos VPN. Para criar os objetos, selecione Gerenciar > Objetos de Rede e, em seguida, selecione Novo > Estação de Trabalho.Observe que você pode usar o objeto de estação de trabalho ^{CheckpointTM} NG criado durante a configuração ^{CheckpointTM} NG inicial. Selecione as opções para definir a estação de trabalho como Gateway e Interoperable VPN Device.Esses exemplos mostram uma configuração de objetos chamada chef e Cisco_Router.

Workstation Properties -	chef 🔀
General Topology NAT VPN Authentication Management T Advanced	General Name: Chef IP Address: 209.165.202.129 Get address Comment: CP_Server Color: Color: Color: Type: Host Gateway Check Point Products Check Point products installed: VPN-1 & FireWall-1 FloodGate-1 Policy Server Primary Management Station
	Object Management Image: Managed by this Management Server (Internal) Image: Managed by another Management Server (External) Secure Internal Communication Image: Communication Image: DN: Image: Communication Properable VPN Device Image: OK Image: OK Image: OK Image: OK Image: OK Image: OK

Workstation Properties - C	lisco_Router	×
General	General	
NAT	Name: Cisco_Router	
Advanced	Comment: Cisco_VPN_Router	
	Color:	
	Type: C Host 💿 Gateway	
	Check Point Products	,
	Check Point products installed: Version NG Get Version	ion
	□VPN-1 & FireWall-1 □FloodGate-1 □Policy Server □Secondary Management Station	-
	Object Management	
	C Managed by this Management Server (Internal)	
	C Managed by another Management Server (External)	
	Interoperable VPN Device	
	OK Cancel	Help

3. Configure o IKE na guia VPN e clique em **Editar**.

Workstation Properties -	chef	×
General Topology NAT VPN Authentication Management € Advanced	VPN Encryption schemes Image: Image	
	Nickname DN Certificate Authority	
	Add Edit Remove	
	UK Cancel He	lp

4. Configure a política de troca de chaves e clique em Editar

IKE Properties	×
General	
Support key exchange encryption with:	
Support authentication methods:	
Pre-Shared Secret Edit Secrets	
Public Key Signatures Specify	
VPN-1 & FireWall-1 authentication for SecuRemote (Hybrid Mode)	
	J
Advanced]
OK Cancel Help	

- segredos.
- 5. Defina as chaves pré-compartilhadas a serem usadas e clique em **OK** várias vezes até que as janelas de configuração

Shared Secret	x
Shared Secrets List:	
Peer Name Shared Secret	
	Edit
	Remove
Enter secret: aptrules Set	
OK Cancel	Help

desapareçam.

6. Selecione Regras > Adicionar Regras > Superior para configurar as regras de criptografia para a política. A regra na parte superior é a primeira regra executada antes de qualquer outra regra que possa ignorar a criptografia. Configure a origem e o destino para incluir o CP_Network e o Cisco_Network, como mostrado aqui. Depois de adicionar a seção Criptografar ação da regra, clique com o botão direito do mouse em Ação e selecione Editar propriedades.

III Sec	curity - APTPolicy 🗮 /	Address Translation - AP	TPolicy 📴 Deskto	op Security - St	andard			
NO.	SOURCE	DESTINATION	SERVICE	ACT	TION	TRACK	INSTALL ON	
1	부 CP_Network 부 Cisco_Network	부 CP_Network 부 Cisco_Network	* Any	😡 Encry	pt Edit com	E Log	Gateways	🖈 An
2	* Any	🗙 Any	🗙 Any	🖲 drop	Add End	ryption	Gateways	\star An
• Nar	me	IP	Comment		 drop drop reject Unser å 			Þ
🖺 che 🔲 Cis	if co_Router	209.165.3 209.165.3	102.129 CP_Serve 102.226 Cisco_VPM	er N_Router	Clent / Clent / Sessio Encryp Clent 8	Auth In Auth In Forypt		
					Query C Clear Qu	iolumn		-

7. Com o IKE selecionado e realçado, clique em

	Encryption Properties
	General Encryption schemes defined: C RE C RE FVVZ
	E dit
ar.L	OK Cancel Help

8. Confirme a configuração

IKE Properties		×
General		
Transform		
Encryption + Data Integrit	y (ESP)	
C Data Integrity Only (AH)		
Encryption Algorithm:	3DES 💌	
Data Integrity	MD5	
Compression method:	None	
Allowed Peer Gateway:	Cisco_Router	
Use Perfect Forward Secrecy		-
Use DH Group:	Group 1 (768 bit)	
Perform IP Pool NAT		
OK Ca	ncel Help	

