

جوم ىل Cisco VPN 3002 ةزهجأ لي مع نيكوت دادتما عضو في EzVPN مادختساب Cisco IOS ةكبشلا

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المقدمة

يصف هذا المستند تكوين عميل جهاز Cisco IOS®Cisco VPN 3002 في وضع امتداد الشبكة باستخدام برنامج Cisco IOS الإصدار 12.2(8)T ووظائف خادم Easy VPN (EzVPN). وهذا يسمح لـ Cisco IOS EZVPN التي تأتي من عملاء، مثل عملاء VPN، PIX، و Cisco IOS EZVPN. هناك جزء صغير من خمسة اقترانات أمان (SAs) (واحد تبادل مفتاح الانترنت [IKE] بالإضافة إلى أربعة IPSec) عند اتصال عميل VPN بجهاز وحدة الاستقبال والبث. وهذا يرجع إلى حقيقة أنه عندما يتصل عميل الشبكة الخاصة الظاهرية (VPN) بنقطة الاستقبال والبث، فإنه يتفاوض دائمًا بين وحدتي خدمة IPSec باستخدام عنوان IP الخاص بواجهة التركيز العامة لعنوان IP الخاص بنقطة الاستقبال والبث. يتم استخدام هذا النفق لأغراض الإدارة لاتصال بعميل VPN من وحدة الاستقبال والبث إما من خلال واجهة المستخدم الرسومية (GUI) أو واجهة سطر الأوامر (CLI). ويتم ذلك تلقائيًا. الآخر لالمعطيات حركة مرور بين الشبكة خلف آل VPN زبون وال Cisco IOS مسحاج تخديد.

ارجع إلى [تكوين عميل أجهزة Cisco VPN 3002 إلى PIX 6.x](#) لمعرفة المزيد حول نفس السينario حيث يكون خادم VPN هو PIX 6.x.

ارجع إلى [تكوين اتصال بين عميل أجهزة Cisco VPN 3002 ومحفظة Cisco 3000 Series](#) لمعرفة المزيد حول السينario نفسه حيث يكون خادم VPN هو مركز Cisco VPN 3000 Series.

المتطلبات الأساسية

المتطلبات

لا توجد متطلبات خاصة لهذا المستند.

المكونات المستخدمة

تستند المعلومات الواردة في هذا المستند إلى إصدارات البرامج والمكونات المادية التالية:

• عميل أجهزة Cisco VPN 3002

• برنامج IOS الإصدار 12.2(8)T من Cisco والإصدارات الأحدث

تم إنشاء المعلومات الواردة في هذا المستند من الأجهزة الموجودة في بيئه معملية خاصة. بدأت جميع الأجهزة المستخدمة في هذا المستند بتكون ممروحة (افتراضي). إذا كانت شبكتك مباشرة، فتأكد من فهمك للتأثير المحتمل لأي أمر.

الاصطلاحات

راجع [اصطلاحات تلميحات Cisco التقنية](#) للحصول على مزيد من المعلومات حول اصطلاحات المستندات.

التكوينات

في هذا القسم، تُقدم لك معلومات تكوين الميزات الموضحة في هذا المستند.

ملاحظة: أستخدم [أداة بحث الأوامر](#) (للعلماء [المسجلين](#) فقط) للعثور على مزيد من المعلومات حول الأوامر المستخدمة في هذا المستند.

الرسم التخطيطي للشبكة

يستخدم هذا المستند إعداد الشبكة التالي:



يستخدم هذا المستند هذه التكوينات.

- [Cisco IOS من](#)
- [Cisco VPN 3002](#)
- [عميل أجهزة](#)

Cisco من IOS وجه
<pre> akim#show running Current configuration : 1449 bytes ! version 12.2 </pre>

```

        service config
        service timestamps debug uptime
        service timestamps log uptime
        no service password-encryption
        !
        hostname akim
        !
Enable Authentication, Authorizing and Accounting ---!
(AAA) --- for user authentication and group
authorization. aaa new-model
To enable X-Auth for user authentication, !--- ---!
enable the AAA commands. aaa authentication login
userauthen local
To enable group authorization, !--- enable the AAA ---!
commands. aaa authorization network groupauthor local
aaa session-id common
!
Define the username and password to be used for X- ---!
Auth. username fadi password 0 cisco memory-size iomem
10 ip subnet-zero ! ! ! !--- Create an Internet Security
Association and !--- Key Management Protocol (ISAKMP)
policy for Phase 1 negotiations. crypto isakmp policy 3
encr 3des
authentication pre-share
group 2
!
Create a group with the pre-shared key for IKE ---!
authentication. crypto isakmp client configuration group
fadigroup
key cisco123
!
!
Create the Phase 2 policy for actual data ---!
encryption. crypto ipsec transform-set myset esp-3des
esp-sha-hmac
!
Create a dynamic map and !--- apply the transform ---!
set that was created earlier. crypto dynamic-map dynmap
10
set transform-set myset
!
Create the actual crypto map, !--- and apply the ---!
AAA lists that were created earlier. !--- These commands
associate the AAA commands to the crypto map. crypto map
clientmap client authentication list userauthen
crypto map clientmap isakmp authorization list
groupauthor
crypto map clientmap 10 ipsec-isakmp dynamic dynmap
!
!
!
!
!
fax interface-type fax-mail
mta receive maximum-recipients 0
!
!
!
!
Apply the crypto map on the interface where !--- ---!
traffic leaves the router. interface FastEthernet0/0

```

```

ip address 209.165.202.129 255.255.255.224
    duplex auto
    speed auto
crypto map clientmap
!
interface Serial0/0
    no ip address
    shutdown
    no fair-queue
    clockrate 2000000
!
interface FastEthernet0/1
ip address 10.48.220.1 255.255.254.0
    duplex auto
    speed auto
!
interface Serial0/1
    no ip address
    shutdown
    clockrate 2000000
!
ip classless
ip route 0.0.0.0 0.0.0.0 209.165.202.130
    ip http server
    ip pim bidir-enable
!
!
!
!
call rsvp-sync
!
!
mgcp profile default
!
dial-peer cor custom
!
!
!
!
line con 0
exec-timeout 0 0
    line aux 0
    line vty 0 4
!
!
end

```

تكوين عمل أجهزة Cisco VPN 3002

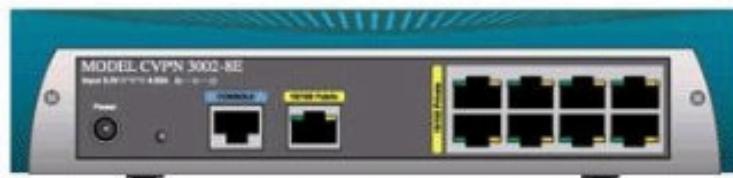
أتمت هذا steps in order to VPN زبون:

1. اخترت تشكيل <قارن وفحصت العنوان.

This section lets you configure the VPN 3002 Hardware Client's network interfaces.

In the table below, or in the picture, select and click the interface you want to configure:

Interface	Status	IP Address	Subnet Mask	MAC Address	Default Gateway
Ethernet 1 (Private)	UP	10.48.66.185	255.255.254.0	00:05:31:98:00:0A	
Ethernet 2 (Public)	UP	209.165.200.225	255.255.255.224	00:05:31:98:00:0B	209.165.200.226
DNS Server(s)	DNS Server Not Configured				
DNS Domain Name					



2. حدد تكوين < سريع >< الوقت والتاريخ > الوقت لتعيين الوقت والتحقق من صحته.

Set the time on your device. The correct time is very important, so that logging entries are accurate.

The current time on this device is Thursday, 30 May 2002 16:17:11.

New Time : : / / (GMT+01:00) Paris

Enable DST Support

Click to go back without saving changes

Click to save changes and continue

3. أختارت تشكيل < سريع >< قارن خاص >< قارن خاص > قارن خاص أن يشكل العنوان ساكن إستاتيكي على المضيف داخلي (ما من DHCP).

4. حدد لا ل "هل تريد تكوين عنوان IP الخاص للواجهة الخاصة؟".

5. حدد لا، ألا تستخدم خادم DHCP لتقديم عناوين ل "هل تريد استخدام خادم DHCP على الواجهة 1 لتقديم عناوين للشبكة المحلية؟"



You are modifying the interface you are using to connect to this device. If you make any changes, you will be logged off the device.

IP Address 10.48.66.185 / 255.255.254.0

DHCP Server Enabled (10.48.66.58 - 10.48.66.184)

Do you want to configure the IP address of the Private Interface?

- Yes
- No

Do you want to use the DHCP server on Interface 1 to provide addresses for the local LAN?

- Yes, and configure the DHCP server parameters.
- Yes, but leave the DHCP server parameters as is.
- No, do not use the DHCP server to provide addresses.

