

# عقوم ىلإ عقوم نم IKEv1 IPsec قافنأ نيوكت ASA ىلإ ع CLI وأ ASDM مادختساب

## تايوت حمل

[عمدق مل](#)

[ةيساسأل تابلطت مل](#)

[تابلطت مل](#)

[عمدختس مل تانوك مل](#)

[نيوكت مل](#)

[ةكبش لىل طي طخت مل مسر مل](#)

[ثدحل ASDM VPN جلاع ربع نيوكت مل](#)

[\(CLI\) رم اوأل رطس ةهجاو ربع نيوكت مل](#)

[ثدحل تارادصل او 8.4 ASA تارادصل B عقوم مل نيوكت](#)

[مدقأل تارادصل او 8.2 ASA تارادصل A عقوم مل نيوكت](#)

[ةعومج مل جهن](#)

[ةحصل مل نم ققحت مل](#)

[ASDM](#)

[CLI](#)

[ىل وأل ةلحمل مل](#)

[ةيناثل ةلحمل مل](#)

[اهجالص او عاطخأل افاشكتسا](#)

[ثدحل تارادصل او 8.4 تارادصل مل](#)

[مدقأل تارادصل او 8.3 تارادصل مل](#)

## عمدق مل

نم IPsec (IKEv1) 1 رادصل تانرتنلإ حاتفم لدابت قفن نيوكت ةيفيك دننتم مل اذه فصى Cisco 5515-X Series ةلسلسل نم (ASA) فيكتلل لباقلا نامأل زاىب عقوم ىلإ عقوم نم 8.2.x رادصل لغشى يذل Cisco 5510 Series ASA وجم انربل نم 9.2.x رادصل لغشى يذل جم انربل.

## ةيساسأل تابلطت مل

### تابلطت مل

ةيلاتل عيضاوم لابل ةفرعم كي دل نوكت نأب Cisco ىصوت:

- لماشل IP لاصتا عاشنإ بجى
- تالوكوت ووربل هذىب حامسل بجى:
- فم كحتل ىوتس مل 4500 و 500 (UDP) مدختس مل تانايب طاطخم لوكوت وورب
- IPsec تانايب ىوتس مل 50 (ESP) ني مضتلا نامأ ةلومحل IP لوكوت وورب IPsec

### عمدختس مل تانوك مل

ةيلال ةي داملا تانوكملاو جماربلا تارادصا ىلإ دنن سمل اذه يف ةدراولا تامولعمل دننست

- Cisco 5510 Series ASA ةغص ةيجمرب ضكري نأ 8.2
- Cisco 5515-X ASA ةغص جماربلا لغشي يذلا 9.2

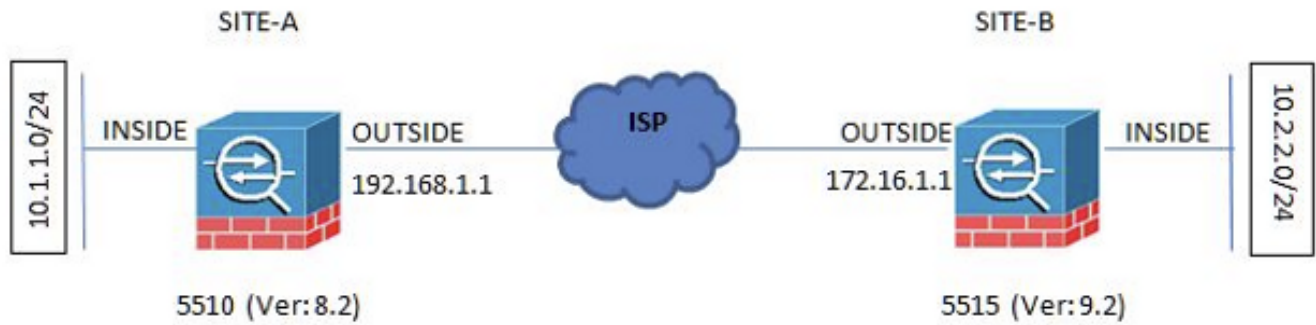
ةصاخ ةيلمعم ةئيب يف ةدوجوملا ةزهجال نم دنن سمل اذه يف ةدراولا تامولعمل عاشنإ مت تناك اذإ. (يضا رتفا) حوسمم نيوكتب دنن سمل اذه يف ةمدختسمل ةزهجال عيمج تادب رما يال لم تحملا ريثاتلل كمهف نم دكأتف ، ليغشتلا ديق كتكبش

## نيوكتلا

Adaptive جلام لال خ نم عقوم ىلإ عقوم نم VPN قفن نيوكت ةيفي ك مسقلا اذه فصبي Security Device Manager (ASDM) VPN (رم اوألا رطس ةهجاو) CLI لال خ نم وا

## ةكبش لل يطيطختلا مسرلا

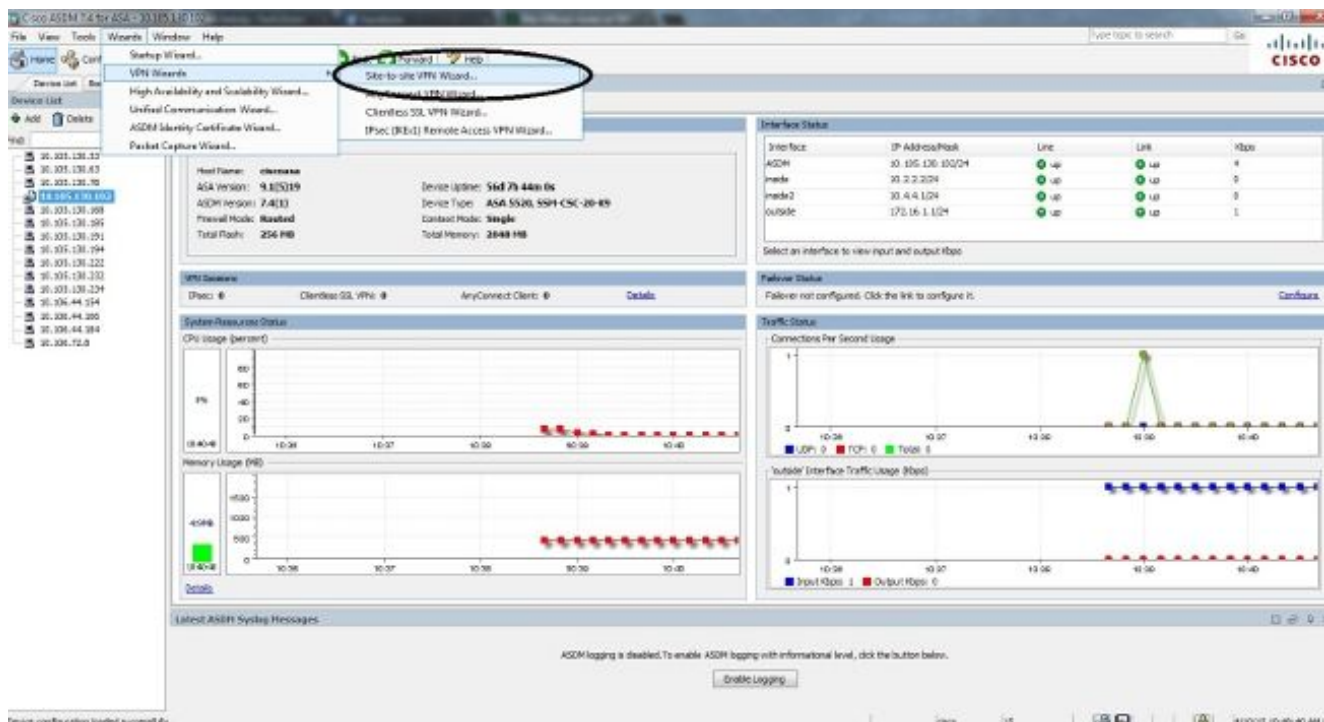
دنن سمل اذه يف ةلثمألل ططخملا اذه مادختسا متي