9. Um dos principais problemas com a execução de VPN entre dispositivos Cisco e outros dispositivos IPSec é a renegociação de troca de chaves. Certifique-se de que a configuração para a troca IKE no roteador Cisco seja exatamente a mesma que a configurada no CheckpointTM NG.Observação: o valor real desse parâmetro depende de sua política de segurança corporativa específica.Neste exemplo, a configuração de IKE no roteador foi definida para 30 minutos com o comando lifetime 1800. O mesmo valor tem de ser definido no CheckpointTM NG.Para definir esse valor no CheckpointTM NG, selecione Gerenciar objeto de rede, selecione o objeto NG CheckpointTM e clique em Editar. Em seguida, selecione VPN e edite o IKE. Selecione Avançar e configure os parâmetros de rechaveamento. Depois de configuração da Renegociação de troca de chaves para o objeto de rede Cisco_Router.Observação: certifique-se de que o grupo Diffie-Hellman correto esteja selecionado para corresponder ao configurado no

Advanced IKE properties			×
Use UDP encapsulation —			
	UDP. VPN1_I	PSEC_encapsi 💌	
Support Diffie-Hellman groups			
	Group 1 (7	'68 bit)	
	Group 2 (1	U24 bit) 536 bit)	
		555 Bitj	
Rekeying Parameters			
Renegotiate IKE security a	ssociations	30 🕂	Minutes
Renegotiate IPSEC Securit	ty associations every	3600 🛨	Seconds
Renegotiate IPSEC Se	curity associations ev	/ery 50000 🚊	KBytes
Misc			
Support IP compression	n for SecureClient		
Support aggresive mod	le		
Support key exchange	for subnets		
	0 1 1		
UK	Cancel	Help	
lor.			

 A configuração da política está concluída. Salve a diretiva e selecione Policy > Install (Política > Instalar) para ativála.

ld.					
🖀 chef - Check Point Policy Edit	or - APTPolicy				
File Edit View Manage Rules	Policy Topology Search Window	Help			
	Verify	° = " = × •	54 1 St		
	Install				
] 📲 📰 🖓 🖓 🖬	Uninstall				
₽ 🔄 🔍 🕲 🖪 🗠 📀	Access Lists	Address Translation - APTPolicy			
E Letwork Objects	Install Users Database				
Workstation	Management High Availability	DESTINATION			
Cisco_Router	Global Properties	부 Cisco_Network 부 CP_Network	* Any		
Cisco_Network	2 * Any	* Any	🗙 Any		

A janela de instalação exibe notas de progresso à medida que a política é compilada.

Install Policy	×
APTPolicy.W: Security Policy Script generated into APTPolicy.pf APTPolicy: Compiled OK.	<u> </u>
Abort	Quand

o a janela de instalação indicar que a instalação da diretiva está concluída, clique em **Fechar** para concluir o

procedimento.	
Install Policy	×
APTPolicy.W: Security Policy Script generated into APTPolicy.pf APTPolicy: Compiled OK.	<u>^</u>
Installing VPN-1/FireWall-1 policy On: chef	
VPN-1/FireWall-1 policy installed successfully on chef	
VPN-1/FireWall-1 policy installation complete	
	T
	F
Close	

Verificar

Esta seção fornece informações que você pode usar para confirmar se sua configuração está funcionando adequadamente.

Verificar o roteador Cisco

A <u>Output Interpreter Tool (somente clientes registrados) oferece suporte a determinados</u> comandos show, o que permite exibir uma análise da saída do comando show.

- show crypto isakmp sa Exibe todas as associações de segurança atuais (SAs) de IKE em um peer.
- show crypto ipsec sa Exibe as configurações usadas pelas SAs atuais.

Verificar o ponto de verificação NG

Para visualizar os registros, selecione Janela > Visualizador de registros.

File	The Made Edit Selection Viewer - [fw.log]							<u>ID X</u>			
65	🖉 🖬 🛛	og	• = A • +	£	1	E =	🖩 🇞 🗰 °	€ <u>8</u> €			
No.	Date	Time	Product	Inter.	Origin	Турс	Action	Service	Source	Destination	Proto.
4	18Jul2002	12.41:12	VPN-1 8 FireWal-1	📑 dae	. chet	🔳 log	Ow key instal		chef	Cisco_Router	
5	18Jul2002	12:41:13	VPN-1 8 FireWall-1	💽 dae	. chet	🔳 log	0- key instal		chef	Gisco_Router	
6	18Jul2002	12:41:13	VPN-1 & FireWall-1	💽 EL9	. chef	log	🔤 encrypt	teinet	GARRISON	Cisco_Router	top

Para exibir o status do sistema, selecione Janela > Status do sistema.