↶ Click to go back without making any changes

↓ Click to make changes and continue

Back

Continue

6. عينت عنوان إن يتلقي أنت ساكن إستاتيكي بتحديد تشكيل < سريع > قارن عام < عام .
7. من نافذة الواجهة العامة، حدد تحديد عنوان IP وأدخل عنوان IP المناسب وقناع الشبكة الفرعية والمدخل الافتراضي.

Configuration | Quick | Public Interface**Time****Upload Config****Private Intf ✓****Public Intf****IPSec****System Name (a.k.a. hostname) may be required to be set if you use DHCP to obtain an address.****System Name** **How do you want to configure the IP address of the Public Interface ?**

- Obtain an IP address from a DHCP server
- Use PPPoE to connect to a public network

PPPoE User Name **PPPoE Password** **Verify PPPoE Password**

- Specify an IP address

IP Address **Subnet Mask** **Default Gateway**

↙ Click to go back without saving any changes

↙ Click to save changes and continue

Back**Continue**

8. قم بتكوين نظير VPN البعيد (عنوان IP العام للموجه). للقيام بذلك، حدد تكوين < سريع > IPSec وأدخل مجموعة الملفات التالية لاسم المجموعة، و Cisco123 لكلمة مرور المجموعة، و fadi لاسم المستخدم، و fadi ككلمة مرور المستخدم.

Remote Server <input type="text" value="209.165.202.129"/>	Enter remote server address/host name.		
IPSec over TCP <input type="checkbox"/>	Check to enable IPSec over TCP.		
IPSec over TCP Port <input type="text" value="1500"/>	Enter IPSec over TCP port (1 - 65535).		
Use Certificate <input type="checkbox"/>	Click to use the installed certificate.		
Certificate Transmission	<input type="radio"/> Entire certificate chain <input checked="" type="radio"/> Identity certificate only	Choose how to send the digital certificate to the server.	
Group <input type="text" value="fadigroup"/>	Name <input type="text"/>	Password <input type="password"/>	Verify <input type="password"/>
User <input type="text" value="fadi"/>	<input type="text"/>	<input type="password"/>	<input type="password"/>

9. أخترت تشکیل < سريع > ضرب واخترت لا، إستعمال شبكة ملحق أسلوب من ال ضرب نافذة أن يشكل شبكة امتداد أسلوب.

Configuration | Quick | PAT

Time **Upload Config** **Private Intf ✓** **Public Intf ✓**

Do you want to use PAT on the IP Sec tunnel to the VPN Concentrator?

Yes

No, use Network Extension mode

⬅ Click to go back without making any changes
➡ Click to make changes and continue

Back **Continue**

10. حدد التكوين quick وأدخل خادم DNS واسم المجال لـ ISP لتكون

Configuration | Quick | DNS

Time **Upload Config** **Private Intf ✓** **Public Intf ✓**

Configure the ISP's DNS server IP address. Enter 0.0.0.0 to not use DNS.

DNS Server

Domain

⬅ Click to go back without making any changes
➡ Click to make changes and continue

Back **Continue**

DNS

11. حدد تكوين سريع > المسارات الثابتة وانقر فوق إضافة لإضافة مسار ثابت إلى جدول التوجيه لتكون البوابة الافتراضية لعميل .VPN

التحقق من الصحة

يتوفر هذا القسم معلومات يمكنك استخدامها للتأكد من أن التكوين يعمل بشكل صحيح. تدعم [أداة مترجم الإخراج \(للعملاء المسجلين فقط\)](#) بعض [أوامر show](#). استخدم أداة مترجم الإخراج (OIT) لعرض تحليل مخرج الأمر [show](#).

ارجع إلى [استكشاف أخطاء أمان IP واصلاحها - فهم أوامر debug](#) واستخدامها لأوامر [show](#) ذات الصلة.

استكشاف الأخطاء واصلاحها

يتوفر هذا القسم معلومات يمكنك استخدامها لاستكشاف أخطاء التكوين [واصلاحها](#).
ملاحظة: إن ضرب يمكن استعملت في 3002 VPN cisco زبون، ال reload يزيل ال username وكلمة أن يتواجد. يجب تكوين اسم المستخدم وكلمة المرور الجديدين للعميل.
ملاحظة: إن ضرب يعجز (NEM) يكون استعملت، ال reload يحتفظ ال username وكلمة provided that الرأس نهاية يكون شكلت أن ينقذ ال username وكلمة.

اجراء استكشاف الأخطاء واصلاحها

هذه معلومات [استكشاف الأخطاء واصلاحها](#) المتعلقة بهذا التكوين. للحصول على معلومات إضافية حول [استكشاف الأخطاء واصلاحها](#)، ارجع إلى [استكشاف أخطاء أمان IP واصلاحها - فهم أوامر debug](#) واستخدامها. أكمل الخطوات التالية لاستكشاف أخطاء التكوين [واصلاحها](#):

1. تأكد من الاطلاع على المرحلة الأولى وإنشاء المرحلة الثانية. استخدم الخط الأساسي تصحيح الأخطاء في قسم [أوامر استكشاف الأخطاء واصلاحها](#).
2. ما إن يرى أنت ال SAs، أرسلت حركة مرور بين الشبكة محمي أن يختبر الموصولة.

أوامر استكشاف الأخطاء واصلاحها

تدعم [أداة مترجم الإخراج \(للعملاء المسجلين فقط\)](#) بعض [أوامر show](#). استخدم أداة مترجم الإخراج (OIT) لعرض تحليل مخرج الأمر [show](#).

ملاحظة: ارجع إلى [معلومات مهمة حول أوامر التصحيح](#) قبل استخدام أوامر debug.

.debug crypto ipSec • يعرض أحداث IPSec.

.debug crypto isakmp • يعرض الرسائل المتعلقة بأحداث IKE.

.debug crypto engine • يعرض رسائل تصحيح الأخطاء حول محركات التشفير، التي تقوم بالتشифر وفك