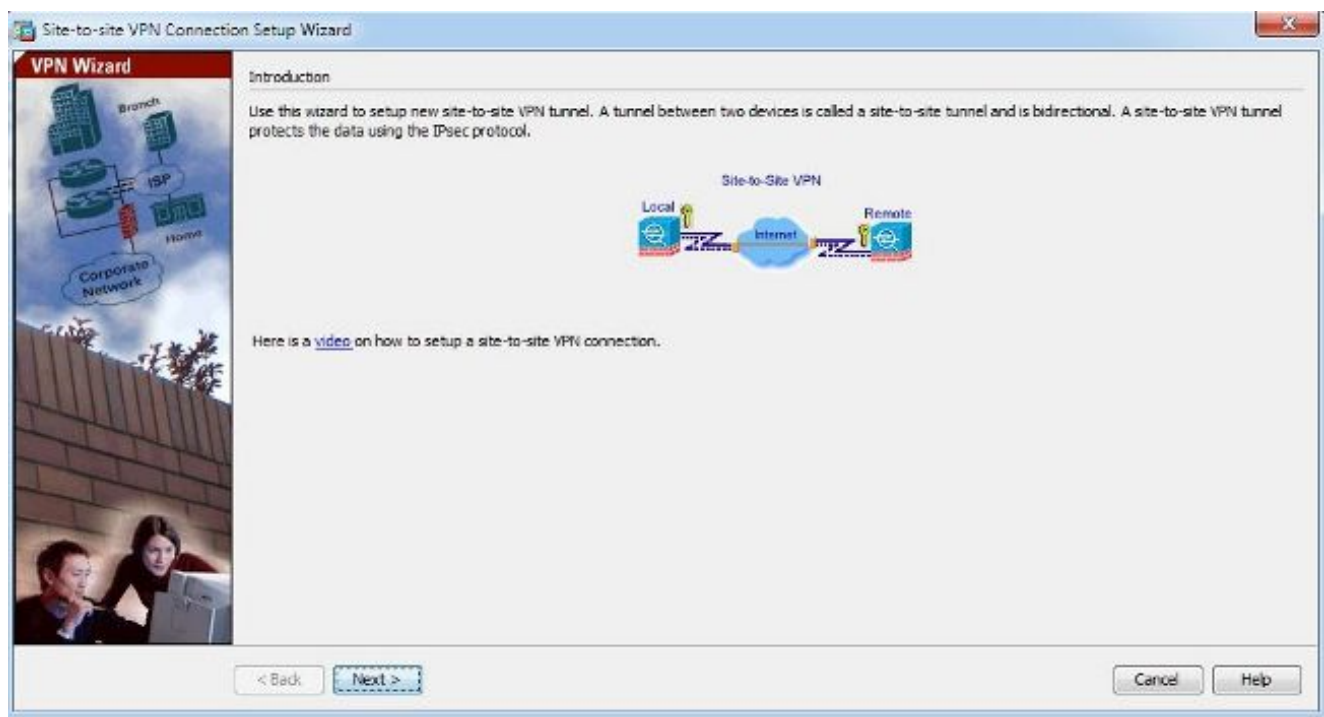
## ASDM VPN جلام ربع نيوكتلا

ASDM جلام لال خ نم عقوم ىلإ عقوم نم VPN قفن دادعإل ةيلال تاوطخلا لمكأ

1. Wizards > VPN Wizards > Site-to-site VPN Wizard. ىلإ لاقنتال او ASDM حتف 1.

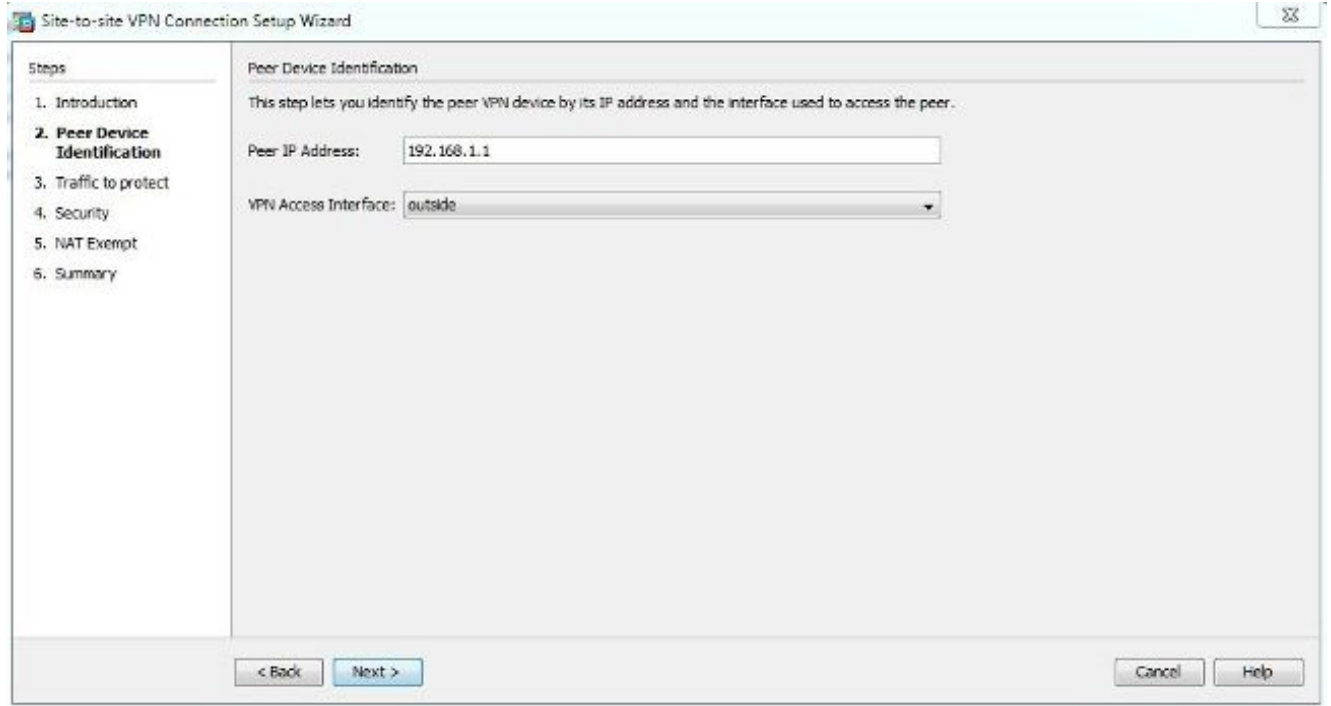


2. ج. ل عمل ة سيئرلا ةحفصلا إلو وصولا درجم بقنا .

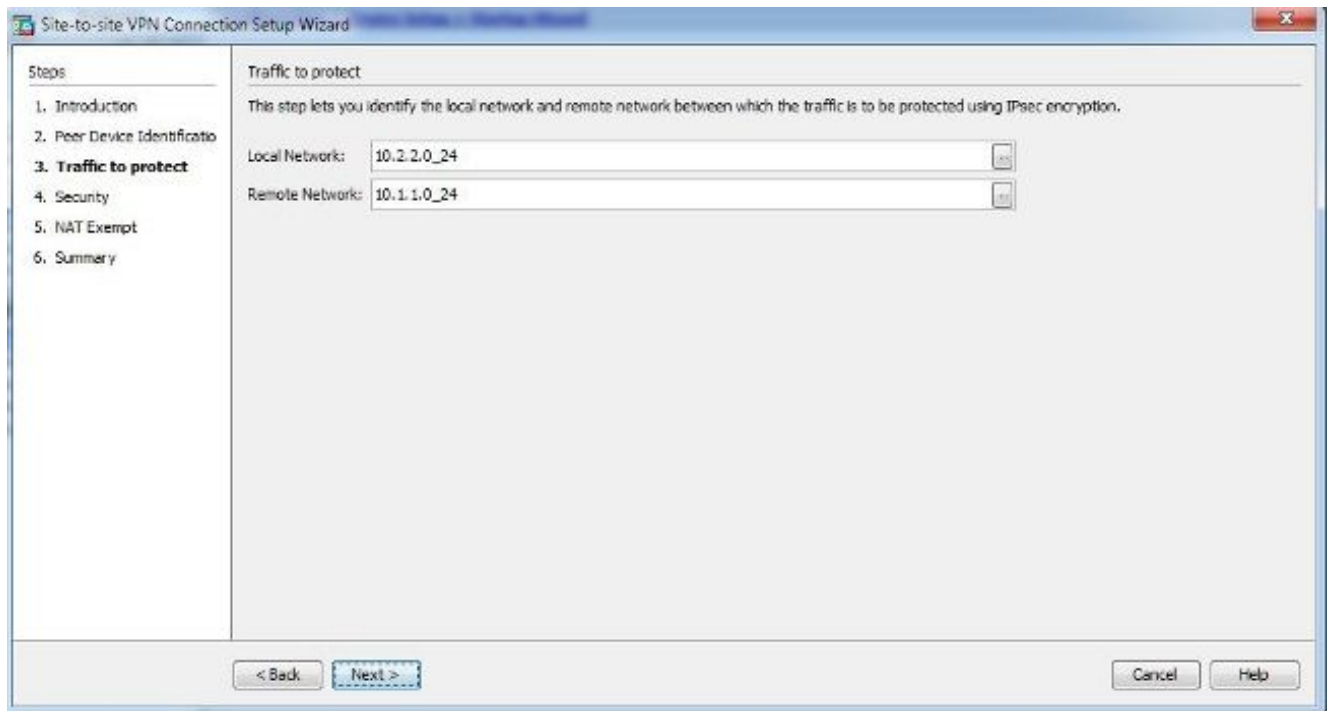


ن. وك تال اذ ح رشي ويديف إلو طابتر ASDM اارادصإ ش دحأ رفوت : ةظالم

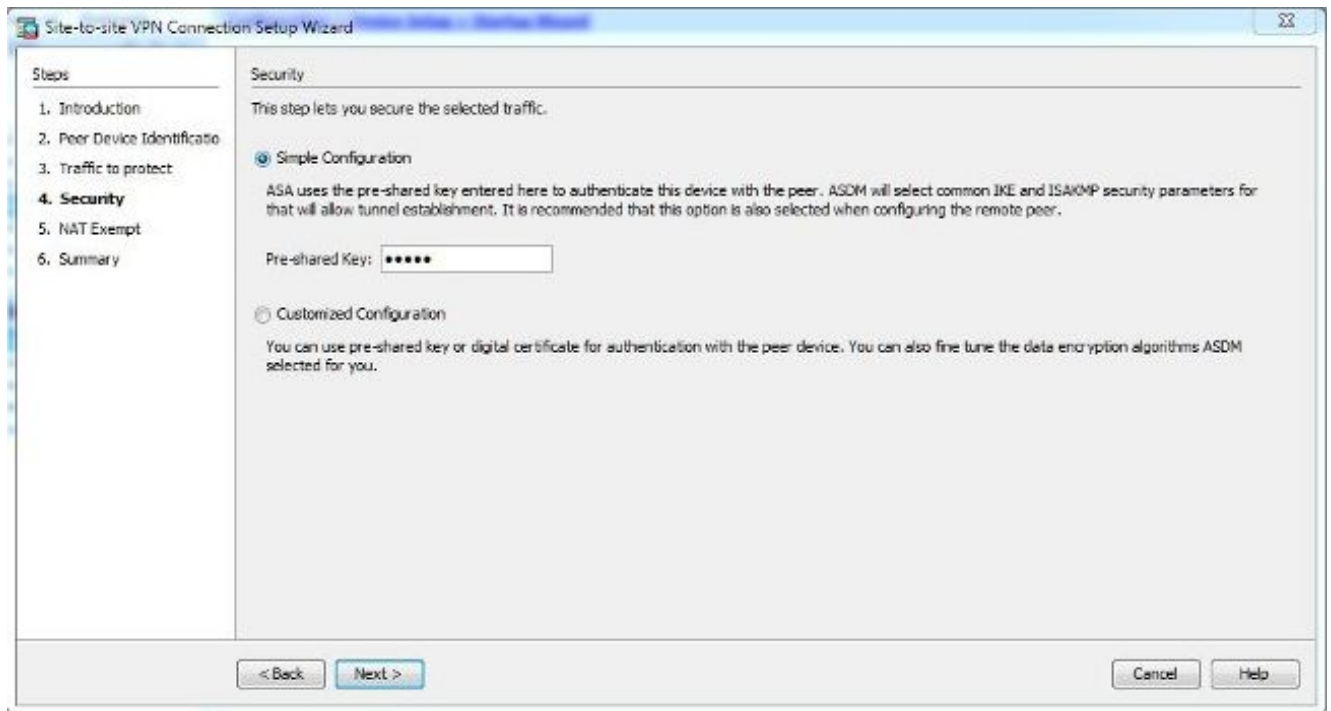
3. ل ع ريظنلل IP اوع ني عت متي ، ل ا ث م ل اذ ه ي . ريظنلل IP اوع ني وك ت ب مق . ع قوملا ي ف 192.168.1.1 (أ) ، ع قوملا ي ف 172.16.1.1 إلو ه ري غ ت فرطلا إلو وصولا اهل الخ نم نكمي ي تال ة ه ا و ل ا دي د ح ت م ت امك . ل ا م ت ك ا ل ا درجم بقنا . دي ع ب ل ا



