เฉลยแล็ป Packet Activity

CCNA LAB 4-8: Virtual Private Network (VPN) IIUU IPsec (Site-to-Site)

[ตั้งค่าที่ Ranet BR (คลิกที่เครื่อง console)] :

(ไปยังแท๊บ Desktop > คลิก Terminal > กด OK)

Ranet-BR>en

Ranet-BR#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Ranet-BR(config)#int fa0/0

Ranet-BR(config-if)#no sh

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

Ranet-BR(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Ranet-BR(config-if)#ip add 192.168.1.1 255.255.255.240

Ranet-BR(config-if)#ip nat inside

Ranet-BR(config-if)#int s0/0/0

Ranet-BR(config-if)#no sh

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

Ranet-BR(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

Ranet-BR(config-if)#ip add 202.170.100.30 255.255.255.252

Ranet-BR(config-if)#ip nat outside

Ranet-BR(config-if)#exit

Ranet-BR(config)#ip route 0.0.0.0 0.0.0.0 s0/0/0

Ranet-BR(config)#access-list 100 deny ip 192.168.1.0 0.0.0.15 192.168.0.0 0.0.0.255

Ranet-BR(config)#access-list 100 permit ip 192.168.1.0 0.0.0.15 any

Ranet-BR(config)#ip nat pool Ranet 202.170.100.9 202.170.100.14 netmask 255.255.255.248

Ranet-BR(config)#ip nat inside source list 100 pool Ranet overload

Ranet-BR(config)#crypto isakmp policy 101

Ranet-BR(config-isakmp)#encryption aes 128

Ranet-BR(config-isakmp)#hash sha



Ranet-BR(config-isakmp)#authentication pre-share

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Ranet-BR(config-isakmp)#group 5

Ranet-BR(config-isakmp)#lifetime 86400

Ranet-BR(config-isakmp)#exit

Ranet-BR(config)#crypto isakmp key ranetypnpass address 202.170.100.130

Ranet-BR(config)#access-list 101 permit ip 192.168.1.0 0.0.0.15 192.168.0.0 0.0.0.255

Ranet-BR(config)#crypto ipsec transform-set Ranet esp-aes esp-sha-hmac

Ranet-BR(config)#crypto map Site-to-Site 101 ipsec-isakmp

% NOTE: This new crypto map will remain disabled until a peer

and a valid access list have been configured.

Ranet-BR(config-crypto-map)#set peer 202.170.100.130

Ranet-BR(config-crypto-map)#set transform-set Ranet

Ranet-BR(config-crypto-map)#match address 101

Ranet-BR(config-crypto-map)#exit

Ranet-BR(config)#int s0/0/0

Ranet-BR(config-if)#crypto map Site-to-Site

*Jan 3 07:16:26.785: %CRYPTO-6-ISAKMP_ON_OFF: ISAKMP is ON

Ranet-BR(config-if)#end

Ranet-BR#

%SYS-5-CONFIG_I: Configured from console by console

Ranet-BR#sh crypto isakmp policy

Global IKE policy

Protection suite of priority 101

encryption algorithm: AES - Advanced Encryption Standard (128 bit keys).

hash algorithm: Secure Hash Standard

authentication method: Pre-Shared Key

Diffie-Hellman group: #5 (1536 bit)

lifetime: 86400 seconds, no volume limit

Default protection suite

encryption algorithm: DES - Data Encryption Standard (56 bit keys).

hash algorithm: Secure Hash Standard

authentication method: Rivest-Shamir-Adleman Signature

Diffie-Hellman group: #1 (768 bit)

lifetime: 86400 seconds, no volume limit

Ranet-BR#sh crypto ipsec sa



Document No.:

interface: Serial0/0/0 Document No.:

Crypto map tag: Site-to-Site, local addr 202.170.100.30

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protected vrf: (none)

local ident (addr/mask/prot/port): (192.168.1.0/255.255.255.240/0/0)

remote ident (addr/mask/prot/port): (192.168.0.0/255.255.255.0/0/0)

current_peer 202.170.100.130 port 500

PERMIT, flags={origin_is_acl,}

#pkts encaps: 0, #pkts encrypt: 0, #pkts digest: 0

#pkts decaps: 0, #pkts decrypt: 0, #pkts verify: 0

#pkts compressed: 0, #pkts decompressed: 0

#pkts not compressed: 0, #pkts compr. failed: 0

#pkts not decompressed: 0, #pkts decompress failed: 0

#send errors 0, #recv errors 0

local crypto endpt.: 202.170.100.30, remote crypto endpt.:202.170.100.130

path mtu 1500, ip mtu 1500, ip mtu idb Serial0/0/0

current outbound spi: 0x0(0)

inbound esp sas:

inbound ah sas:

inbound pcp sas:

outbound esp sas:

outbound ah sas:

outbound pcp sas:

Ranet-BR#copy run start

Destination filename [startup-config]?

Building configuration...

[OK]

Ranet-BR#





[ไปยังเครื่อง Ranet-Host] :

(ไปยังแท๊บ Desktop > คลิกไอคอน IP Configuration)

IP Address: 192.168.1.14

Subnet Mask: 255.255.255.240

Default Gateway: 192.168.1.1

DNS Server: 202.170.100.54

(ไปยังแท๊บ Desktop > คลิกไอคอน Command Prompt)

Packet Tracer PC Command Line 1.0

PC>ping 192.168.0.7

Pinging 192.168.0.7 with 32 bytes of data:

Request timed out.

Request timed out.

Reply from 192.168.0.7: bytes=32 time=32ms TTL=126

Reply from 192.168.0.7: bytes=32 time=31ms TTL=126

Ping statistics for 192.168.0.7:

Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),

Approximate round trip times in milli-seconds:

Minimum = 31ms, Maximum = 32ms, Average = 31ms

PC>

(ไปยังแท๊บ Desktop > คลิกไอคอน Web Browser)

URL: http://www.ranet.co.th

Output: RANET Co.,Ltd. - Ranet Co.,Ltd. We make iT easy! :)

[ตั้งค่าที่ Ranet BR (คลิกที่เครื่อง console)] :

(ไปยังแท็บ Desktop > คลิก Terminal > กด OK)

Ranet-BR#sh ip nat translations

Pro Inside global Inside local Outside global

udp 202.170.100.9:1025 192.168.1.14:1025 202.170.100.54:53 202.170.100.54:53

tcp 202.170.100.9:1025 192.168.1.14:1025 202.170.100.70:80 202.170.100.70:80



Ranet-BR#sh crypto ipsec sa

interface: Serial0/0/0

Crypto map tag: Site-to-Site, local addr 202.170.100.30

protected vrf: (none)

local ident (addr/mask/prot/port): (192.168.1.0/255.255.255.240/0/0)

remote ident (addr/mask/prot/port): (192.168.0.0/255.255.255.0/0/0)

current_peer 202.170.100.130 port 500

PERMIT, flags={origin_is_acl,}

#pkts encaps: 3, #pkts encrypt: 3, #pkts digest: 0

#pkts decaps: 2, #pkts decrypt: 2, #pkts verify: 0

#pkts compressed: 0, #pkts decompressed: 0

#pkts not compressed: 0, #pkts compr. failed: 0

#pkts not decompressed: 0, #pkts decompress failed: 0

#send errors 1, #recv errors 0

local crypto endpt.: 202.170.100.30, remote crypto endpt.:202.170.100.130

path mtu 1500, ip mtu 1500, ip mtu idb Serial0/0/0

current outbound spi: 0x593A3356(1496986454)

inbound esp sas:

spi: 0x17D06856(399534166)

transform: esp-aes esp-sha-hmac,

in use settings ={Tunnel, }

conn id: 2004, flow_id: FPGA:1, crypto map: Site-to-Site

sa timing: remaining key lifetime (k/sec): (4525504/3502)

IV size: 16 bytes

replay detection support: N

Status: ACTIVE

inbound ah sas:

inbound pcp sas:

outbound esp sas:



spi: 0x593A3356(1496986454)

transform: esp-aes esp-sha-hmac,

in use settings ={Tunnel, }

conn id: 2005, flow_id: FPGA:1, crypto map: Site-to-Site

sa timing: remaining key lifetime (k/sec): (4525504/3502)

IV size: 16 bytes

replay detection support: N

Status: ACTIVE

outbound ah sas:

outbound pcp sas:

Ranet-BR#





Document No.:

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