التشيف.

```
Cisco IOS has received a request for new SA from the VPN Client. 03:36:19: ISAKMP (0:0): ---!
received packet from 209.165.200.225 (N) NEW SA 03:36:19: ISAKMP: local port 500, remote port
500 03:36:19: ISAKMP (0:1): (Re)Setting client xauth list userauthen and state 03:36:19: ISAKMP:
Locking CONFIG struct 0x631B752C from crypto_ikmp_config_initialize_sa, count 1 03:36:19: ISAKMP
(0:1): processing SA payload. message ID = 0 03:36:19: ISAKMP (0:1): processing ID payload.
message ID = 0 03:36:19: ISAKMP (0:1): processing vendor id payload 03:36:19: ISAKMP (0:1):
vendor ID seems Unity/DPD but bad major 03:36:19: ISAKMP (0:1): vendor ID is XAUTH 03:36:19:
ISAKMP (0:1): processing vendor id payload 03:36:19: ISAKMP (0:1): vendor ID is Unity !--- Cisco
IOS checks the incoming ISAKMP proposal with the policy !--- defined in Cisco IOS. 03:36:19:
ISAKMP (0:1): Checking ISAKMP transform 1 against priority 3 policy 03:36:19: ISAKMP: default
group 2 03:36:19: ISAKMP: encryption 3DES-CBC 03:36:19: ISAKMP: hash SHA 03:36:19: ISAKMP: auth
XAUTHInitPreShared 03:36:19: ISAKMP: life type in seconds 03:36:19: ISAKMP: life duration (VPI)
of 0x7F 0xFF 0xFF 0x00 03:36:19: ISAKMP (0:1): atts are acceptable. Next payload is 3 03:36:19:
CryptoEngine0: generate alg parameter 03:36:19: CRYPTO_ENGINE: Dh phase 1 status: 0 03:36:19:
CRYPTO_ENGINE: Dh phase 1 status: 0 03:36:19: ISAKMP (0:1): processing KE payload. message ID =
0 03:36:19: CryptoEngine0: generate alg parameter 03:36:19: ISAKMP (0:1): processing NONCE
payload. message ID = 0 03:36:19: ISAKMP (0:1): processing vendor id payload 03:36:19: ISAKMP
(0:1): vendor ID seems Unity/DPD but bad major 03:36:19: ISAKMP (0:1): vendor ID is XAUTH
03:36:19: ISAKMP (0:1): processing vendor id payload 03:36:19: ISAKMP (0:1): vendor ID is Unity
03:36:19: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH Old State = IKE_READY New State
= IKE_R_AM_AAA_AWAIT 03:36:19: ISAKMP: got callback 1 03:36:19: CryptoEngine0: create ISAKMP
SKEYID for conn id 1 03:36:19: ISAKMP (0:1): SKEYID state generated 03:36:19: ISAKMP (0:1): SA
is doing pre-shared key authentication plux XAUTH using id type ID_IPV4_ADDR 03:36:19: ISAKMP
(1): ID payload next-payload : 10 type : 1 protocol : 17 port : 500 length : 8 03:36:19: ISAKMP
(1): Total payload length: 12 03:36:19: CryptoEngine0: generate hmac context for conn id 1
03:36:19: ISAKMP (0:1): sending packet to 209.165.200.225 (R) AG_INIT_EXCH 03:36:19: ISAKMP
(0:1): Input = IKE_MESG_FROM_AAA, PRESHARED_KEY_REPLY Old State = IKE_R_AM_AAA_AWAIT New State =
IKE_R_AM2 03:36:27: ISAKMP (0:1): received packet from 209.165.200.225 (R) AG_INIT_EXCH
03:36:28: ISAKMP (0:1): sending packet to 209.165.200.225 (R) AG_INIT_EXCH 03:36:28: ISAKMP
(0:1): received packet from 209.165.200.225 (R) AG_INIT_EXCH 03:36:28: ISAKMP (0:1): processing
HASH payload. message ID = 0 03:36:28: CryptoEngine0: generate hmac context for conn id 1
03:36:28: ISAKMP (0:1): processing NOTIFY INITIAL_CONTACT protocol 1 spi 0, message ID = 0, sa =
63393F7C 03:36:28: ISAKMP (0:1): Process initial contact, bring down existing phase 1 and 2 SA's
03:36:28: ISAKMP (0:1): returning IP addr to the address pool 03:36:28: ISAKMP (0:1): peer does
not do paranoid keepalives. 03:36:28: ISAKMP (0:1): processing vendor id payload 03:36:28:
ISAKMP (0:1): vendor ID is DPD !--- Phase 1 is now complete and ISAKMP SA is negotiated.
03:36:28: ISAKMP (0:1): SA has been authenticated with 209.165.200.225 03:36:28: CryptoEngine0:
clear dh number for conn id 1 03:36:28: CryptoEngine0: generate hmac context for conn id 1
03:36:28: ISAKMP (0:1): sending packet to 209.165.200.225 (R) QM_IDLE 03:36:28: ISAKMP (0:1):
purging node -2033367886 03:36:28: ISAKMP: Sending phase 1 responder lifetime 86400 03:36:28:
ISAKMP (0:1): Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH Old State = IKE_R_AM2 New State =
IKE_P1_COMPLETE 03:36:28: IPSEC(key_engine): got a queue event... 03:36:28:
IPSEC(key_engine_delete_sas): rec'd delete notify from ISAKMP 03:36:28:
IPSEC(key_engine_delete_sas): delete all SAs shared with 209.165.200.225 !--- Proceed to the
Extended Authentication. !--- Remember that XAUTH is done before Phase 2 and after Phase 1.
03:36:28: ISAKMP (0:1): Need XAUTH 03:36:28: ISAKMP (0:1): Input = IKE_MESG_INTERNAL,
IKE_PHASE1_COMPLETE Old State = IKE_P1_COMPLETE New State = IKE_XAUTH_AAA_START_LOGIN_AWAIT
03:36:28: ISAKMP: got callback 1 03:36:28: ISAKMP/xauth: request attribute XAUTH_TYPE_V2
03:36:28: ISAKMP/xauth: request attribute XAUTH_MESSAGE_V2 03:36:28: ISAKMP/xauth: request
attribute XAUTH_USER_NAME_V2 03:36:28: ISAKMP/xauth: request attribute XAUTH_USER_PASSWORD_V2
03:36:28: CryptoEngine0: generate hmac context for conn id 1 03:36:28: ISAKMP (0:1): initiating
peer config to 209.165.200.225. ID = 1189186805 03:36:28: ISAKMP (0:1): sending packet to
209.165.200.225 (R) CONF_XAUTH 03:36:28: ISAKMP (0:1): Input = IKE_MESG_FROM_AAA,
```

```

IKE_AAA_START_LOGIN Old State = IKE_XAUTH_AAA_START_LOGIN_AWAIT New State = IKE_XAUTH_REQ_SENT
03:36:28: ISAKMP (0:1): received packet from 209.165.200.225 (R) CONF_XAUTH 03:36:28: ISAKMP
(0:1): processing transaction payload from 209.165.200.225. message ID = 1189186805 03:36:28:
CryptoEngine0: generate hmac context for conn id 1 03:36:28: ISAKMP: Config payload REPLY
03:36:28: ISAKMP/xauth: reply attribute XAUTH_USER_NAME_V2 03:36:28: ISAKMP/xauth: reply
attribute XAUTH_USER_PASSWORD_V2 03:36:28: ISAKMP (0:1): deleting node 1189186805 error FALSE
reason "done with xauth request/reply exchange" 03:36:28: ISAKMP (0:1): Input =
IKE_MESG_FROM_PEER, IKE_CFG_REPLY Old State = IKE_XAUTH_REQ_SENT New State =
IKE_XAUTH_AAA_CONT_LOGIN_AWAIT 03:36:28: ISAKMP: got callback 1 03:36:28: CryptoEngine0:
generate hmac context for conn id 1 03:36:28: ISAKMP (0:1): initiating peer config to
209.165.200.225. ID = 1490194005 03:36:28: ISAKMP (0:1): sending packet to 209.165.200.225 (R)
CONF_XAUTH 03:36:28: ISAKMP (0:1): Input = IKE_MESG_FROM_AAA, IKE_AAA_CONT_LOGIN Old State =
IKE_XAUTH_AAA_CONT_LOGIN_AWAIT New State = IKE_XAUTH_SET_SENT 03:36:28: ISAKMP (0:1): received
packet from 209.165.200.225 (R) CONF_XAUTH 03:36:28: ISAKMP (0:1): processing transaction
payload from 209.165.200.225. message ID = 1490194005 03:36:28: CryptoEngine0: generate hmac
context for conn id 1 03:36:28: ISAKMP: Config payload ACK 03:36:28: ISAKMP (0:1): XAUTH ACK
Processed 03:36:28: ISAKMP (0:1): deleting node 1490194005 error FALSE reason "done with
transaction" 03:36:28: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER, IKE_CFG_ACK Old State =
IKE_XAUTH_SET_SENT New State = IKE_P1_COMPLETE 03:36:28: ISAKMP (0:1): received packet from
209.165.200.225 (R) QM_IDLE 03:36:28: ISAKMP (0:1): processing transaction payload from
209.165.200.225. message ID = 113305927 03:36:28: CryptoEngine0: generate hmac context for conn
id 1 03:36:28: ISAKMP: Config payload REQUEST 03:36:28: ISAKMP (0:1): checking request:
03:36:28: ISAKMP: IP4_DNS 03:36:28: ISAKMP: IP4_DNS 03:36:28: ISAKMP: IP4_NBNS 03:36:28: ISAKMP:
IP4_NBNS 03:36:28: ISAKMP: SPLIT_INCLUDE 03:36:28: ISAKMP: DEFAULT_DOMAIN 03:36:28: ISAKMP:
UNKNOWN Unknown Attr: 0x7005 03:36:28: ISAKMP: UNKNOWN Unknown Attr: 0x7007 03:36:28: ISAKMP:
UNKNOWN Unknown Attr: 0x7800 03:36:28: ISAKMP: UNKNOWN Unknown Attr: 0x7801 03:36:28: ISAKMP:
UNKNOWN Unknown Attr: 0x7802 03:36:28: ISAKMP: UNKNOWN Unknown Attr: 0x7803 03:36:28: ISAKMP:
UNKNOWN Unknown Attr: 0x7804 03:36:28: ISAKMP: UNKNOWN Unknown Attr: 0x7805 03:36:28: ISAKMP:
UNKNOWN Unknown Attr: 0x7806 03:36:28: ISAKMP: UNKNOWN Unknown Attr: 0x7009 03:36:28: ISAKMP:
APPLICATION_VERSION 03:36:28: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER, IKE_CFG_REQUEST Old
State = IKE_P1_COMPLETE New State = IKE_CONFIG_AUTHOR_AAA_AWAIT 03:36:28: ISAKMP (0:1): Unknown
Input: state = IKE_CONFIG_AUTHOR_AAA_AWAIT, major, minor = IKE_MESG_INTERNAL,
IKE_PHASE1_COMPLETE 03:36:28: ISAKMP: got callback 1 03:36:28: ISAKMP (0:1): Config attributes
requested but config attributes not in crypto map. Sending empty reply. 03:36:28: ISAKMP (0:1):
attributes sent in message: 03:36:28: ISAKMP: Unknown Attr: UNKNOWN (0x7005) 03:36:28: ISAKMP:
Unknown Attr: UNKNOWN (0x7007) 03:36:28: ISAKMP: Unknown Attr: UNKNOWN (0x7800) 03:36:28:
ISAKMP: Unknown Attr: UNKNOWN (0x7801) 03:36:28: ISAKMP: Unknown Attr: UNKNOWN (0x7802)
03:36:28: ISAKMP: Unknown Attr: UNKNOWN (0x7803) 03:36:28: ISAKMP: Unknown Attr: UNKNOWN
(0x7804) 03:36:28: ISAKMP: Unknown Attr: UNKNOWN (0x7805) 03:36:28: ISAKMP: Unknown Attr:
UNKNOWN (0x7806) 03:36:28: ISAKMP: Unknown Attr: UNKNOWN (0x7009) 03:36:28: ISAKMP:
Sending APPLICATION_VERSION string: Cisco Internetwork Operating System Software IOS (tm) 3600 Software
(C3640-JK9S-M), Version 12.2(8)T1, RELEASE SOFTWARE (fc2) TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2002 by cisco Systems, Inc. Compiled Sun 31-Mar-02 03:30 by ccai 03:36:28:
CryptoEngine0: generate hmac context for conn id 1 03:36:28: ISAKMP (0:1): responding to peer
config from 209.165.200.225. ID = 113305927 03:36:28: ISAKMP (0:1): sending packet to
209.165.200.225 (R) CONF_ADDR 03:36:28: ISAKMP (0:1): deleting node 113305927 error FALSE reason
"" 03:36:28: ISAKMP (0:1): Input = IKE_MESG_FROM_AAA, IKE_AAA_GROUP_ATTR Old State =
IKE_CONFIG_AUTHOR_AAA_AWAIT New State = IKE_P1_COMPLETE 03:36:28: ISAKMP (0:1): received packet
from 209.165.200.225 (R) QM_IDLE 03:36:28: CryptoEngine0: generate hmac context for conn id 1
03:36:28: ISAKMP (0:1): processing HASH payload. message ID = 1022849755 03:36:28: ISAKMP (0:1):
processing SA payload. message ID = 1022849755 !--- ISAKMP now verifies the IPSec proposal !---
to see if it is acceptable. 03:36:28: ISAKMP (0:1): Checking IPSec proposal 1 03:36:28: ISAKMP:
transform 1, ESP_3DES 03:36:28: ISAKMP: attributes in transform: 03:36:28: ISAKMP: SA life type
in seconds 03:36:28: ISAKMP: SA life duration (VPI) of 0x7F 0xFF 0xFF 0xFF 03:36:28: ISAKMP:
encaps is 1 03:36:28: ISAKMP: authenticator is HMAC-SHA 03:36:28: validate proposal 0 03:36:28:
ISAKMP (0:1): atts are acceptable. !--- As the attributes are acceptable, ISAKMP asks !--- IPSec
to validate the proposal. 03:36:28: IPSEC(validate_proposal_request): proposal part #1, (key
eng. msg.) INBOUND local= 209.165.202.129, remote= 209.165.200.225, local_proxy=
209.165.202.129/255.255.255.255/0/0 (type=1), remote_proxy= 209.165.200.225/255.255.255.255/0/0
(type=1), protocol= ESP, transform= esp-3des esp-sha-hmac , lifedur= 0s and 0kb, spi= 0x0(0),
conn_id= 0, keysize= 0, flags= 0x4 03:36:28: validate proposal request 0 03:36:28: ISAKMP (0:1):
processing NONCE payload. message ID = 1022849755 03:36:28: ISAKMP (0:1): processing ID payload.
message ID = 1022849755 03:36:28: ISAKMP (0:1): processing ID payload. message ID = 1022849755
03:36:28: ISAKMP (0:1): asking for 1 spis from ipsec 03:36:28: ISAKMP (0:1): Node 1022849755,
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Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH Old State = IKE_QM_READY New State = IKE_QM_SPI_STARVE
 03:36:28: IPSEC(key_engine): got a queue event... 03:36:28: IPSEC(spi_response): getting spi
1910172102 for SA from 209.165.202.129 to 209.165.200.225 for prot 3 03:36:28: ISAKMP: received
ke message (2/1) 03:36:28: CryptoEngine0: generate hmac context for conn id 1 03:36:28: ISAKMP
(0:1): sending packet to 209.165.200.225 (R) QM_IDLE 03:36:28: ISAKMP (0:1): Node 1022849755,
      Input = IKE_MESG_FROM_IPSEC, IKE_SPI_REPLY Old State = IKE_QM_SPI_STARVE New State =
IKE_QM_R_QM2 03:36:28: ISAKMP (0:1): received packet from 209.165.200.225 (R) QM_IDLE 03:36:28:
      CryptoEngine0: generate hmac context for conn id 1 03:36:28: ipsec allocate flow 0 03:36:28:
ipsec allocate flow 0 !--- After IPsec validates the proposal, !--- IPsec proceeds to create the
IPsec SAs. 03:36:28: ISAKMP (0:1): Creating IPsec SAs 03:36:28: inbound SA from 209.165.200.225
to 209.165.202.129 (proxy 209.165.200.225 to 209.165.202.129) 03:36:28: has spi 0x71DAE9C6 and
conn_id 2000 and flags 4 03:36:28: lifetime of 2147483647 seconds 03:36:28: outbound SA from
209.165.202.129 to 209.165.200.225 (proxy 209.165.202.129 to 209.165.200.225) 03:36:28: has spi
101033821 and conn_id 2001 and flags C 03:36:28: lifetime of 2147483647 seconds 03:36:28: ISAKMP
(0:1): deleting node 1022849755 error FALSE reason "quick mode done (await())" 03:36:28: ISAKMP
(0:1): Node 1022849755, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH Old State = IKE_QM_R_QM2 New
State = IKE_QM_PHASE2_COMPLETE 03:36:28: IPSEC(key_engine): got a queue event... 03:36:28:
      IPSEC(initialize_sas): , (key eng. msg.) INBOUND local= 209.165.202.129, remote=
209.165.200.225, !--- This is the management tunnel. local_proxy= 209.165.202.129/0.0.0.0/0
      ,((type=1
      ,(remote_proxy= 209.165.200.225/0.0.0.0/0/0 (type=1
      , protocol= ESP, transform= esp-3des esp-sha-hmac
      ,lifedur= 2147483647s and 0kb
      spi= 0x71DAE9C6(1910172102), conn_id= 2000, keysize= 0, flags= 0x4
      , :(IPSEC(initialize_sas :03:36:28
      ,key eng. msg.) OUTBOUND local= 209.165.202.129, remote= 209.165.200.225)
      ,(local_proxy= 209.165.202.129/0.0.0.0/0/0 (type=1
      ,(remote_proxy= 209.165.200.225/0.0.0.0/0/0 (type=1
      ,protocol= ESP, transform= esp-3des esp-sha-hmac
      ,lifedur= 2147483647s and 0kb
      spi= 0x605A75D(101033821), conn_id= 2001, keysize= 0, flags= 0xC
      ,IPSEC(create_sa): sa created :03:36:28
      ,sa) sa_dest= 209.165.202.129, sa_prot= 50)
      , (sa_spi= 0x71DAE9C6(1910172102
      sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2000
      ,IPSEC(create_sa): sa created :03:36:28
      ,sa) sa_dest= 209.165.200.225, sa_prot= 50)
      , (sa_spi= 0x605A75D(101033821
      sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2001
      (ISAKMP: received ke message (4/1 :03:36:28
      ISAKMP: Locking CONFIG struct 0x631B752C for :03:36:28
      crypto_ikmp_config_handle_kei_mess, count 2
      ISAKMP (0:1): received packet from 209.165.200.225 (R) QM_IDLE :03:36:32
      CryptoEngine0: generate hmac context for conn id 1 :03:36:32
      ISAKMP (0:1): processing HASH payload. message ID = 852253052 :03:36:32
      ISAKMP (0:1): processing SA payload. message ID = 852253052 :03:36:32
      ISAKMP (0:1): Checking IPsec proposal 1 :03:36:32
      ISAKMP: transform 1, ESP_3DES :03:36:32
      :ISAKMP: attributes in transform :03:36:32
      ISAKMP: SA life type in seconds :03:36:32
      ISAKMP: SA life duration (VPI) of 0x7F 0xFF 0xFF 0xFF :03:36:32
      ISAKMP: encaps is 1 :03:36:32
      ISAKMP: authenticator is HMAC-SHA :03:36:32
      validate proposal 0 :03:36:32
      .ISAKMP (0:1): atts are acceptable :03:36:32
      ,IPSEC(validate_proposal_request): proposal part #1 :03:36:32
      ,key eng. msg.) INBOUND local= 209.165.202.129, remote= 209.165.200.225)
      ,(local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4
      ,(remote_proxy= 10.48.66.0/255.255.254.0/0/0 (type=4
      , protocol= ESP, transform= esp-3des esp-sha-hmac
      ,lifedur= 0s and 0kb
      spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4
      validate proposal request 0 :03:36:32
      ISAKMP (0:1): processing NONCE payload. message ID = 852253052 :03:36:32

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ISAKMP (0:1): processing ID payload. message ID = 852253052 :03:36:32
ISAKMP (0:1): processing ID payload. message ID = 852253052 :03:36:32
ISAKMP (0:1): asking for 1 spis from ipsec :03:36:32
ISAKMP (0:1): Node 852253052, Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH :03:36:32
Old State = IKE_QM_READY New State = IKE_QM_SPI_STARVE
...IPSEC(key_engine): got a queue event :03:36:32
IPSEC(spi_response): getting spi 3997625134 for SA :03:36:32
from 209.165.202.129 to 209.165.200.225 for prot 3
(ISAKMP: received ke message (2/1 :03:36:32
CryptoEngine0: generate hmac context for conn id 1 :03:36:32
ISAKMP (0:1): sending packet to 209.165.200.225 (R) QM_IDLE :03:36:32
ISAKMP (0:1): Node 852253052, Input = IKE_MSG_FROM_IPSEC, IKE_SPI_REPLY :03:36:32
Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2
ISAKMP (0:1): received packet from 209.165.200.225 (R) QM_IDLE :03:36:32
CryptoEngine0: generate hmac context for conn id 1 :03:36:32
ipsec allocate flow 0 :03:36:32
ipsec allocate flow 0 :03:36:32
ISAKMP (0:1): Creating IPSec SAs :03:36:32
inbound SA from 209.165.200.225 to 209.165.202.129 :03:36:32
(proxy 10.48.66.0 to 0.0.0.0)
has spi 0xEE46EB2E and conn_id 2002 and flags 4 :03:36:32
lifetime of 2147483647 seconds :03:36:32
outbound SA from 209.165.202.129 to 209.165.200.225 :03:36:32
(proxy 0.0.0.0 to 10.48.66.0)
has spi 674305339 and conn_id 2003 and flags C :03:36:32
lifetime of 2147483647 seconds :03:36:32
"()ISAKMP (0:1): deleting node 852253052 error FALSE reason "quick mode done (await :03:36:32
ISAKMP (0:1): Node 852253052, Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH :03:36:32
Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE
...IPSEC(key_engine): got a queue event :03:36:32
IPSec now initializes the SAs as these are !--- stored in the SA Database. 03:36:32: ---!
IPSEC(initialize_sas): , (key eng. msg.) INBOUND local= 209.165.202.129, remote=
209.165.200.225, !--- This SA is for the actual data traffic between the !--- networks behind
,(the VPN Client and the Cisco IOS router. local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4
,(remote_proxy= 10.48.66.0/255.255.254.0/0/0 (type=4
, protocol= ESP, transform= esp-3des esp-sha-hmac
,lifedur= 2147483647s and 0kb
spi= 0xEE46EB2E(3997625134), conn_id= 2002, keysize= 0, flags= 0x4
, :(IPSEC(initialize_sas :03:36:32
,key eng. msg.) OUTBOUND local= 209.165.202.129, remote= 209.165.200.225)
,(local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4
,(remote_proxy= 10.48.66.0/255.255.254.0/0/0 (type=4
, protocol= ESP, transform= esp-3des esp-sha-hmac
,lifedur= 2147483647s and 0kb
spi= 0x2831153B(674305339), conn_id= 2003, keysize= 0, flags= 0xC
, IPSEC(create_sa): sa created :03:36:32
,sa) sa_dest= 209.165.202.129, sa_prot= 50)
,(sa_spi= 0xEE46EB2E(3997625134
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2002
,IPSEC(create_sa): sa created :03:36:32
,sa) sa_dest= 209.165.200.225, sa_prot= 50)
,(sa_spi= 0x2831153B(674305339
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2003
(ISAKMP: received ke message (4/1 :03:36:32
ISAKMP: Locking CONFIG struct 0x631B752C for :03:36:32
crypto_ikmp_config_handle_kei_mess, count 3

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تصحيح أخطاء عمل الأجهزة 3002 VPN

من واجهة المستخدم الرسومية (GUI) الخاصة بعميل شبكة VPN، حدد تكوين > نظام > أحداث > فئات وتمكين IKE و IPSECDBG، و iKEDBG، و IPsec في المستوى 13 إلى syslog. تذكر أن تقوم بتعطيل تصحيح الأخطاء بعد اكتمال الاختبار.

SEV=7 IPSECDBG/14 RPT=3 11:02:30.100 06/03/2002 297
The VPN Client attempts to connect to the headend. ---!
!---- In this case, it is Cisco IOS. Sending KEY_ACQUIRE
 to IKE for src 209.165.200.225, dst 209.165.202.129 298
 06/03/2002 11:02:30.100 SEV=8 IKEDBG/0 RPT=108 pitcher:
 received a key acquire message! 299 06/03/2002
 11:02:30.100 SEV=4 IKE/41 RPT=135 209.165.202.129 IKE
 Initiator: New Phase 1, Intf 2, IKE Peer 209.165.202.129
 local Proxy Address 209.165.200.225, remote Proxy
 Address 209.165.202.129, SA (ESP-3DES-MD5) 302
 06/03/2002 11:02:30.100 SEV=9 IKEDBG/0 RPT=109
 209.165.202.129 constructing ISA_SA for isakmp 303
 06/03/2002 11:02:30.230 SEV=9 IKEDBG/0 RPT=110
 209.165.202.129 constructing ke payload 304 06/03/2002
 11:02:30.230 SEV=9 IKEDBG/1 RPT=30 209.165.202.129
 constructing nonce payload 305 06/03/2002 11:02:30.230
 SEV=9 IKEDBG/1 RPT=31 209.165.202.129 constructing ID
 306 06/03/2002 11:02:30.230 SEV=9 IKEDBG/46 RPT=4
 209.165.202.129 constructing xauth V6 VID payload 307
 06/03/2002 11:02:30.230 SEV=9 IKEDBG/46 RPT=5
 209.165.202.129 constructing VID payload 308 06/03/2002
 11:02:30.230 SEV=9 IKEDBG/48 RPT=2 209.165.202.129 Send
 Cisco Unity client VID 309 06/03/2002 11:02:30.230 SEV=8
 IKEDBG/0 RPT=111 209.165.202.129 SENDING Message
 (msgid=0) with payloads : HDR + SA (1) + KE (4) + NONCE
 (10) + ID (5) + VENDOR (13) + VENDOR (13) + NONE (0)
... total length : 541 312 06/03/2002 11:02:30.520 SEV=8
 IKEDBG/0 RPT=112 209.165.202.129 RECEIVED Message
 (msgid=0) with payloads : HDR + SA (1) + VENDOR (13) +
 VENDOR (13) + VENDOR (13) + VENDOR (13) + KE (4) + ID
 (5) + NONCE (10) + HASH (8) + NONE (0) ... total length
: 348 315 06/03/2002 11:02:30.530 SEV=8 IKEDBG/0 RPT=113
 209.165.202.129 RECEIVED Message (msgid=0) with payloads
: HDR + SA (1) + VENDOR (13) + VENDOR (13) + VENDOR (13)
+ VENDOR (13) + KE (4) + ID (5) + NONCE (10) + HASH (8)
+ NONE (0) ... total length : 348 318 06/03/2002
 11:02:30.530 SEV=9 IKEDBG/0 RPT=114 209.165.202.129
processing SA payload 319 06/03/2002 11:02:30.530 SEV=7
 IKEDBG/0 RPT=115 209.165.202.129 Oakley proposal is
acceptable 320 06/03/2002 11:02:30.530 SEV=9 IKEDBG/47
 RPT=5 209.165.202.129 processing VID payload 321
 06/03/2002 11:02:30.530 SEV=9 IKEDBG/49 RPT=4
 209.165.202.129 Received Cisco Unity client VID 322
 06/03/2002 11:02:30.530 SEV=9 IKEDBG/47 RPT=6
 209.165.202.129 processing VID payload 323 06/03/2002
 11:02:30.530 SEV=9 IKEDBG/49 RPT=5 209.165.202.129
Received DPD VID 324 06/03/2002 11:02:30.530 SEV=9
IKEDBG/47 RPT=7 209.165.202.129 processing VID payload
 325 06/03/2002 11:02:30.530 SEV=9 IKEDBG/38 RPT=2
 209.165.202.129 Processing IOS/PIX Vendor ID payload
(version: 1.0.0, capabilities: 0000007f) 326 06/03/2002
 11:02:30.530 SEV=9 IKEDBG/47 RPT=8 209.165.202.129
processing VID payload 327 06/03/2002 11:02:30.530 SEV=9
IKEDBG/49 RPT=6 209.165.202.129 !---- *The VPN Client*
understands that it needs !---- to go through Extended
authentication to !--- bring the tunnel up. Received
xauth V6 VID 328 06/03/2002 11:02:30.530 SEV=9 IKEDBG/0
 RPT=116 209.165.202.129 processing ke payload 329
 06/03/2002 11:02:30.530 SEV=9 IKEDBG/0 RPT=117
 209.165.202.129 processing ISA_KE 330 06/03/2002
 11:02:30.530 SEV=9 IKEDBG/1 RPT=32 209.165.202.129

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Processing ID 331 06/03/2002 11:02:30.530 SEV=9 IKEDBG/1
RPT=33 209.165.202.129 processing nonce payload 332
06/03/2002 11:02:30.660 SEV=9 IKEDBG/0 RPT=118
209.165.202.129 Generating keys for Initiator... 333
06/03/2002 11:02:30.670 SEV=9 IKEDBG/0 RPT=119
209.165.202.129 Group [209.165.202.129] processing hash
334 06/03/2002 11:02:30.670 SEV=9 IKEDBG/0 RPT=120
209.165.202.129 Group [209.165.202.129] computing hash
335 06/03/2002 11:02:30.680 SEV=9 IKEDBG/0 RPT=121 Group
[209.165.202.129] construct hash payload 336 06/03/2002
11:02:30.680 SEV=9 IKEDBG/0 RPT=122 209.165.202.129
Group [209.165.202.129] computing hash 337 06/03/2002
11:02:30.680 SEV=9 IKEDBG/46 RPT=6 209.165.202.129 Group
[209.165.202.129] constructing dpd vid payload 338
06/03/2002 11:02:30.680 SEV=8 IKEDBG/0 RPT=123
209.165.202.129 SENDING Message (msgid=0) with payloads
: HDR + HASH (8) + NOTIFY (11) + VENDOR (13) + NONE (0)
... total length : 100 340 06/03/2002 11:02:30.690 SEV=8
IKEDBG/0 RPT=124 209.165.202.129 RECEIVED Message
(msgid=71c8c9fd) with payloads : HDR + HASH (8) + NOTIFY
(11) + NONE (0) ... total length : 92 342 06/03/2002
11:02:30.690 SEV=9 IKEDBG/0 RPT=125 209.165.202.129
Group [209.165.202.129] processing hash 343 06/03/2002
11:02:30.690 SEV=9 IKEDBG/0 RPT=126 209.165.202.129
Group [209.165.202.129] Processing Notify payload 344
06/03/2002 11:02:30.690 SEV=5 IKE/73 RPT=19
209.165.202.129 Group [209.165.202.129] !--- As IOS has
a default IKE time of 1 day (86400) seconds !--- and
forces the VPN Client to accept this value. !--- This is
because Cisco IOS responds and the VPN Client initiates.
Responder forcing change of IKE rekeying duration from
2147483647 to 86400 seconds 347 06/03/2002 11:02:30.690
SEV=6 IKE/0 RPT=2 AM AM:843f96f6 received unexpected
event EV_RESET_LIFETIME in state AM_RSND_LST_ MSG 349
06/03/2002 11:02:30.700 SEV=8 IKEDBG/0 RPT=127
209.165.202.129 RECEIVED Message (msgid=ecb5af46) with
payloads : HDR + HASH (8) + ATTR (14) + NONE (0) ...
total length : 86 351 06/03/2002 11:02:30.700 SEV=9
IKEDBG/1 RPT=34 process_attr(): Enter! 352 06/03/2002
11:02:30.700 SEV=9 IKEDBG/1 RPT=35 Processing cfg
Request attributes 353 06/03/2002 11:02:30.700 SEV=9
IKEDBG/1 RPT=36 Received Xauth Type in request! 354
06/03/2002 11:02:30.700 SEV=9 IKEDBG/1 RPT=37 Received
Xauth Message! 355 06/03/2002 11:02:30.700 SEV=9
IKEDBG/1 RPT=38 Received Xauth Username request! 356
06/03/2002 11:02:30.700 SEV=9 IKEDBG/1 RPT=39 Received
Xauth Password request! 357 06/03/2002 11:02:30.700
SEV=9 IKEDBG/0 RPT=128 209.165.202.129 Group
[209.165.202.129] constructing blank hash 358 06/03/2002
11:02:30.700 SEV=9 IKEDBG/0 RPT=129 209.165.202.129
Group [209.165.202.129] constructing qm hash 359
06/03/2002 11:02:30.700 SEV=8 IKEDBG/0 RPT=130
209.165.202.129 SENDING Message (msgid=ecb5af46) with
payloads : HDR + HASH (8) + ATTR (14) + NONE (0) ...
total length : 77 361 06/03/2002 11:02:30.710 SEV=8
IKEDBG/0 RPT=131 209.165.202.129 RECEIVED Message
(msgid=ad808e58) with payloads : HDR + HASH (8) + ATTR
(14) + NONE (0) ... total length : 64 363 06/03/2002
11:02:30.710 SEV=9 IKEDBG/1 RPT=40 process_attr():
Enter! 364 06/03/2002 11:02:30.710 SEV=9 IKEDBG/1 RPT=41
Processing cfg Request attributes 365 06/03/2002
11:02:30.710 SEV=9 IKEDBG/1 RPT=42 Received Xauth Status
Set! 366 06/03/2002 11:02:30.710 SEV=9 IKEDBG/0 RPT=132
209.165.202.129 Group [209.165.202.129] constructing