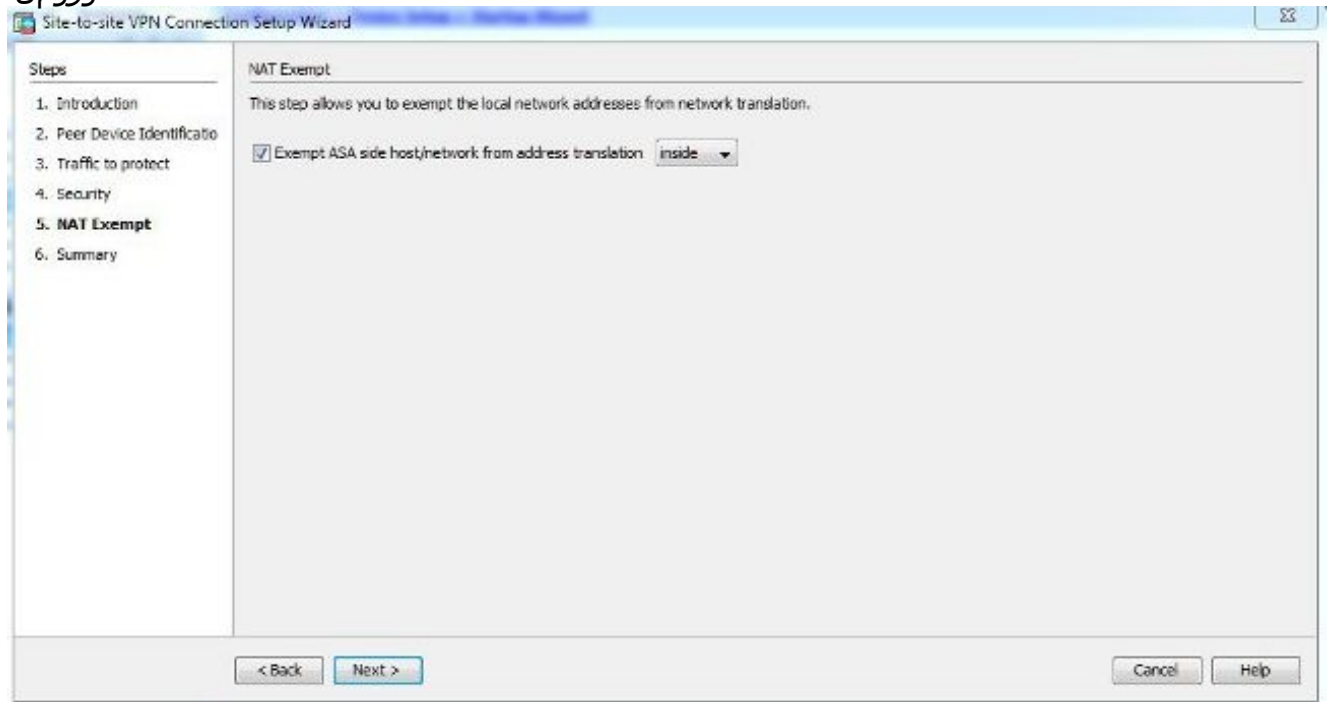
4. هذه ضرعت (ةهجول او رورملا ةكرح ردصم) ةدي عبالاو ةي لحمل تاك بشلا نيوك ت ب مق (أ).  
 (ب) ع قوملا س كعلا ق بطني (ب) ع قوملا نيوك ت ةروصللا



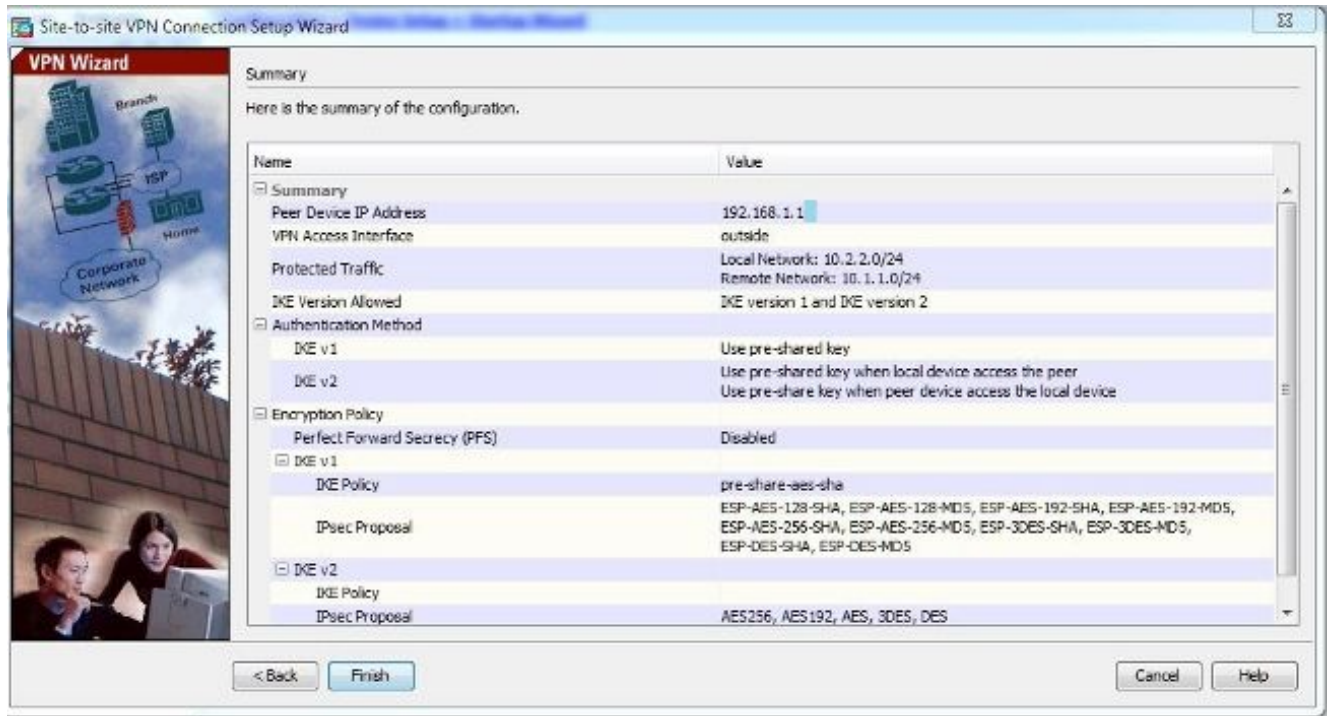
5. الك ىلع قباطتي نأ بجي) اق بسم كرتشملا حاتفملا نيوك ت ب مق ، نامألا ةحفص ي ف  
 لامتكألا درجم ب Next رقنا. (نيتيهاهنلا



6. ةدعاق ءاشنإب ايئاق لت ASDM موقوي. لآ لآ ءل ءورم ءكءل نراق رءصم لآ ءلكش. ءف نءوكء لآ ءق ب عم اه ءفءءو ASA راءص لآ ءل اءانء سا (NAT) ءكء لآ ناونع ءمءرء لآ ءمء، ءنءسم لآ اءه ءف مءءءسم لآ لآ ءم لآ ءب س ءل ء: ءظء لآ م. ءءءاه نلآ ءوطء لآ ءكء رءصم "لءءل" رورم لآ.



7. لءكشء لآ ءق ءءو ءءءار. لآ لآ ءفء مءء ءل ءل نءوكء لآ لآ ءل م نآ لآ ءل رءو ءف. ءق ءق ءمء، ءاءء ءل مء ءف.



## رم اوألا رطس ةهجاو ربع نيوكتلا (CLI)

رطس ةهجاو) CLI ربع عقوم ىلإ عقوم نم IKEv1 IPsec قفن نيوكت ةيفيك مسقلا اذه حضوي (رم اوألا).

### ثدحألا تارادصلإ او ASA 8.4 تارادصلإ B عقوملا نيوكت

ف Internet Key Exchange و IKEv1 نم لك معد مديقت مت ،ثدحألا تارادصلإ او ASA 8.4 تارادصلإ يف رادصلإ 2 (IKEv2).

مسق ىلإ عجرا ،نيرادصلإا ني ب قورفلا لوح تامولعمل نم ديزم ىلع لوصحلل :حيملت [IKEv2 L2L قفن نيوكت ىلإ IKEv1 ل عيرسلا ليحرتلا نم IKEv2؟ ىلإ ليحرتلا اذامل](#) Cisco نم ASA 8.4 Code دنتسم ىلع

عقوم نم [IKEv2 قفن](#) ىلع ةرطن قلا ،ASA عم IKEv2 نيوكت لاثم ىلع لوصحلل :حيملت Cisco دنتسم [هجوملا نيوكت ةلثم أو ASA ني ب عقوم ىلإ](#)

### 1 ةلحرملا (IKEv1)

1: ةلحرملا نيوكتلا ةيلاتلا تاوطخلا لمكأ

1: ججراخ نراقلا ىلع IKEv1 تنكم في CLI لآ لآ اذم تلخد .

```
crypto ikev1 enable outside
```

2: ةئزجتلا اهمادختسا متيس يتلا قرطلا/تايمزراخلا ددحت يتلا IKEv1 ةسايس عاشنا .  
ريفتلا و ةايحلا ةرودو Diffie-Hellman ةومجمو ةقداصلما

```
crypto ikev1 policy 1
```

```
!The 1 in the above command refers to the Policy suite priority
(1 highest, 65535 lowest)
authentication pre-share
encryption aes
hash sha
group 2
lifetime 86400
```

3. محتات فم وريظنلل IP ناو نع نيوكت ب مق و IPsec تامس تحت قافناً ةومجم عاشنإب مق :  
اقبسم كرتشمالم قفنللا

```
tunnel-group 192.168.1.1 type ipsec-l2l
tunnel-group 192.168.1.1 ipsec-attributes
ikev1 pre-shared-key cisco
! Note the IKEv1 keyword at the beginning of the pre-shared-key command.
```

## محتات فم وريظنلل (IPsec) 2 ةلحرمللا

2: ةلحرمللا نيوكتلة ةيلاللا تاوطخللا لمكأ

1. اهل تاو ن ق عاشنإو اهري فشت متيس يتللا رورملا ةكرح ددحت لوصلو ةمئاق عاشنإب مق .  
هليلع لوصلحلا متي يذلا قفنللا نم رورملا ةكرح يه ةحلصلملا رورم ةكرح ، لاثملا اذه ي  
اذإ ةددعتم تاللاخدإ لىل ع يوتحي نأ نكم يو . 10.1.1.0 لىل 10.2.2.0 ةي عرفلا ةكبشلا نم  
عق او مللا ني ب ةكرتشم ةددعتم ةي عرف ت اكبش كانه تناك .

لمعت تانئاك تاعومجم وأ تانئاك عاشنإنكمي ، ثدحألا تارادصللا او 8.4 تارادصللا ي  
مق . ةددعتم تانئاك وأ فيضم لل IP نيوانع وأ ةي عرفلا ت اكبشلا وأ ت اكبش لل تايوا ح  
نم لكل امه مادختساو ةديعبو ةي عرف ت اكبش لىل ع نا يوتحي ني نئاك عاشنإب  
NAT لمحو ري فشتلل (ACL) لوصلو لا في مكحتلا ةمئاق .

```
object network 10.2.2.0_24
subnet 10.2.2.0 255.255.255.0
object network 10.1.1.0_24
subnet 10.1.1.0 255.255.255.0
```

```
access-list 100 extended permit ip object 10.2.2.0_24 object 10.1.1.0_24
```

2. بجي IKEv1 ةيساسألا ةم لكلا نمضتت نأ بجي يتلاو ، (TS) ليوتحتلا ةومجم نيوكت .  
اضياً دي عبلا فرطاللا لىل ع قباطم TS عاشنإن

```
crypto ipsec ikev1 transform-set myset esp-aes esp-sha-hmac
```

3. ةيلاللا تانوكملا لىل ع يوتحت يتلاو ، ري فشتلا ةطيرخ نيوكت ب مق :  
يت ةدئافللا رورم ةكرح لىل ع يوتحت يتلا ةفرعمللا لوصلو ةمئاق ريظنلل IP ناو نع  
نم دي دج جوز ئشننت يتلا ، (PFS) ةي راي ت خالا ةلمكلا هي جوتلا ةداعإ ةي ررس دادعإس  
الك ني كمت بجي) تاناي ببال ةي امحل اهمادختسا متي يتلا Diffie-Hellman حي ت اف  
(2 ةلحرمللا روهظ لب ق PFS نم ني ب نجاللا

4. ةي خراخالا ةه او للا لىل ع ري فشتلا ةطيرخ قي ب طت :

```
crypto map outside_map 20 match address 100
crypto map outside_map 20 set peer 192.168.1.1
crypto map outside_map 20 set ikev1 transform-set myset
```

```
crypto map outside_map 20 set pfs
crypto map outside_map interface outside
```

## NAT انشآت

متمي يتي NAT ةدعاق يه هذه. ةدعاق nat رخآ ي إلى رورم ةكرح VPN لآ عسخي ال نأ تنمض  
اهمادختس:

```
nat (inside,outside) 1 source static 10.2.2.0_24 10.2.2.0_24 destination static
10.1.1.0_24 10.1.1.0_24 no-proxy-arp route-lookup
```