Chef - Check Point System State File View Modules Products Tools	us Window Help		_D×
) D 🗉 🙈 🔲 🔌 🗰 🖇	🖌 🔜 🖻 🎯 🙊	k?	
Modules	IP Address	VPN-1 Details	
🖃 📝 chef		Status:	ок
⊜- 📑 chef	209.165.202.12	Packets	
FireWal-1		Encrypted:	38
Management		Decrypted:	37
SVN Foundation		Errors	
		Encryption errors:	0
		Decryption errors:	0
		IKE events errors:	0
		Hardware	
		HW Vendor Name:	none
		HW Status:	none

Troubleshoot

Cisco Router

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

Para obter informações adicionais sobre solução de problemas, consulte <u>Solução de problemas</u> de segurança de IP - Entendendo e usando comandos debug.

Observação: antes de inserir o comando **debug**, consulte <u>Informações importantes sobre os</u> <u>comandos debug</u>.

- debug crypto engine Exibe mensagens de depuração sobre mecanismos de criptografia, que executam criptografia e descriptografia.
- debug crypto isakmp Exibe mensagens sobre eventos de IKE.
- debug crypto ipsec Exibe eventos de IPSec.
- clear crypto isakmp Limpa todas as conexões IKE ativas.
- clear crypto sa Limpa todas as SAs de IPSec.

Saída bem-sucedida do log de depuração

```
18:05:32: ISAKMP (0:0): received packet from
  209.165.202.129 (N) NEW SA
18:05:32: ISAKMP: local port 500, remote port 500
18:05:32: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER,
  IKE_MM_EXCH
Old State = IKE_READY New State = IKE_R_MM1
18:05:32: ISAKMP (0:1): processing SA payload. message ID = 0
18:05:32: ISAKMP (0:1): processing vendor id payload
18:05:32: ISAKMP (0:1): vendor ID seems Unity/DPD
  but bad major
18:05:32: ISAKMP (0:1): found peer pre-shared key
  matching 209.165.202.129
18:05:32: ISAKMP (0:1): Checking ISAKMP transform 1
  against priority 1 policy
18:05:32: ISAKMP: encryption 3DES-CBC
18:05:32: ISAKMP: hash MD5
18:05:32: ISAKMP: auth pre-share
18:05:32: ISAKMP: default group 2
18:05:32: ISAKMP: life type in seconds
18:05:32: ISAKMP: life duration (VPI) of 0x0 0x0 0x7 0x8
18:05:32: ISAKMP (0:1): atts are acceptable. Next payload is 0
18:05:33: ISAKMP (0:1): processing vendor id payload
18:05:33: ISAKMP (0:1): vendor ID seems Unity/DPD but bad major
18:05:33: ISAKMP (0:1): Input = IKE_MESG_INTERNAL,
  IKE_PROCESS_MAIN_MODE
Old State = IKE_R_MM1 New State = IKE_R_MM1
18:05:33: ISAKMP (0:1): sending packet to 209.165.202.129 (R)
  MM_SA_SETUP
18:05:33: ISAKMP (0:1): Input = IKE_MESG_INTERNAL,
  IKE_PROCESS_COMPLETE
Old State = IKE_R_MM1 New State = IKE_R_MM2
18:05:33: ISAKMP (0:1): received packet from 209.165.202.129 (R)
  MM_SA_SETUP
18:05:33: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER,
  IKE_MM_EXCH
Old State = IKE_R_MM2 New State = IKE_R_MM3
18:05:33: ISAKMP (0:1): processing KE payload.
  message ID = 0
18:05:33: ISAKMP (0:1): processing NONCE payload.
  message ID = 0
18:05:33: ISAKMP (0:1): found peer pre-shared key
  matching 209.165.202.129
18:05:33: ISAKMP (0:1): SKEYID state generated
18:05:33: ISAKMP (0:1): Input = IKE_MESG_INTERNAL,
  IKE_PROCESS_MAIN_MODE
Old State = IKE_R_MM3 New State = IKE_R_MM3
18:05:33: ISAKMP (0:1): sending packet to 209.165.202.129 (R)
  MM_KEY_EXCH
18:05:33: ISAKMP (0:1): Input = IKE_MESG_INTERNAL,
  IKE PROCESS COMPLETE
Old State = IKE_R_MM3 New State = IKE_R_MM4
18:05:33: ISAKMP (0:1): received packet from 209.165.202.129 (R)
```