```

```

blank hash 367 06/03/2002 11:02:30.710 SEV=9 IKEDBG/0
RPT=133 209.165.202.129 Group [209.165.202.129]
constructing qm hash 368 06/03/2002 11:02:30.710 SEV=8
IKEDBG/0 RPT=134 209.165.202.129 SENDING Message
(msgid=ad808e58) with payloads : HDR + HASH (8) + ATTR
(14) + NONE (0) ... total length : 60 370 06/03/2002
11:02:30.720 SEV=9 IKEDBG/0 RPT=135 209.165.202.129
Group [209.165.202.129] constructing blank hash 371
06/03/2002 11:02:30.720 SEV=9 IKEDBG/0 RPT=136
209.165.202.129 Group [209.165.202.129] constructing qm
hash 372 06/03/2002 11:02:30.720 SEV=8 IKEDBG/0 RPT=137
209.165.202.129 SENDING Message (msgid=30ce63a8) with
payloads : HDR + HASH (8) + ATTR (14) + NONE (0) ...
total length : 231 374 06/03/2002 11:02:30.740 SEV=8
IKEDBG/0 RPT=138 209.165.202.129 RECEIVED Message
(msgid=30ce63a8) with payloads : HDR + HASH (8) + ATTR
(14) + NONE (0) ... total length : 313 376 06/03/2002
11:02:30.740 SEV=9 IKEDBG/1 RPT=43 process_attr():
Enter! 377 06/03/2002 11:02:30.740 SEV=9 IKEDBG/1 RPT=44
Processing MODE_CFG Reply attributes !--- The VPN Client
processes the mode !--- configuration reply attributes
sent by Cisco IOS. 378 06/03/2002 11:02:30.740 SEV=6
IKE/130 RPT=2 209.165.202.129 Group [209.165.202.129]
Received unsupported transaction mode attribute: 7 379
06/03/2002 11:02:30.740 SEV=5 IKE/115 RPT=7
209.165.202.129 Group [209.165.202.129] Client rejected
NAT enabled IPSec request, falling back to standard
IPSec 381 06/03/2002 11:02:30.740 SEV=3 AUTH/24 RPT=7
Tunnel to headend device 209.165.202.129 connected 382
06/03/2002 11:02:30.740 SEV=9 IKEDBG/0 RPT=139
209.165.202.129 Group [209.165.202.129] Oakley begin
quick mode 383 06/03/2002 11:02:30.740 SEV=4 IKE/119
RPT=7 209.165.202.129 Group [209.165.202.129] !--- Phase
1 is complete. 384 06/03/2002 11:02:30.740 SEV=6 IKE/121
RPT=2 209.165.202.129 Keep-alive type for this
connection: DPD 385 06/03/2002 11:02:30.740 SEV=7
IKEDBG/0 RPT=140 209.165.202.129 Group [209.165.202.129]
Starting phase 1 rekey timer: 73440000 (ms) 386
06/03/2002 11:02:30.740 SEV=9 IPSECDDBG/6 RPT=15 IPSEC
key message parse - msgtype 6, len 200, vers 1, pid
00000000, seq 13, err 0, type 2, mode 0, state 32, label
0, pad 0, spi 00000000, encrKeyLen 0, hashKey Len 0,
ivlen 0, alg 0, hmacAlg 0, lifetype 0, lifetime1 662488,
lifetime2 0, dsi d 300 390 06/03/2002 11:02:30.740 SEV=9
IPSECDDBG/1 RPT=47 Processing KEY_GETSPI msg! 391
06/03/2002 11:02:30.740 SEV=7 IPSECDDBG/13 RPT=3 Reserved
SPI 1608220759 392 06/03/2002 11:02:30.740 SEV=8
IKEDBG/6 RPT=3 IKE got SPI from key engine: SPI =
0x5fdb8057 393 06/03/2002 11:02:30.750 SEV=9 IKEDBG/0
RPT=141 209.165.202.129 Group [209.165.202.129] oakley
constucting quick mode 394 06/03/2002 11:02:30.750 SEV=9
IKEDBG/0 RPT=142 209.165.202.129 Group [209.165.202.129]
constructing blank hash 395 06/03/2002 11:02:30.750
SEV=9 IKEDBG/0 RPT=143 209.165.202.129 Group
[209.165.202.129] constructing ISA_SA for ipsec 396
06/03/2002 11:02:30.750 SEV=9 IKEDBG/1 RPT=45
209.165.202.129 Group [209.165.202.129] constructing
ipsec nonce payload 397 06/03/2002 11:02:30.750 SEV=9
IKEDBG/1 RPT=46 209.165.202.129 Group [209.165.202.129]
constructing proxy ID 398 06/03/2002 11:02:30.750 SEV=7
IKEDBG/0 RPT=144 209.165.202.129 Group [209.165.202.129]
Transmitting Proxy Id: !--- This is the SA for
management between !--- the VPN Client and Cisco IOS.
Local host: 209.165.200.225 Protocol 0 Port 0