تائئك تاعومجم عاشن إك ل ع بجي، ةددتم ةي عرف تالكبش مادختس دن ع: **ةظحال**  
NAT. ةدعاق ي ف اهلامعتساو ةهوجل او ردصم لل ةي عرف لل تالكبش لآ عي مج مادختساب

```
object-group network 10.x.x.x_SOURCE
network-object 10.4.4.0 255.255.255.0
network-object 10.2.2.0 255.255.255.0
```

```
object network 10.x.x.x_DESTINATION
network-object 10.3.3.0 255.255.255.0
network-object 10.1.1.0 255.255.255.0
```

```
nat (inside,outside) 1 source static 10.x.x.x_SOURCE 10.x.x.x_SOURCE destination
static 10.x.x.x_DESTINATION 10.x.x.x_DESTINATION no-proxy-arp route-lookup
```

## نيوكتلآ جذومن لامك

B: عقوم لل لامك لل نيوكتلآ ي لي امي ف:

### **crypto ikev1 enable outside**

```
crypto ikev1 policy 10
authentication pre-share
encryption aes
hash sha
group 2
lifetime 86400
```

```
tunnel-group 192.168.1.1 type ipsec-l2l
tunnel-group 192.168.1.1 ipsec-attributes
ikev1 pre-shared-key cisco
!Note the IKEv1 keyword at the beginning of the pre-shared-key command.
```

```
object network 10.2.2.0_24
subnet 10.2.2.0 255.255.255.0
object network 10.1.1.0_24
subnet 10.1.1.0 255.255.255.0
```

```
access-list 100 extended permit ip object 10.2.2.0_24 object 10.1.1.0_24
```

```
crypto ipsec ikev1 transform-set myset esp-aes esp-sha-hmac
```



```
crypto map outside_map 20 match address 100
crypto map outside_map 20 set peer 192.168.1.1
crypto map outside_map 20 set ikev1 transform-set myset
crypto map outside_map 20 set pfs
crypto map outside_map interface outside

nat (inside,outside) 1 source static 10.2.2.0_24 10.2.2.0_24 destination static
10.1.1.0_24 10.1.1.0_24 no-proxy-arp route-lookup
```

## مدقأل تارادصلإل او ASA 8.2 تارادصلإل A عقومل نيوكت

مدقأل تارادصلإل او ASA 8.2 تارادصلإل A عقومل نيوكت ةي فيك مسقلا اذه حضوي

### ةلحرمل 1 (ISAKMP)

1: ةلحرمل نيوكتل ةيلاتل تاوطخل لمكأ

1. لوكتورب ةرادإ حاتفم و نارتقا نمأ تنرتنإ تنك م CLI in order to ل لخد رمأ اذه تلخد .  
(ISAKMP) ةلحرمل نراقلا ةلحرمل

```
crypto isakmp enable outside
```

م تي ، ةم و ةدم دع ت مل (IKEv1 و IKEv2) IKE نم ةددعت مل تارادصلإل نأل ارطن : **ةظحال م**  
1. ةلحرمل نراقلا ةلحرمل نراقلا ةلحرمل نراقلا ةلحرمل نراقلا ةلحرمل نراقلا

2. ءانب ل اهم ادختسإ م تيس ي تل ق رطلل/اتاي م زراوخل ددحت ي تلل ISAKMP ةسايس ءاشنإ .  
ةلحرمل نراقلا ةلحرمل نراقلا

م تي 9.x رادصلإل نم IKEv1 ةيساسأل ةمل كلل نوكت ، اذه نيوكتل لاثم ي ف : **ةظحال م**  
ISAKMP ب هل ادبتسإ

```
crypto isakmp policy 1
authentication pre-share
encryption aes
hash sha
group 2
lifetime 86400
```

3. م ادختسإ ب (5515 ماعل ةلحرمل نراقلا IP ناو ناع) رطلل ل IP ناو ناعل قافنأ ةموم جم ءاشنإ ب مق .  
اقبسم كرتشم ل حاتفم ل

```
tunnel-group 172.16.1.1 type ipsec-l2l
tunnel-group 172.16.1.1 ipsec-attributes
pre-shared-key cisco
```

### ةلحرمل 2 (IPsec)

2: ةلحرمل نيوكتل ةيلاتل تاوطخل لمكأ

1. ةسسوم لوصو ةمئاق ءاشنإ كئل ع ب جي ، 9.x رادصلإل ي ف نيوكتل عم ل حال وه امكو .  
مامتهال تاذ تاناي ب ل رورم ةك رح دي دحتل

```
access-list 100 extended permit ip 10.1.1.0 255.255.255.0
10.2.2.0 255.255.255.0
```

2. نمضتت) ةرفوتملا ةئزجتلالاوري فشتلتا تايمزراوخ عي مج ىلع يوتحي ts ديحتب مق .  
مت يذلا رخآلا بنجالل قباطم هنا نم دكأت .(ماهفتسا ةمالع ةضورعلملا تالكشمل  
هنيوكت .

```
crypto ipsec transform-set myset esp-aes esp-sha-hmac
```

3. ةيلالتا تانوكملا ىلع يوتحت ،ري فشت ةطيرخ نيوكت .  
يتةدئافلا رورم ةكرح ىلع يوتحت يتلا ةفرعلملا لوصولا ةمئاقريظنلا IP ناوع  
م تي يتلا Diffie-Hellman حيتافم نم ديدج جوزئشن يذلا ،يرايتخا PFS دادعاسا  
ثيحب PFS عم نيقيفاوتم نيبنجاللا الك نوكي نأ بجي) تانايبلا ةيامل اهملادختسا  
(2 ةلحرملا رهظت

4. ةيجراخلا ةهجاللا ىلع ريفشتلا ةطيرخ قيبتت .

```
crypto map outside_map 20 set peer 172.16.1.1  
crypto map outside_map 20 match address 100  
crypto map outside_map 20 set transform-set myset  
crypto map outside_map 20 set pfs  
crypto map outside_map interface outside
```

## NAT ءانثتسا

اذه ي ف . nat تاققحت نم اهؤافع متيس يتلا رورملا ةكرح ددحت لوصولا ةمئاق ءاشناب مق  
ةدئافلا رورم ةكرح لتنيع تنأ نأ لوصولا ةمئاق ىلا لثام رهظي ،رادصا

```
access-list nonat line 1 extended permit ip 10.1.1.0 255.255.255.0  
10.2.2.0 255.255.255.0
```

اهسفن لوصولا ةمئاق ىلا رخآ اطخ فضا ،ةددعتم ةيعرف تاكبش مادختسا دنع

```
access-list nonat line 1 extended permit ip 10.3.3.0 255.255.255.0  
10.4.4.0 255.255.255.0
```

انه حضوم وه امك ، NAT عم لوصولا ةمئاق مادختسا متي

```
nat (inside) 0 access-list nonat
```

رورم ةكرح اهيلع ASA ملتسي يتلا ةيلخادلا ةهجاللا مسا ىلا انه 'inside' ريشي :**ةظحالم**  
لوصولا ةمئاق قباطت يتلا تانايبلا

## نيوكتلا جذومن لامك

A: عقوملل لامكلا نيوكتلا يلي اميف

```
crypto isakmp enable outside  
crypto isakmp policy 10  
authentication pre-share  
encryption aes
```

```

hash sha group 2
lifetime 86400

tunnel-group 172.16.1.1 type ipsec-l2l
tunnel-group 172.16.1.1 ipsec-attributes
pre-shared-key cisco

access-list 100 extended permit ip 10.1.1.0 255.255.255.0
10.2.2.0 255.255.255.0
crypto ipsec transform-set myset esp-aes esp-sha-hmac

crypto map outside_map 20 set peer
crypto map outside_map 20 match address 100
crypto map outside_map 20 set transform-set myset
crypto map outside_map 20 set pfs
crypto map outside_map interface outside

access-list nonat line 1 extended permit ip 10.1.1.0 255.255.255.0
10.2.2.0 255.255.255.0

nat (inside) 0 access-list nonat

```

## ةومجملا جهن

هذه مادختسا متي. قفنلا لىل قبطنت ةني عم تاداعل دىحتل ةومجملا جهن مادختسا متي قفنلا ةومجم عم نارتقال اب تاسايسلا

تامسلا نم اهبس متي تامسلا نأ ينعي امم، يلخاد اما هنا لىل ةومجملا جهن فيرعت نكمي نم تامسلا نع مالعتسالا متي ثيح، ةيخراخ انا لىل اهفيرعت نكمي وا، ASA لىل ةدجملا ةومجملا ةسايس دىحتل همادختسا متي يذال رمالا وه اذه. يخراخ مداخ

```
group-policy SITE_A internal
```

ةفالكب ةمئاق لىل لوصحلل. ةومجملا جهن في ةدعتم تامس فيرعت نكمي: **ةظالم** VPN نيوكت تاءارجا في "**ةومجملا تاسايس نيوكت**" مسق لىل عجرا، ةنكمملا تامسلا ل ASDM ل ةدجملا ل 5.2 رادصلا، Cisco ASA 5500 ةلسلس ل

## ةومجملا جهنل ةيرايتخا تامس

هلىل تاداعلا هذه قىبطت بجي يذال قفنلا عون ةمسلا دحت vpn-tunnel-protocol رمالا ضرعي IPsec مادختسا متي، لالم اذه في

```

vpn-tunnel-protocol ?
group-policy mode commands/options:
IPSec IP Security Protocol l2tp-ipsec L2TP using IPSec for security
svc SSL VPN Client
webvpn WebVPN

vpn-tunnel-protocol ipsec - Versions 8.2 and prior
vpn-tunnel-protocol ikev1 - Version 8.4 and later

```

فقوتي الو (رورم ةكرح نودب) لومخال عضو في لظي تحت قفنلا نيوكتل رايلال كيدل

كذلك، قوائم إعدادات سلسلة مديقات مدخست نأ بجي vpn-idle-timeout نإف، رايخلا اذه نيوكتل ادبأ طقسى ال قفنل نأ ينعي ام، none، لى ةمى قلا نيي عت.