MM_KEY_EXCH 18:05:33: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER, IKE_MM_EXCH Old State = IKE_R_MM4 New State = IKE_R_MM5 18:05:33: ISAKMP (0:1): processing ID payload. message ID = 018:05:33: ISAKMP (0:1): processing HASH payload. message ID = 018:05:33: ISAKMP (0:1): SA has been authenticated with 209.165.202.129 18:05:33: ISAKMP (0:1): Input = IKE_MESG_INTERNAL, IKE_PROCESS_MAIN_MODE Old State = IKE_R_MM5 New State = IKE_R_MM5 18:05:33: ISAKMP (0:1): SA is doing pre-shared key authentication using id type ID_IPV4_ADDR 18:05:33: ISAKMP (1): ID payload next-payload : 8 type : 1 protocol : 17 port : 500 length : 8 18:05:33: ISAKMP (1): Total payload length: 12 18:05:33: ISAKMP (0:1): sending packet to 209.165.202.129 (R) QM_IDLE 18:05:33: ISAKMP (0:1): Input = IKE_MESG_INTERNAL, IKE_PROCESS_COMPLETE Old State = IKE_R_MM5 New State = IKE_P1_COMPLETE 18:05:33: ISAKMP (0:1): Input = IKE_MESG_INTERNAL, IKE_PHASE1_COMPLETE Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE 18:05:33: ISAKMP (0:1): received packet from 209.165.202.129 (R) OM IDLE 18:05:33: ISAKMP (0:1): processing HASH payload. message ID = -1335371103 18:05:33: ISAKMP (0:1): processing SA payload. message ID = -133537110318:05:33: ISAKMP (0:1): Checking IPSec proposal 1 18:05:33: ISAKMP: transform 1, ESP_3DES 18:05:33: ISAKMP: attributes in transform: 18:05:33: ISAKMP: SA life type in seconds 18:05:33: ISAKMP: SA life duration (VPI) of 0x0 0x0 0xE 0x10 18:05:33: ISAKMP: authenticator is HMAC-MD5 18:05:33: ISAKMP: encaps is 1 18:05:33: ISAKMP (0:1): atts are acceptable. 18:05:33: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 209.165.202.226, remote= 209.165.202.129, local_proxy= 172.16.15.0/255.255.255.0/0/0 (type=4), remote_proxy= 192.168.10.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4 18:05:33: ISAKMP (0:1): processing NONCE payload. message ID = -133537110318:05:33: ISAKMP (0:1): processing ID payload. message ID = -1335371103 18:05:33: ISAKMP (0:1): processing ID payload. message ID = -1335371103 18:05:33: ISAKMP (0:1): asking for 1 spis from ipsec 18:05:33: ISAKMP (0:1): Node -1335371103, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH Old State = IKE_QM_READY New State = IKE_QM_SPI_STARVE 18:05:33: IPSEC(key_engine): got a queue event... 18:05:33: IPSEC(spi_response): getting spi 2147492563 for SA

```
from 209.165.202.226 to 209.165.202.129 for prot 3
18:05:33: ISAKMP: received ke message (2/1)
18:05:33: ISAKMP (0:1): sending packet to
   209.165.202.129 (R) QM_IDLE
18:05:33: ISAKMP (0:1): Node -1335371103,
   Input = IKE_MESG_FROM_IPSEC, IKE_SPI_REPLY
Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2
18:05:33: ISAKMP (0:1): received packet
   from 209.165.202.129 (R) QM_IDLE
18:05:33: ISAKMP (0:1): Creating IPSec SAs
18:05:33: inbound SA from 209.165.202.129 to 209.165.202.226
   (proxy 192.168.10.0 to 172.16.15.0)
18:05:33: has spi 0x800022D3 and conn_id 200 and flags 4
18:05:33: lifetime of 3600 seconds
18:05:33: outbound SA from 209.165.202.226 to 209.165.202.129
   (proxy 172.16.15.0 to 192.168.10.0 )
18:05:33: has spi -2006413528 and conn_id 201 and flags C
18:05:33: lifetime of 3600 seconds
18:05:33: ISAKMP (0:1): deleting node -1335371103 error
  FALSE reason "quick mode done (await()"
18:05:33: ISAKMP (0:1): Node -1335371103, Input = IKE_MESG_FROM_PEER,
  IKE_QM_EXCH
Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE
18:05:33: IPSEC(key_engine): got a queue event...
18:05:33: IPSEC(initialize_sas): ,
(key eng. msg.) INBOUND local= 209.165.202.226,
  remote=209.165.202.129,
local_proxy= 172.16.15.0/255.255.255.0/0/0 (type=4),
remote_proxy= 192.168.10.0/255.255.255.0/0/0 (type=4),
protocol= ESP, transform= esp-3des esp-md5-hmac ,
  lifedur= 3600s and 0kb,
spi= 0x800022D3(2147492563), conn_id= 200, keysize= 0,
  flags= 0x4
18:05:33: IPSEC(initialize_sas): ,
(key eng. msg.) OUTBOUND local= 209.165.202.226,
   remote=209.165.202.129,
local_proxy= 172.16.15.0/255.255.255.0/0/0 (type=4),
remote_proxy= 192.168.10.0/255.255.255.0/0/0 (type=4),
protocol= ESP, transform= esp-3des esp-md5-hmac ,
  lifedur= 3600s and 0kb,
spi= 0x88688F28(2288553768), conn_id= 201, keysize= 0,
  flags = 0xC
18:05:33: IPSEC(create_sa): sa created,
(sa) sa_dest= 209.165.202.226, sa_prot= 50,
sa_spi= 0x800022D3(2147492563),
sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 200
18:05:33: IPSEC(create_sa): sa created,
(sa) sa_dest= 209.165.202.129, sa_prot= 50,
sa_spi= 0x88688F28(2288553768),
sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 201
18:05:34: ISAKMP (0:1): received packet
  from 209.165.202.129 (R) QM_IDLE
18:05:34: ISAKMP (0:1): phase 2 packet is a duplicate
   of a previous packet.
18:05:34: ISAKMP (0:1): retransmitting due to retransmit phase 2
18:05:34: ISAKMP (0:1): ignoring retransmission, because phase2
  node marked dead -1335371103
18:05:34: ISAKMP (0:1): received packet
  from 209.165.202.129 (R) QM_IDLE
18:05:34: ISAKMP (0:1): phase 2 packet is a duplicate
   of a previous packet.
```