```

Remote host: 209.165.202.129 Protocol 0 Port 0

SEV=9 IKEDBG/0 RPT=145 11:02:30.750 06/03/2002 402
209.165.202.129
[Group [209.165.202.129
constructing qm hash

SEV=8 IKEDBG/0 RPT=146 11:02:30.750 06/03/2002 403
209.165.202.129
: SENDING Message (msgid=e429a70e) with payloads
HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) +
NONE (0) ... total leng
th : 292

SEV=8 IKEDBG/0 RPT=147 11:02:31.010 06/03/2002 406
209.165.202.129
: RECEIVED Message (msgid=e429a70e) with payloads
HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) +
(NOTIFY (11) + NONE (0
total length : 192 ...

SEV=9 IKEDBG/0 RPT=148 11:02:31.010 06/03/2002 409
209.165.202.129
[Group [209.165.202.129
processing hash

SEV=9 IKEDBG/0 RPT=149 11:02:31.010 06/03/2002 410
209.165.202.129
[Group [209.165.202.129
processing SA payload

SEV=9 IKEDBG/1 RPT=47 11:02:31.020 06/03/2002 411
209.165.202.129
[Group [209.165.202.129
processing nonce payload

SEV=9 IKEDBG/1 RPT=48 11:02:31.020 06/03/2002 412
209.165.202.129
[Group [209.165.202.129
Processing ID

SEV=9 IKEDBG/1 RPT=49 11:02:31.020 06/03/2002 413
209.165.202.129
[Group [209.165.202.129
Processing ID

SEV=9 IKEDBG/0 RPT=150 11:02:31.020 06/03/2002 414
209.165.202.129
[Group [209.165.202.129
Processing Notify payload

SEV=5 IKE/73 RPT=20 11:02:31.020 06/03/2002 415
209.165.202.129
[Group [209.165.202.129

Responder forcing change of IPsec rekeying duration from
2147483647 to 3600 seco
nds

SEV=9 IKEDBG/0 RPT=151 11:02:31.020 06/03/2002 418
209.165.202.129
[Group [209.165.202.129
loading all IPSEC SAs

SEV=9 IKEDBG/1 RPT=50 11:02:31.020 06/03/2002 419
209.165.202.129
[Group [209.165.202.129
!Generating Quick Mode Key

SEV=9 IKEDBG/1 RPT=51 11:02:31.020 06/03/2002 420
209.165.202.129
[Group [209.165.202.129
!Generating Quick Mode Key

SEV=7 IKEDBG/0 RPT=152 11:02:31.020 06/03/2002 421
209.165.202.129
[Group [209.165.202.129
:Loading host
Dst: 209.165.202.129

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Src: 209.165.200.225
SEV=4 IKE/49 RPT=13 11:02:31.020 06/03/2002 423
                                209.165.202.129
                                [Group [209.165.202.129
( Security negotiation complete for peer (209.165.202.129
Initiator, Inbound SPI = 0x5fdb8057, Outbound SPI =
                                0xa088f2dc
SEV=9 IKEDBG/0 RPT=153 11:02:31.020 06/03/2002 426
                                209.165.202.129
                                [Group [209.165.202.129
oakley constructing final quick mode
SEV=8 IKEDBG/0 RPT=154 11:02:31.030 06/03/2002 427
                                209.165.202.129
: SENDING Message (msgid=e429a70e) with payloads
    HDR + HASH (8) + NONE (0) ... total length : 76
SEV=9 IPSECDBG/6 RPT=16 11:02:31.030 06/03/2002 429
IPSEC key message parse - msgtype 1, len 612, vers 1,
                                pid 00000000, seq 0, err 0
                                type 2, mode 1, state 64, label 0, pad 0, spi ,
                                a088f2dc, encrKeyLen 24, hashKey
Len 20, ivlen 8, alg 2, hmacAlg 4, lifetype 0, lifetime1
                                662488, lifetime2 0, ds
                                Id -378167296
SEV=9 IPSECDBG/1 RPT=48 11:02:31.030 06/03/2002 433
                                !Processing KEY_ADD msg
SEV=9 IPSECDBG/1 RPT=49 11:02:31.030 06/03/2002 434
                                key_msghdr2secassoc(): Enter
SEV=7 IPSECDBG/1 RPT=50 11:02:31.030 06/03/2002 435
                                No USER filter configured
SEV=9 IPSECDBG/1 RPT=51 11:02:31.030 06/03/2002 436
                                KeyProcessAdd: Enter
SEV=8 IPSECDBG/1 RPT=52 11:02:31.030 06/03/2002 437
                                KeyProcessAdd: Adding outbound SA
SEV=8 IPSECDBG/1 RPT=53 11:02:31.030 06/03/2002 438
KeyProcessAdd: src 209.165.200.225 mask 0.0.0.0, dst
                                .209.165.202.129 mask 0.0.0
                                0
SEV=8 IPSECDBG/1 RPT=54 11:02:31.030 06/03/2002 440
                                KeyProcessAdd: FilterIpsecAddIkeSa success
SEV=9 IPSECDBG/6 RPT=17 11:02:31.030 06/03/2002 441
IPSEC key message parse - msgtype 3, len 332, vers 1,
                                pid 00000000, seq 0, err 0
                                type 2, mode 1, state 32, label 0, pad 0, spi ,
                                5fdb8057, encrKeyLen 24, hashKey
Len 20, ivlen 8, alg 2, hmacAlg 4, lifetype 0, lifetime1
                                662488, lifetime2 0, ds
                                Id -378167296
SEV=9 IPSECDBG/1 RPT=55 11:02:31.030 06/03/2002 445
                                !Processing KEY_UPDATE msg
SEV=9 IPSECDBG/1 RPT=56 11:02:31.030 06/03/2002 446
                                Update inbound SA addresses
SEV=9 IPSECDBG/1 RPT=57 11:02:31.030 06/03/2002 447
                                key_msghdr2secassoc(): Enter
SEV=7 IPSECDBG/1 RPT=58 11:02:31.030 06/03/2002 448
                                No USER filter configured
SEV=9 IPSECDBG/1 RPT=59 11:02:31.030 06/03/2002 449
                                KeyProcessUpdate: Enter
SEV=8 IPSECDBG/1 RPT=60 11:02:31.030 06/03/2002 450
                                KeyProcessUpdate: success
SEV=8 IKEDBG/7 RPT=3 11:02:31.030 06/03/2002 451
                                IKE got a KEY_ADD msg for SA: SPI = 0xa088f2dc
SEV=8 IKEDBG/0 RPT=155 11:02:31.030 06/03/2002 452
                                pitcher: rcv KEY_UPDATE, spi 0x5fdb8057
SEV=4 IKE/120 RPT=13 11:02:31.040 06/03/2002 453

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209.165.202.129
[Group [209.165.202.129]

(PHASE 2 COMPLETED (msgid=e429a70e)