لاثل ملى امي ف:

```
group-policy SITE_A attributes
vpn-idle-timeout ?
group-policy mode commands/options:
<1-35791394> Number of minutes
none IPsec VPN: Disable timeout and allow an unlimited idle period;
```

فيري عتب قفنل ةومجم ةماعل تامسلل تحت دوجومل رمأل موقى default-group-policy رمأل ضرعي ذخأ متي. هؤاشنإ متي ذل قفنل ل جهنل ادادعإ ضعب عفدل هم ادختسإ متي يذلا ةومجمل جهن ةومجم جهن نم ةومجمل جهن ي ف اه فيري عتب مقي مل يتلل تاراى للى ةيضا رتفالا ادادعإل اى مومع يضا رتفا:

```
tunnel-group 172.16.1.1 general-attributes
default-group-policy SITE_A
```

## ةحصلل نم ققحتللا

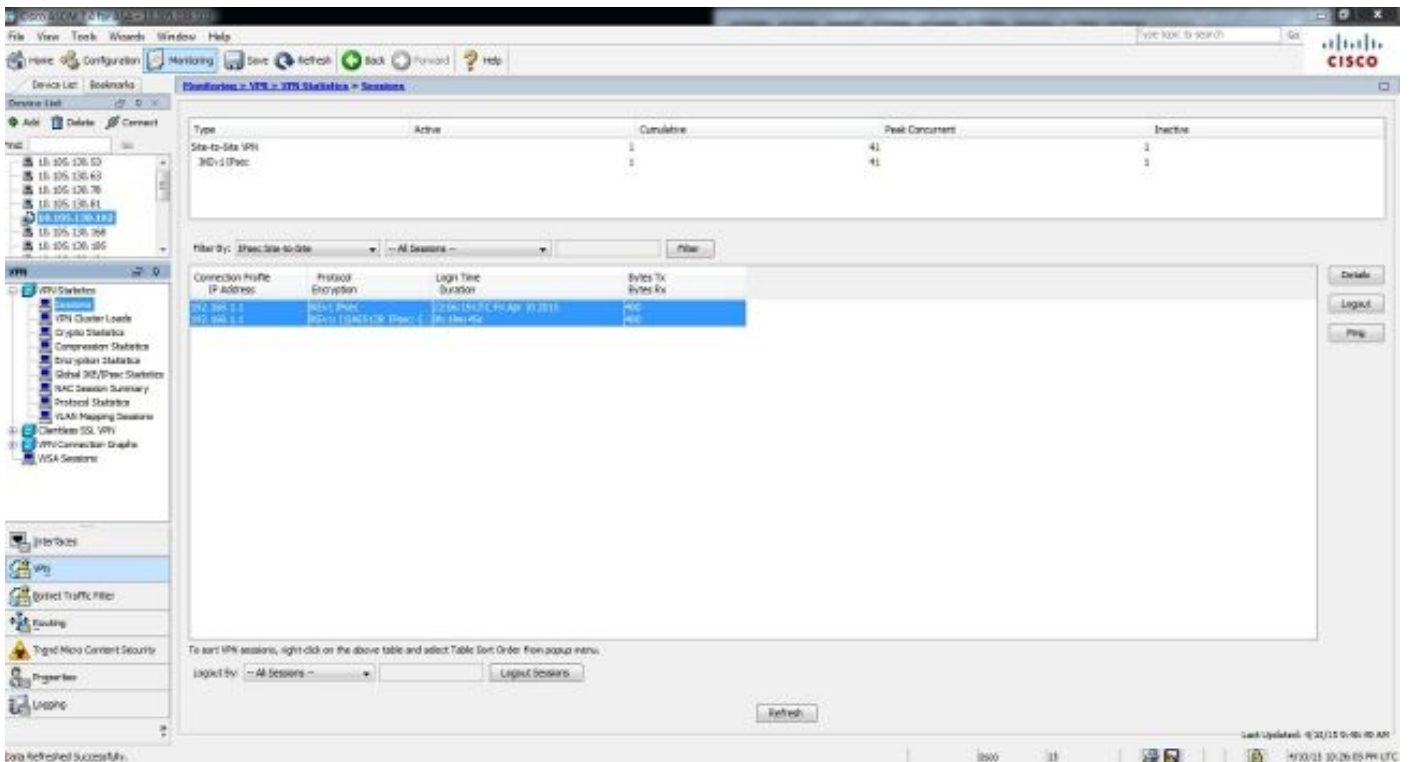
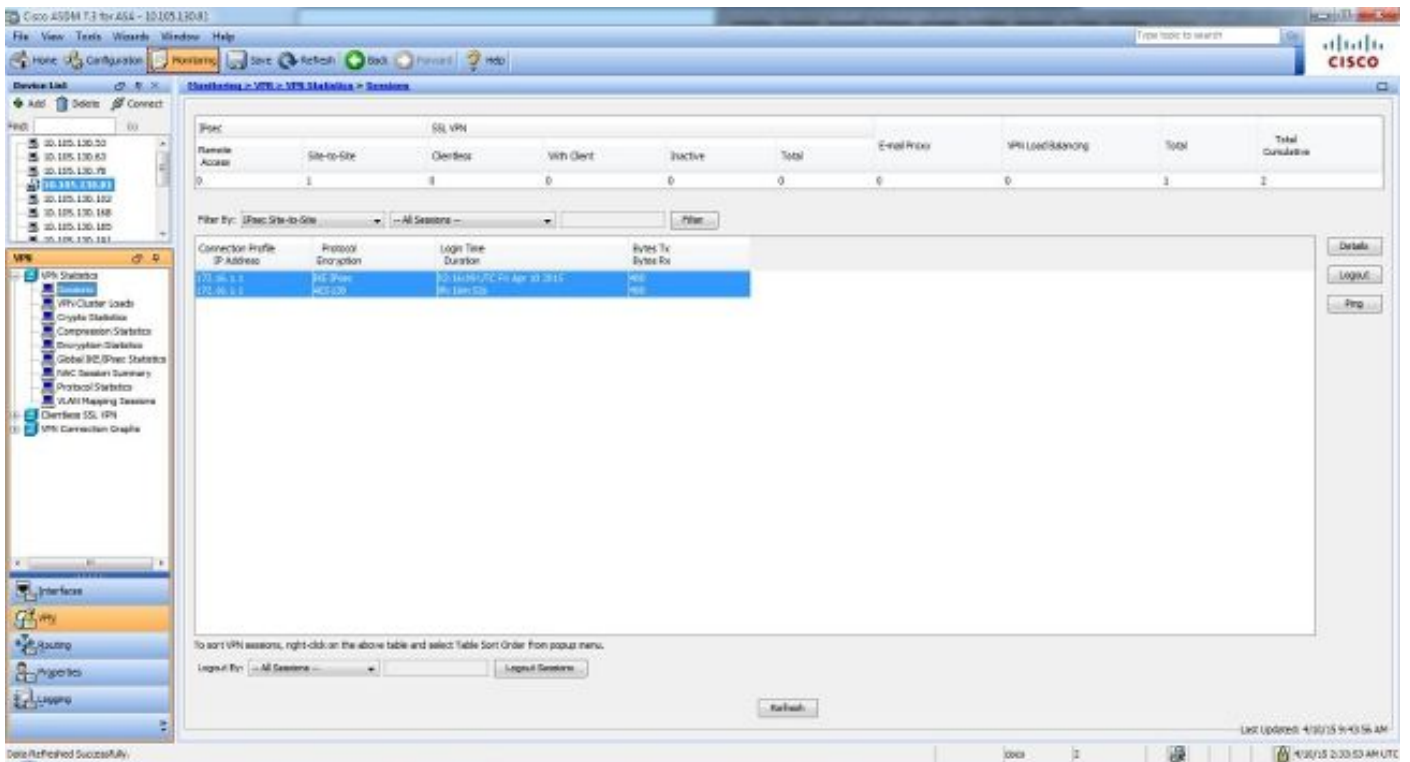
لكشب لمعي لكي دل نيوكتل نأ نم ققحتلل مسقلا اذه ي ف ةمدقملا تامولعمل مدختسأ جىحص.

## ASDM

تامولعمل هذه ريفوت متي. Monitoring > VPN، لى لقتنا، ASDM، نم قفنل ةلاح ضرعل:

- ريظنل IP ناونع
- قفنل ءاشنإل هم ادختسإ متي يذلا لوكوتوربلل
- هم ادختسإ متي يتلل ريفش تلة ةيمزراوخ
- تقولا و قفنل هيف جرخ يذلا تقولا
- اهلقنو اهمال تسإ متي يتلل مزحلا ددع

تقولا ي ف اهثي دحت متي ال تاناى بل نأ شيح، ميقلا ثدحأ ضرعل Refresh رقنا: جيملت ي قى قحلا.



## CLI

رم اوألا رطس ةهجاو ربع كب صاخلا نيوكتل نم ققحتلا ةيفي ك مسقلا اذه حضوي

## لؤلأ ةلحرمل

عقوملا بناج لؤلأ 1 ةلحرمل نيوكتل نم ققحتلل (CLI) رم اوألا رطس ةهجاو يف رمألا اذه لخدا (5515):

**show crypto ikev1 sa**

Active SA: 1  
Rekey SA: 0 (A tunnel will report 1 Active and 1 Rekey SA during rekey)  
Total IKE SA: 1

1 IKE Peer: **192.168.1.1**  
Type : L2L Role : **initiator**  
Rekey : no State : **MM\_ACTIVE**

(5510) بنجاح لى لى 1 ة لحرمل نيوكت نم ققحتلل (CLI) رم اوألا رطس ةهجاو يف رمألا اذه لخدأ  
ع قوملل A:

**show crypto isakmp sa**

Active SA: 1  
Rekey SA: 0 (A tunnel will report 1 Active and 1 Rekey SA during rekey)  
Total IKE SA: 1

1 IKE Peer: **172.16.1.1**  
Type : L2L Role : **initiator**  
Rekey : no State : **MM\_ACTIVE**

## ة يناثلا ةلحرمل

ن ارقألا ني ب اهؤاشن م ت ي تال IPsec SAs لئاسر رمألا ضرعي show crypto ipsec sa رمألا ضرعي  
ي تال رورملا ةكرحل 172.16.1.1 و 192.168.1.1 IP نيوانع ني ب رشملا قف نلا ءاشن م تي  
امهؤاشن م ت ني تال ESP ي تدحو ةيؤر كنكمي 10.1.1.0 و 10.2.2.0 تالكبشلا ني ب قف دتت  
لئاسر دوجو مدعل ارطن (AH) ةقداصملا سار مادختسا م تي ال . ةرداصل او ةدراول رورملا ةكرحل  
AH SA.

(B) ع قوملل بنجاح لى لى 2 ة لحرمل نيوكت نم ققحتلل (CLI) رم اوألا رطس ةهجاو يف رمألا اذه لخدأ  
(5515):

```
interface: FastEthernet0
Crypto map tag: outside_map, local addr. 172.16.1.1
  local ident (addr/mask/prot/port): (10.2.2.0/255.255.0/0/0)
remote ident (addr/mask/prot/port): (10.1.1.0/255.255.255.0/0/0)
  current_peer: 192.168.1.1
PERMIT, flags={origin_is_acl,}
#pkts encaps: 20, #pkts encrypt: 20, #pkts digest 20
#pkts decaps: 20, #pkts decrypt: 20, #pkts verify 20
#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.: 172.16.1.1, remote crypto endpt.: 172.16.1.1
path mtu 1500, media mtu 1500
current outbound spi: 3D3
inbound esp sas:
spi: 0x136A010F(325714191)
  transform: esp-aes esp-sha-hmac ,
in use settings = {Tunnel, }
slot: 0, conn id: 3442, flow_id: 1443, crypto map: outside_map
  sa timing: remaining key lifetime (k/sec): (4608000/52)
```

```
IV size: 8 bytes
replay detection support: Y
inbound ah sas:
inbound pcp sas:
inbound pcp sas:
outbound esp sas:
spi: 0x3D3(979)
    transform: esp-aes esp-sha-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 3443, flow_id: 1444, crypto map: outside_map
    sa timing: remaining key lifetime (k/sec): (4608000/52)
IV size: 8 bytes
replay detection support: Y
outbound ah sas:
outbound pcp sas
```

(5510) بن اچال ىلع 2 ةلحرمل نيوكت نم ققحتلل (CLI) رم اوأل رطس ةهجاو يف رمأل اذه لخدأ  
ع قوملل A:

```
interface: FastEthernet0
Crypto map tag: outside_map, local addr. 192.168.1.1
    local ident (addr/mask/prot/port): (10.1.1.0/255.255.255.0/0/0)
remote ident (addr/mask/prot/port): (10.2.2.0/255.255.255.0/0/0)
    current_peer: 172.16.1.1
PERMIT, flags={origin_is_acl,}
    #pkts encaps: 20, #pkts encrypt: 20, #pkts digest 20
#pkts decaps: 20, #pkts decrypt: 20, #pkts verify 20
#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.: 192.168.1.1, remote crypto endpt.: 172.16.1.1
path mtu 1500, media mtu 1500
current outbound spi: 3D3
inbound esp sas:
spi: 0x136A010F(325714191)
    transform: esp-aes esp-sha-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 3442, flow_id: 1443, crypto map: outside_map
    sa timing: remaining key lifetime (k/sec): (4608000/52)
IV size: 8 bytes
replay detection support: Y
inbound ah sas:
inbound pcp sas:
inbound pcp sas:
outbound esp sas:
spi: 0x3D3(979)
    transform: esp-aes esp-sha-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 3443, flow_id: 1444, crypto map: outside_map
    sa timing: remaining key lifetime (k/sec): (4608000/52)
IV size: 8 bytes
replay detection support: Y
outbound ah sas:
outbound pcp sas
```

اهحالص او عاطخال فاشكتسا

رادصا ليكش تيرحت in order to مسق اذه يف تدوز نو كي نأ ةمول عمل تلمعتسا.