18:05:34: ISAKMP (0:1): retransmitting due to retransmit phase 2 18:05:34: ISAKMP (0:1): ignoring retransmission, because phase2 node marked dead -1335371103 sv1-6#show crypto isakmp sa dst src state conn-id slot 209.165.202.226 209.165.202.129 QM_IDLE 1 0 sv1-6#show crypto ipsec sa interface: Ethernet0/0 Crypto map tag: aptmap, local addr. 209.165.202.226 local ident (addr/mask/prot/port): (172.16.15.0/255.255.255.0/0/0) remote ident (addr/mask/prot/port): (192.168.10.0/255.255.255.0/0/0) current_peer: 209.165.202.129 PERMIT, flags={origin_is_acl,} #pkts encaps: 21, #pkts encrypt: 21, #pkts digest 21 #pkts decaps: 24, #pkts decrypt: 24, #pkts verify 24 #pkts compressed: 0, #pkts decompressed: 0 #pkts not compressed: 0, #pkts compr. failed: 0, #pkts decompress failed: 0 #send errors 0, #recv errors 0 local crypto endpt.: 209.165.202.226, remote crypto endpt.: 209.165.202.129 path mtu 1500, media mtu 1500 current outbound spi: 88688F28 inbound esp sas: spi: 0x800022D3(2147492563) transform: esp-3des esp-md5-hmac , in use settings ={Tunnel, } slot: 0, conn id: 200, flow_id: 1, crypto map: aptmap sa timing: remaining key lifetime (k/sec): (4607997/3559) IV size: 8 bytes replay detection support: Y inbound ah sas: inbound pcp sas: outbound esp sas: spi: 0x88688F28(2288553768) transform: esp-3des esp-md5-hmac , in use settings ={Tunnel, } slot: 0, conn id: 201, flow_id: 2, crypto map: aptmap sa timing: remaining key lifetime (k/sec): (4607997/3550) IV size: 8 bytes replay detection support: Y outbound ah sas: outbound pcp sas:

sv1-6#show crypto engine conn act ID Interface IP Address State Algorithm Encrypt Decrypt 1 Ethernet0/0 209.165.202.226 set HMAC_MD5+3DES_56_C 0 0 200 Ethernet0/0 209.165.202.226 set HMAC_MD5+3DES_56_C 0 24 201 Ethernet0/0 209.165.202.226 set HMAC_MD5+3DES_56_C 21 0

Informações Relacionadas

- Página de suporte do IPSec
- <u>Suporte Técnico Cisco Systems</u>