## ثدحال تارادصا او 8.4 تارادصا ال ا ASA

قفنلا لشف عقوم دي دحتل هذه ءاطخال حيصت رم او لخدأ:

- debug crypto ikev1 127 (1 ةلحرمل)
- debug crypto ipsec 127 (2 ةلحرمل)

جاتن ا طبضي نم لماك لاثم انه

```
IPSEC(crypto_map_check)-3: Looking for crypto map matching 5-tuple: Prot=1,
saddr=10.2.2.1, sport=19038, daddr=10.1.1.1, dport=19038
IPSEC(crypto_map_check)-3: Checking crypto map outside_map 20: matched.
Feb 13 23:48:56 [IKEv1 DEBUG]Pitcher: received a key acquire message, spi 0x0
IPSEC(crypto_map_check)-3: Looking for crypto map matching 5-tuple: Prot=1,
saddr=10.2.2.1, sport=19038, daddr=10.1.1.1, dport=19038
IPSEC(crypto_map_check)-3: Checking crypto map outside_map 20: matched.
Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, IKE Initiator: New Phase 1, Intf NP
Identity Ifc, IKE Peer 192.168.1.1 local Proxy Address 10.2.2.0, remote Proxy
Address 10.1.1.0, Crypto map (outside_map) Feb 13 23:48:56 [IKEv1 DEBUG]IP =
192.168.1.1, constructing ISAKMP SA payload Feb 13 23:48:56 [IKEv1 DEBUG]IP =
192.168.1.1, constructing NAT-Traversal VID ver 02 payload
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, constructing NAT-Traversal VID
ver 03 payload
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, constructing NAT-Traversal VID
ver RFC payload
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, constructing Fragmentation VID +
extended capabilities payload
Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, IKE_DECODE SENDING Message (msgid=0)
with payloads : HDR + SA (1) + VENDOR (13) + VENDOR (13) + VENDOR (13) + VENDOR
(13) + NONE (0) total length : 172
Feb 13 23:48:56 [IKEv1]IKE Receiver: Packet received on 172.16.1.1:500
from 192.168.1.1:500
Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, IKE_DECODE RECEIVED Message (msgid=0)
with payloads : HDR + SA (1) + VENDOR (13) + VENDOR (13) + NONE (0) total
length : 132
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, processing SA payload
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, Oakley proposal is acceptable
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, processing VID payload
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, Received NAT-Traversal ver 02 VID
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, processing VID payload
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, Received Fragmentation VID
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, IKE Peer included IKE
fragmentation capability flags: Main Mode: True Aggressive Mode: True
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, constructing ke payload
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, constructing nonce payload
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, constructing Cisco Unity
VID payload
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, constructing xauth V6
VID payload
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, Send IOS VID
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, Constructing ASA spoofing IOS
Vendor ID payload (version: 1.0.0, capabilities: 20000001)
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, constructing VID payload
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, Send Altiga/Cisco VPN3000/Cisco
ASA GW VID
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, constructing NAT-Discovery payload
```



Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, computing NAT Discovery hash  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, constructing NAT-Discovery payload  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, computing NAT Discovery hash  
Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, IKE\_DECODE SENDING Message (msgid=0)  
with payloads : HDR + KE (4) + NONCE (10) + VENDOR (13) + VENDOR (13) + VENDOR  
(13) + VENDOR (13) + NAT-D (130) + NAT-D (130) + NONE (0) total length : 304  
Feb 13 23:48:56 [IKEv1]IKE Receiver: Packet received on 172.16.1.1:500  
from 192.168.1.1:500  
Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, IKE\_DECODE RECEIVED Message (msgid=0)  
with payloads : HDR + KE (4) + NONCE (10) + VENDOR (13) + VENDOR (13) + VENDOR  
(13) + VENDOR (13) + NAT-D (130) + NAT-D (130) + NONE (0) total length : 304  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, processing ke payload  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, processing ISA\_KE payload  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, processing nonce payload  
Feb 13 23:48:56 [IKEv1 DEBUG]?IP = 192.168.1.1, processing VID payload  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, Received Cisco Unity client VID  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, processing VID payload  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, Received xauth V6 VID  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, processing VID payload  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, Processing VPN3000/ASA spoofing  
IOS Vendor ID payload (version: 1.0.0, capabilities: 20000001)  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, processing VID payload  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, Received Altiga/Cisco  
VPN3000/Cisco ASA GW VID  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, processing NAT-Discovery payload  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, computing NAT Discovery hash  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, processing NAT-Discovery payload  
!  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, computing NAT Discovery hash  
Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, **Connection landed on tunnel\_group**  
**192.168.1.1**  
Feb 13 23:48:56 [IKEv1 DEBUG]!Group = 192.168.1.1, IP = 192.168.1.1, Generating  
keys for Initiator...  
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, constructing  
ID payload  
Feb 13 23:48:56 [IKEv1 DEBUG]!Group = 192.168.1.1, IP = 192.168.1.1, constructing  
hash payload  
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, Computing  
hash for ISAKMP  
Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, Constructing IOS keep alive  
payload: proposal=32767/32767 sec.  
!  
Success rate is 80 percent (4/5), round-trip min/avg/max = 1/3/10 ms  
ciscoasa# Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
constructing dpd vid payload  
Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, IKE\_DECODE SENDING Message (msgid=0)  
with payloads : HDR + ID (5) + HASH (8) + IOS KEEPALIVE (128) + VENDOR (13) +  
NONE (0) total length : 96  
**Feb 13 23:48:56 [IKEv1]Group = 192.168.1.1, IP = 192.168.1.1, Automatic NAT**  
**Detection Status: Remote end is NOT behind a NAT device This end is NOT behind**  
**a NAT device**  
Feb 13 23:48:56 [IKEv1]IKE Receiver: Packet received on 172.16.1.1:500  
from 192.168.1.1:500  
Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, IKE\_DECODE RECEIVED Message (msgid=0)  
with payloads : HDR + ID (5) + HASH (8) + IOS KEEPALIVE (128) + VENDOR (13) +  
NONE (0) total length : 96  
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, processing  
ID payload  
Feb 13 23:48:56 [IKEv1 DECODE]Group = 192.168.1.1, IP = 192.168.1.1,  
ID\_IPV4\_ADDR ID received 192.168.1.1  
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
processing hash payload  
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, Computing  
hash for ISAKMP

Feb 13 23:48:56 [IKEv1 DEBUG]IP = 192.168.1.1, Processing IOS keep alive payload:  
proposal=32767/32767 sec.

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, processing  
VID payload

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, Received  
DPD VID

Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, Connection landed on tunnel\_group  
192.168.1.1

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, Oakley  
begin quick mode

Feb 13 23:48:56 [IKEv1 DECODE]Group = 192.168.1.1, IP = 192.168.1.1, IKE  
Initiator starting QM: msg id = 4c073b21

**Feb 13 23:48:56 [IKEv1]Group = 192.168.1.1, IP = 192.168.1.1, PHASE 1 COMPLETED**

Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, Keep-alive type for this connection: DPD

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, Starting P1  
rekey timer: 73440 seconds.

IPSEC: New embryonic SA created @ 0x75298588,  
SCB: 0x75C34F18,  
Direction: inbound  
SPI : 0x03FC9DB7  
Session ID: 0x00004000  
VPIF num : 0x00000002  
Tunnel type: l2l  
Protocol : esp  
Lifetime : 240 seconds

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
IKE got SPI from key engine: SPI = 0x03fc9db7

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
oakley constucting quick mode

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
constructing blank hash payload

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
constructing IPsec SA payload

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
constructing IPsec nonce payload

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
constructing proxy ID

**Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
Transmitting Proxy Id:**

**Local subnet: 10.2.2.0 mask 255.255.255.0 Protocol 0 Port 0**

**Remote subnet: 10.1.1.0 Mask 255.255.255.0 Protocol 0 Port 0**

Feb 13 23:48:56 [IKEv1 DECODE]Group = 192.168.1.1, IP = 192.168.1.1,  
IKE Initiator sending Initial Contact

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1,  
IP = 192.168.1.1, constructing qm hash payload

Feb 13 23:48:56 [IKEv1 DECODE]Group = 192.168.1.1,  
IP = 192.168.1.1, IKE Initiator sending 1st QM pkt: msg id = 4c073b21

Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, IKE\_DECODE SENDING Message (msgid=4c073b21)  
with payloads : HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) +  
NOTIFY (11) + NONE (0) total length : 200

Feb 13 23:48:56 [IKEv1]IKE Receiver: Packet received on 172.16.1.1:500  
from 192.168.1.1:500

Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, IKE\_DECODE RECEIVED Message (msgid=4c073b21)  
with payloads : HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) + NONE (0)  
total length : 172

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
processing hash payload

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
processing SA payload

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
processing nonce payload

Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
processing ID payload

Feb 13 23:48:56 [IKEv1 DECODE]Group = 192.168.1.1, IP = 192.168.1.1,

ID\_IPV4\_ADDR\_SUBNET ID received--10.2.2.0--255.255.255.0  
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
processing ID payload  
Feb 13 23:48:56 [IKEv1 DECODE]Group = 192.168.1.1, IP = 192.168.1.1,  
ID\_IPV4\_ADDR\_SUBNET ID received--10.1.1.0--255.255.255.0  
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
loading all IPSEC SAs  
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
Generating Quick Mode Key!  
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
NP encrypt rule look up for crypto map outside\_map 20 matching ACL  
100: returned cs\_id=6ef246d0; encrypt\_rule=752972d0;  
tunnelFlow\_rule=75ac8020  
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1,  
Generating Quick Mode Key!  
IPSEC: New embryonic SA created @ 0x6f0e03f0,  
SCB: 0x75B6DD00,  
Direction: outbound  
SPI : 0x1BA0C55C  
Session ID: 0x00004000  
VPIF num : 0x00000002  
Tunnel type: 121  
Protocol : esp  
Lifetime : 240 seconds  
IPSEC: Completed host OBSA update, SPI 0x1BA0C55C  
IPSEC: Creating outbound VPN context, SPI 0x1BA0C55C  
Flags: 0x00000005  
SA : 0x6f0e03f0  
SPI : 0x1BA0C55C  
MTU : 1500 bytes  
VCID : 0x00000000  
Peer : 0x00000000  
SCB : 0x0B47D387  
Channel: 0x6ef0a5c0  
IPSEC: Completed outbound VPN context, SPI 0x1BA0C55C  
VPN handle: 0x0000f614  
IPSEC: New outbound encrypt rule, SPI 0x1BA0C55C  
Src addr: 10.2.2.0  
Src mask: 255.255.255.0  
Dst addr: 10.1.1.0  
Dst mask: 255.255.255.0  
Src ports  
Upper: 0  
Lower: 0  
Op : ignore  
Dst ports  
Upper: 0  
Lower: 0  
Op : ignore  
Protocol: 0  
Use protocol: false  
SPI: 0x00000000  
Use SPI: false  
IPSEC: Completed outbound encrypt rule, SPI 0x1BA0C55C  
Rule ID: 0x74e1c558  
IPSEC: New outbound permit rule, SPI 0x1BA0C55C  
Src addr: 172.16.1.1  
Src mask: 255.255.255.255  
Dst addr: 192.168.1.1  
Dst mask: 255.255.255.255  
Src ports  
Upper: 0  
Lower: 0  
Op : ignore

Dst ports  
Upper: 0  
Lower: 0  
Op : ignore  
Protocol: 50  
Use protocol: true  
SPI: 0x1BA0C55C  
Use SPI: true  
IPSEC: Completed outbound permit rule, SPI 0x1BA0C55C  
Rule ID: 0x6f0dec80  
**Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, NP encrypt rule  
look up for crypto map outside\_map 20 matching ACL 100: returned cs\_id=6ef246d0;  
encrypt\_rule=752972d0; tunnelFlow\_rule=75ac8020**  
Feb 13 23:48:56 [IKEv1]Group = 192.168.1.1, IP = 192.168.1.1, Security negotiation  
complete for LAN-to-LAN Group (192.168.1.1) Initiator, Inbound SPI = 0x03fc9db7,  
Outbound SPI = 0x1ba0c55c  
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, oakley  
constructing final quick mode  
Feb 13 23:48:56 [IKEv1 DECODE]Group = 192.168.1.1, IP = 192.168.1.1, IKE Initiator  
sending 3rd QM pkt: msg id = 4c073b21  
Feb 13 23:48:56 [IKEv1]IP = 192.168.1.1, IKE\_DECODE SENDING Message (msgid=4c073b21)  
with payloads : HDR + HASH (8) + NONE (0) total length : 76  
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, IKE got a KEY\_ADD  
msg for SA: SPI = 0x1ba0c55c  
IPSEC: New embryonic SA created @ 0x75298588,  
SCB: 0x75C34F18,  
Direction: inbound  
SPI : 0x03FC9DB7  
Session ID: 0x00004000  
VPIF num : 0x00000002  
Tunnel type: l2l  
Protocol : esp  
Lifetime : 240 seconds  
IPSEC: Completed host IBSA update, SPI 0x03FC9DB7  
IPSEC: Creating inbound VPN context, SPI 0x03FC9DB7  
Flags: 0x00000006  
SA : 0x75298588  
SPI : 0x03FC9DB7  
MTU : 0 bytes  
VCID : 0x00000000  
Peer : 0x0000F614  
SCB : 0x0B4707C7  
Channel: 0x6ef0a5c0  
IPSEC: Completed inbound VPN context, SPI 0x03FC9DB7  
VPN handle: 0x00011f6c  
IPSEC: Updating outbound VPN context 0x0000F614, SPI 0x1BA0C55C  
Flags: 0x00000005  
SA : 0x6f0e03f0  
SPI : 0x1BA0C55C  
MTU : 1500 bytes  
VCID : 0x00000000  
Peer : 0x00011F6C  
SCB : 0x0B47D387  
Channel: 0x6ef0a5c0  
IPSEC: Completed outbound VPN context, SPI 0x1BA0C55C  
VPN handle: 0x0000f614  
IPSEC: Completed outbound inner rule, SPI 0x1BA0C55C  
Rule ID: 0x74e1c558  
IPSEC: Completed outbound outer SPD rule, SPI 0x1BA0C55C  
Rule ID: 0x6f0dec80  
IPSEC: New inbound tunnel flow rule, SPI 0x03FC9DB7  
Src addr: 10.1.1.0  
Src mask: 255.255.255.0  
Dst addr: 10.2.2.0

```
Dst mask: 255.255.255.0
Src ports
Upper: 0
Lower: 0
Op : ignore
Dst ports
Upper: 0
Lower: 0
Op : ignore
Protocol: 0
Use protocol: false
SPI: 0x00000000
Use SPI: false
IPSEC: Completed inbound tunnel flow rule, SPI 0x03FC9DB7
Rule ID: 0x74e1b4a0
IPSEC: New inbound decrypt rule, SPI 0x03FC9DB7
Src addr: 192.168.1.1
Src mask: 255.255.255.255
Dst addr: 172.16.1.1
Dst mask: 255.255.255.255
Src ports
Upper: 0
Lower: 0
Op : ignore
Dst ports
Upper: 0
Lower: 0
Op : ignore
Protocol: 50
Use protocol: true
SPI: 0x03FC9DB7
Use SPI: true
IPSEC: Completed inbound decrypt rule, SPI 0x03FC9DB7
Rule ID: 0x6f0de830
IPSEC: New inbound permit rule, SPI 0x03FC9DB7
Src addr: 192.168.1.1
Src mask: 255.255.255.255
Dst addr: 172.16.1.1
Dst mask: 255.255.255.255
Src ports
Upper: 0
Lower: 0
Op : ignore
Dst ports
Upper: 0
Lower: 0
Op : ignore
Protocol: 50
Use protocol: true
SPI: 0x03FC9DB7
Use SPI: true
IPSEC: Completed inbound permit rule, SPI 0x03FC9DB7
Rule ID: 0x6f0de8d8
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, Pitcher:
received KEY_UPDATE, spi 0x3fc9db7
Feb 13 23:48:56 [IKEv1 DEBUG]Group = 192.168.1.1, IP = 192.168.1.1, Starting
P2 rekey timer: 24480 seconds.
Feb 13 23:48:56 [IKEv1]Group = 192.168.1.1, IP = 192.168.1.1, PHASE 2
COMPLETED (msgid=4c073b21)
```

## مدق ألتارادص إال او 8.3 تارادص إال ا ASA

## قفل الالشف ع قوم دي دحتل هذه اءاطخ الال ح صت رم او ا ل خ د ا :

- debug crypto isakmp 127 (1 ةل ح ر م ل ا)
- debug crypto ipsec 127 (2 ةل ح ر م ل ا)

ح ا ت ا ن ا ط ب ض ي ن م ل م ا ك ل ا ث م ا ن ه :

```
Feb 13 04:19:53 [IKEv1]: IP = 172.16.1.1, IKE_DECODE RECEIVED Message (msgid=0) with
payloads : HDR + SA (1) + VENDOR (13) + VENDOR (13) + VENDOR (13) + VENDOR (13) +
NONE (0) total length : 172
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing SA payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Oakley proposal is acceptable
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing VID payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Received NAT-Traversal ver 02 VID
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing VID payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Received NAT-Traversal ver 03 VID
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing VID payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Received NAT-Traversal RFC VID
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing VID payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Received Fragmentation VID
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, IKE Peer included IKE fragmentation
capability flags: Main Mode: True Aggressive Mode: True
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing IKE SA payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, IKE SA Proposal # 1, Transform # 1
acceptable Matches global IKE entry # 1
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, constructing ISAKMP SA payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, constructing NAT-Traversal VID ver
02 payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, constructing Fragmentation VID +
extended capabilities payload
Feb 13 04:19:53 [IKEv1]: IP = 172.16.1.1, IKE_DECODE SENDING Message (msgid=0) with
payloads : HDR + SA (1) + VENDOR (13) + VENDOR (13) + NONE (0) total length : 132
Feb 13 04:19:53 [IKEv1]: IP = 172.16.1.1, IKE_DECODE RECEIVED Message (msgid=0) with
payloads : HDR + KE (4) + NONCE (10) + VENDOR (13) + VENDOR (13) + VENDOR (13) +
VENDOR (13) + NAT-D (130) + NAT-D (130) + NONE (0) total length : 304
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing ke payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing ISA_KE payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing nonce payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing VID payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Received Cisco Unity client VID
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing VID payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Received xauth V6 VID
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing VID payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Processing VPN3000/ASA spoofing IOS
Vendor ID payload (version: 1.0.0, capabilities: 20000001)
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing VID payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Received Altiga/Cisco VPN3000/Cisco
ASA GW VID
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing NAT-Discovery payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, computing NAT Discovery hash
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, processing NAT-Discovery payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, computing NAT Discovery hash
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, constructing ke payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, constructing nonce payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, constructing Cisco Unity VID payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, constructing xauth V6 VID payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Send IOS VID
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Constructing ASA spoofing IOS Vendor
ID payload (version: 1.0.0, capabilities: 20000001)
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, constructing VID payload
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Send Altiga/Cisco VPN3000/Cisco
```

ASA GW VID

Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, constructing NAT-Discovery payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, computing NAT Discovery hash  
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, constructing NAT-Discovery payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, computing NAT Discovery hash  
**Feb 13 04:19:53 [IKEv1]: IP = 172.16.1.1, Connection landed on tunnel\_group 172.16.1.1**  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, Generating keys  
for Responder...  
Feb 13 04:19:53 [IKEv1]: IP = 172.16.1.1, IKE\_DECODE SENDING Message (msgid=0) with  
payloads : HDR + KE (4) + NONCE (10) + VENDOR (13) + VENDOR (13) + VENDOR (13) +  
VENDOR (13) + NAT-D (130) + NAT-D (130) + NONE (0) total length : 304  
Feb 13 04:19:53 [IKEv1]: IP = 172.16.1.1, IKE\_DECODE RECEIVED Message (msgid=0) with  
payloads : HDR + ID (5) + HASH (8) + IOS KEEPALIVE (128) + VENDOR (13) + NONE (0)  
total length : 96  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, processing  
ID payload  
Feb 13 04:19:53 [IKEv1 DECODE]: Group = 172.16.1.1, IP = 172.16.1.1, ID\_IPV4\_ADDR  
ID received 172.16.1.1  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, processing  
hash payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, Computing  
hash for ISAKMP  
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Processing IOS keep alive payload:  
proposal=32767/32767 sec.  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, processing  
VID payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, Received DPD VID  
**Feb 13 04:19:53 [IKEv1]: Group = 172.16.1.1, IP = 172.16.1.1, Automatic NAT Detection  
Status: Remote end is NOT behind a NAT device This end is NOT behind  
a NAT device**  
**Feb 13 04:19:53 [IKEv1]: IP = 172.16.1.1, Connection landed on tunnel\_group 172.16.1.1**  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1,  
constructing ID payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1,  
constructing hash payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1,  
Computing hash for ISAKMP  
Feb 13 04:19:53 [IKEv1 DEBUG]: IP = 172.16.1.1, Constructing IOS keep alive payload:  
proposal=32767/32767 sec.  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1,  
constructing dpd vid payload  
Feb 13 04:19:53 [IKEv1]: IP = 172.16.1.1, IKE\_DECODE SENDING Message (msgid=0) with  
payloads : HDR + ID (5) + HASH (8) + IOS KEEPALIVE (128) + VENDOR (13) + NONE (0)  
total length : 96  
**Feb 13 04:19:53 [IKEv1]: Group = 172.16.1.1, IP = 172.16.1.1, PHASE 1 COMPLETED**  
Feb 13 04:19:53 [IKEv1]: IP = 172.16.1.1, Keep-alive type for this connection: DPD  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, Starting P1  
rekey timer: 82080 seconds.  
Feb 13 04:19:53 [IKEv1 DECODE]: IP = 172.16.1.1, IKE Responder starting QM: msg id =  
4c073b21  
Feb 13 04:19:53 [IKEv1]: IP = 172.16.1.1, IKE\_DECODE RECEIVED Message  
(msgid=4c073b21) with payloads : HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) +  
ID (5) + NOTIFY (11) + NONE (0) total length : 200  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1,  
processing hash payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1,  
processing SA payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1,  
processing nonce payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1,  
processing ID payload  
Feb 13 04:19:53 [IKEv1 DECODE]: Group = 172.16.1.1, IP = 172.16.1.1,  
ID\_IPV4\_ADDR\_SUBNET ID received--10.2.2.0--255.255.255.0  
Feb 13 04:19:53 [IKEv1]: Group = 172.16.1.1, IP = 172.16.1.1, Received remote IP

Proxy Subnet data in ID Payload: Address 10.2.2.0, Mask 255.255.255.0,  
Protocol 0, Port 0  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1,  
processing ID payload  
Feb 13 04:19:53 [IKEv1 DECODE]: Group = 172.16.1.1, IP = 172.16.1.1,  
ID\_IPV4\_ADDR\_SUBNET ID received--10.1.1.0--255.255.255.0  
Feb 13 04:19:53 [IKEv1]: Group = 172.16.1.1, IP = 172.16.1.1, Received local IP  
Proxy Subnet data in ID Payload: Address 10.1.1.0, Mask 255.255.255.0,  
Protocol 0, Port 0  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, processing  
notify payload  
Feb 13 04:19:53 [IKEv1]: Group = 172.16.1.1, IP = 172.16.1.1, QM IsRekeyed old sa  
not found by addr  
Feb 13 04:19:53 [IKEv1]: Group = 172.16.1.1, IP = 172.16.1.1, Static Crypto Map  
check, checking map = outside\_map, seq = 20...  
**Feb 13 04:19:53 [IKEv1]: Group = 172.16.1.1, IP = 172.16.1.1, Static Crypto Map  
check, map outside\_map, seq = 20 is a successful match**  
**Feb 13 04:19:53 [IKEv1]: Group = 172.16.1.1, IP = 172.16.1.1, IKE Remote Peer  
configured for crypto map: outside\_map**  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, processing  
IPSec SA payload  
**Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, IPSec SA  
Proposal # 1, Transform # 1 acceptable Matches global IPSec SA entry # 20**  
Feb 13 04:19:53 [IKEv1]: Group = 172.16.1.1, IP = 172.16.1.1, IKE: requesting SPI!  
IPSEC: New embryonic SA created @ 0xAB5C63A8,  
SCB: 0xABD54E98,  
Direction: inbound  
SPI : 0x1BA0C55C  
Session ID: 0x00004000  
VPIF num : 0x00000001  
Tunnel type: l2l  
Protocol : esp  
Lifetime : 240 seconds  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, IKE got SPI  
from key engine: SPI = 0x1ba0c55c  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, oakley  
constucting quick mode  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, constructing  
blank hash payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, constructing  
IPSec SA payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, constructing  
IPSec nonce payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, constructing  
proxy ID  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, Transmitting  
Proxy Id:  
Remote subnet: 10.2.2.0 Mask 255.255.255.0 Protocol 0 Port 0  
Local subnet: 10.1.1.0 mask 255.255.255.0 Protocol 0 Port 0  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, constructing  
qm hash payload  
Feb 13 04:19:53 [IKEv1 DECODE]: Group = 172.16.1.1, IP = 172.16.1.1, IKE Responder  
sending 2nd QM pkt: msg id = 4c073b21  
Feb 13 04:19:53 [IKEv1]: IP = 172.16.1.1, IKE\_DECODE SENDING Message  
(msgid=4c073b21) with payloads : HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) +  
ID (5) + NONE (0) total length : 172  
Feb 13 04:19:53 [IKEv1]: IP = 172.16.1.1, IKE\_DECODE RECEIVED Message  
(msgid=4c073b21) with payloads : HDR + HASH (8) + NONE (0) total length : 52  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, processing  
hash payload  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, loading all  
IPSEC SAs  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, Generating  
Quick Mode Key!



Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, NP encrypt rule look up for crypto map outside\_map 20 matching ACL 100: returned cs\_id=ab9302f0; rule=ab9309b0

Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, Generating Quick Mode Key!

IPSEC: New embryonic SA created @ 0xAB570B58,  
SCB: 0xABD55378,  
Direction: outbound  
SPI : 0x03FC9DB7  
Session ID: 0x00004000  
VPIF num : 0x00000001  
Tunnel type: 121  
Protocol : esp  
Lifetime : 240 seconds

IPSEC: Completed host OBSA update, SPI 0x03FC9DB7  
IPSEC: Creating outbound VPN context, SPI 0x03FC9DB7  
Flags: 0x00000005  
SA : 0xAB570B58  
SPI : 0x03FC9DB7  
MTU : 1500 bytes  
VCID : 0x00000000  
Peer : 0x00000000  
SCB : 0x01512E71  
Channel: 0xA7A98400

IPSEC: Completed outbound VPN context, SPI 0x03FC9DB7  
VPN handle: 0x0000F99C  
IPSEC: New outbound encrypt rule, SPI 0x03FC9DB7  
Src addr: 10.1.1.0  
Src mask: 255.255.255.0  
Dst addr: 10.2.2.0  
Dst mask: 255.255.255.0  
Src ports  
Upper: 0  
Lower: 0  
Op : ignore  
Dst ports  
Upper: 0  
Lower: 0  
Op : ignore  
Protocol: 0  
Use protocol: false  
SPI: 0x00000000  
Use SPI: false

IPSEC: Completed outbound encrypt rule, SPI 0x03FC9DB7  
Rule ID: 0xABD557B0  
IPSEC: New outbound permit rule, SPI 0x03FC9DB7  
Src addr: 192.168.1.1  
Src mask: 255.255.255.255  
Dst addr: 172.16.1.1  
Dst mask: 255.255.255.255  
Src ports  
Upper: 0  
Lower: 0  
Op : ignore  
Dst ports  
Upper: 0  
Lower: 0  
Op : ignore  
Protocol: 50  
Use protocol: true  
SPI: 0x03FC9DB7  
Use SPI: true

IPSEC: Completed outbound permit rule, SPI 0x03FC9DB7  
Rule ID: 0xABD55848

Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, NP encrypt rule  
look up for crypto map outside\_map 20 matching ACL 100: returned cs\_id=ab9302f0;  
rule=ab9309b0

Feb 13 04:19:53 [IKEv1]: Group = 172.16.1.1, IP = 172.16.1.1, Security negotiation  
complete for LAN-to-LAN Group (172.16.1.1) Responder, Inbound SPI = 0x1ba0c55c,  
Outbound SPI = 0x03fc9db7

Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, IKE got a  
KEY\_ADD msg for SA: SPI = 0x03fc9db7

IPSEC: Completed host IBSA update, SPI 0x1BA0C55C  
IPSEC: Creating inbound VPN context, SPI 0x1BA0C55C  
Flags: 0x00000006  
SA : 0xAB5C63A8  
SPI : 0x1BA0C55C  
MTU : 0 bytes  
VCID : 0x00000000  
Peer : 0x0000F99C  
SCB : 0x0150B419  
Channel: 0xA7A98400  
IPSEC: Completed inbound VPN context, SPI 0x1BA0C55C  
VPN handle: 0x0001169C  
IPSEC: Updating outbound VPN context 0x0000F99C, SPI 0x03FC9DB7  
Flags: 0x00000005  
SA : 0xAB570B58  
SPI : 0x03FC9DB7  
MTU : 1500 bytes  
VCID : 0x00000000  
Peer : 0x0001169C  
SCB : 0x01512E71  
Channel: 0xA7A98400  
IPSEC: Completed outbound VPN context, SPI 0x03FC9DB7  
VPN handle: 0x0000F99C  
IPSEC: Completed outbound inner rule, SPI 0x03FC9DB7  
Rule ID: 0xABD557B0  
IPSEC: Completed outbound outer SPD rule, SPI 0x03FC9DB7  
Rule ID: 0xABD55848  
IPSEC: New inbound tunnel flow rule, SPI 0x1BA0C55C  
Src addr: 10.2.2.0  
Src mask: 255.255.255.0  
Dst addr: 10.1.1.0  
Dst mask: 255.255.255.0  
Src ports  
Upper: 0  
Lower: 0  
Op : ignore  
Dst ports  
Upper: 0  
Lower: 0  
Op : ignore  
Protocol: 0  
Use protocol: false  
SPI: 0x00000000  
Use SPI: false  
IPSEC: Completed inbound tunnel flow rule, SPI 0x1BA0C55C  
Rule ID: 0xAB8D98A8  
IPSEC: New inbound decrypt rule, SPI 0x1BA0C55C  
Src addr: 172.16.1.1  
Src mask: 255.255.255.255  
Dst addr: 192.168.1.1  
Dst mask: 255.255.255.255  
Src ports  
Upper: 0  
Lower: 0  
Op : ignore  
Dst ports

Upper: 0  
Lower: 0  
Op : ignore  
Protocol: 50  
Use protocol: true  
SPI: 0x1BA0C55C  
Use SPI: true  
IPSEC: Completed inbound decrypt rule, SPI 0x1BA0C55C  
Rule ID: 0xABD55CB0  
IPSEC: New inbound permit rule, SPI 0x1BA0C55C  
Src addr: 172.16.1.1  
Src mask: 255.255.255.255  
Dst addr: 192.168.1.1  
Dst mask: 255.255.255.255  
Src ports  
Upper: 0  
Lower: 0  
Op : ignore  
Dst ports  
Upper: 0  
Lower: 0  
Op : ignore  
Protocol: 50  
Use protocol: true  
SPI: 0x1BA0C55C  
Use SPI: true  
IPSEC: Completed inbound permit rule, SPI 0x1BA0C55C  
Rule ID: 0xABD55D48  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, Pitcher: received  
KEY\_UPDATE, spi 0x1ba0c55c  
Feb 13 04:19:53 [IKEv1 DEBUG]: Group = 172.16.1.1, IP = 172.16.1.1, Starting P2 rekey  
timer: 27360 seconds.  
**Feb 13 04:19:53 [IKEv1]: Group = 172.16.1.1, IP = 172.16.1.1, PHASE 2 COMPLETED  
(msgid=4c073b21)**

ةمچرتل هذه لوج

ةللأل تاي نقتل نمة ومة مادختساب دن تسمل اذة Cisco تمةرت  
ملاعلاء انء مء مء نمة دختسمل معد و تمة مء دقتل ةر شبل او  
امك ةق قء نوك ت نل ةللأل ةمچرت لصف أن ةظحال مء ءرء. ةصاأل مء تءل ب  
Cisco ةلخت. فرتمة مچرت مء دقء ةل ةل ةفارتحال ةمچرتل عم لالحل وه  
ىل إأمءءاد ءوچرلاب ةصوء و تامةرتل هذه ةقء نء اهءل وئس م Cisco  
Systems (رفوتم طبارل) ةلصلأل ةزءل ءن إلل دن تسمل