This line indicates that SA establishment !--- for ---! management between the VPN Client and Cisco IOS is complete. 454 06/03/2002 11:02:35.040 SEV=7 IPSECDBG/10 RPT=4 IPSEC ipsec_output() can call key_acquire()
because 4 seconds have elapsed since last IKE negotiation began (src 0x0a3042b9, dst 0x00a66e24) 456 06/03/2002 11:02:35.040 SEV=7 IPSECDBG/14 RPT=4 Sending KEY_ACQUIRE to IKE for src 10.48.66.185, dst 0.0.0.0 457 06/03/2002 11:02:35.040 SEV=8 IKEDBG/0 RPT=156 pitcher:
received a key acquire message! 458 06/03/2002 11:02:35.040 SEV=4 IKE/41 RPT=136 IKE Initiator: New Phase 2, Intf 2, IKE Peer 209.165.202.129 local Proxy Address 10.48.66.0, remote Proxy Address 0.0.0.0, SA (ESP-3DES-MD5) 460 06/03/2002 11:02:35.040 SEV=9 IKEDBG/0 RPT=157 209.165.202.129 Group [209.165.202.129] Oakley begin quick mode 461 06/03/2002 11:02:35.040 SEV=9 IPSECDBG/6 RPT=18 IPSEC key message parse - msgtype 6, len 200, vers 1, pid 00000000, seq 14, err 0, type 2, mode 0, state 32, label 0, pad 0, spi 00000000, encrKeyLen 0, hashKey Len 0, ivlen 0, alg 0, hmacAlg 0, lifetype 0, lifetime1 662488, lifetime2 0, dsI d 300 465 06/03/2002 11:02:35.040 SEV=9 IPSECDBG/1 RPT=61 Processing KEY_GETSPI msg! 466 06/03/2002 11:02:35.040 SEV=7 IPSECDBG/13 RPT=4 Reserved SPI 1819592269 467 06/03/2002 11:02:35.040 SEV=8 IKEDBG/6 RPT=4 IKE got SPI from key engine: SPI = 0x6c74c64d 468 06/03/2002 11:02:35.040 SEV=9 IKEDBG/0 RPT=158 209.165.202.129 Group [209.165.202.129] oakley constucting quick mode 469 06/03/2002 11:02:35.040 SEV=9 IKEDBG/0 RPT=159 209.165.202.129 Group [209.165.202.129] constructing blank hash 470 06/03/2002 11:02:35.040 SEV=9 IKEDBG/0 RPT=160 209.165.202.129 Group [209.165.202.129] constructing ISA_SA for ipsec 471 06/03/2002 11:02:35.040 SEV=9 IKEDBG/1 RPT=52 209.165.202.129 Group [209.165.202.129] constructing ipsec nonce payload 472 06/03/2002 11:02:35.040 SEV=9 IKEDBG/1 RPT=53 209.165.202.129 Group [209.165.202.129] constructing proxy ID 473 06/03/2002 11:02:35.040 SEV=7 IKEDBG/0 RPT=161 209.165.202.129 Group [209.165.202.129] Transmitting Proxy Id: **Local subnet: 10.48.66.0 mask 255.255.254.0 Protocol 0 Port 0** **Remote subnet: 0.0.0.0 Mask 0.0.0.0 Protocol 0 Port 0**
0
This line indicates the SA for the traffic between ---! --- the networks behind the VPN Client and Cisco IOS. 477 06/03/2002 11:02:35.040 SEV=9 IKEDBG/0 RPT=162 209.165.202.129 Group [209.165.202.129] constructing qm hash 478 06/03/2002 11:02:35.040 SEV=8 IKEDBG/0 RPT=163 209.165.202.129 SENDING Message (msgid=a809c6b4) with payloads : HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) + NONE (0) ... total length : 300 481 06/03/2002 11:02:35.310 SEV=8 IKEDBG/0 RPT=164 209.165.202.129 RECEIVED Message (msgid=a809c6b4) with payloads : HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) + NOTIFY (11) + NONE (0) ... total length : 200 484 06/03/2002 11:02:35.310 SEV=9 IKEDBG/0 RPT=165 209.165.202.129 Group [209.165.202.129] processing hash 485 06/03/2002 11:02:35.310 SEV=9 IKEDBG/0 RPT=166 209.165.202.129 Group [209.165.202.129] processing SA payload 486 06/03/2002 11:02:35.310 SEV=9 IKEDBG/1 RPT=54 209.165.202.129 Group [209.165.202.129]

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processing nonce payload 487 06/03/2002 11:02:35.310
    SEV=9 IKEDBG/1 RPT=55 209.165.202.129 Group
    [209.165.202.129] Processing ID 488 06/03/2002
11:02:35.310 SEV=9 IKEDBG/1 RPT=56 209.165.202.129 Group
    [209.165.202.129] Processing ID 489 06/03/2002
    11:02:35.310 SEV=9 IKEDBG/0 RPT=167 209.165.202.129
Group [209.165.202.129] Processing Notify payload 490
    06/03/2002 11:02:35.310 SEV=5 IKE/73 RPT=21
    209.165.202.129 Group [209.165.202.129] Responder
        forcing change of IPSec rekeying duration from
    2147483647 to 3600 seco nds 493 06/03/2002 11:02:35.310
    SEV=9 IKEDBG/0 RPT=168 209.165.202.129 Group
    [209.165.202.129] loading all IPSEC SAs 494 06/03/2002
11:02:35.310 SEV=9 IKEDBG/1 RPT=57 209.165.202.129 Group
    [209.165.202.129] Generating Quick Mode Key! 495
    06/03/2002 11:02:35.320 SEV=9 IKEDBG/1 RPT=58
209.165.202.129 Group [209.165.202.129] Generating Quick
    Mode Key! 496 06/03/2002 11:02:35.320 SEV=7 IKEDBG/0
RPT=169 209.165.202.129 Group [209.165.202.129] Loading
subnet: Dst: 0.0.0.0 mask: 0.0.0.0 Src: 10.48.66.0 mask:
    255.255.254.0 499 06/03/2002 11:02:35.320 SEV=4 IKE/49
RPT=14 209.165.202.129 Group [209.165.202.129] Security
    negotiation complete for peer (209.165.202.129)
        Initiator, Inbound SPI = 0x6c74c64d, Outbound SPI =
    0x8e34d356 502 06/03/2002 11:02:35.320 SEV=9 IKEDBG/0
RPT=170 209.165.202.129 Group [209.165.202.129] oakley
    constructing final quick mode 503 06/03/2002
    11:02:35.320 SEV=8 IKEDBG/0 RPT=171 209.165.202.129
SENDING Message (msgid=a809c6b4) with payloads : HDR +
HASH (8) + NONE (0) ... total length : 76 505 06/03/2002
    11:02:35.320 SEV=9 IPSECDBG/6 RPT=19 IPSEC key message
parse - msgtype 1, len 612, vers 1, pid 00000000, seq 0,
    err 0 , type 2, mode 1, state 64, label 0, pad 0, spi
8e34d356, encrKeyLen 24, hashKey Len 20, ivlen 8, alg 2,
hmacAlg 4, lifetype 0, lifetime1 662488, lifetime2 0, ds
    Id -378167296 509 06/03/2002 11:02:35.330 SEV=9
IPSECDBG/1 RPT=62 Processing KEY_ADD msg! 510 06/03/2002
    11:02:35.330 SEV=9 IPSECDBG/1 RPT=63
key_msghdr2secassoc(): Enter 511 06/03/2002 11:02:35.330
    SEV=7 IPSECDBG/1 RPT=64 No USER filter configured 512
    06/03/2002 11:02:35.330 SEV=9 IPSECDBG/1 RPT=65
KeyProcessAdd: Enter 513 06/03/2002 11:02:35.330 SEV=8
IPSECDBG/1 RPT=66 KeyProcessAdd: Adding outbound SA 514
    06/03/2002 11:02:35.330 SEV=8 IPSECDBG/1 RPT=67
KeyProcessAdd: src 10.48.66.0 mask 0.0.1.255, dst
    0.0.0.0 mask 255.255.255.255 515 06/03/2002 11:02:35.330
    SEV=8 IPSECDBG/1 RPT=68 KeyProcessAdd:
FilterIpsecAddIkeSa success 516 06/03/2002 11:02:35.330
    SEV=9 IPSECDBG/6 RPT=20 IPSEC key message parse -
msgtype 3, len 332, vers 1, pid 00000000, seq 0, err 0 ,
    type 2, mode 1, state 32, label 0, pad 0, spi 6c74c64d,
encrKeyLen 24, hashKey Len 20, ivlen 8, alg 2, hmacAlg
    4, lifetype 0, lifetime1 662488, lifetime2 0, ds Id -
378167296 520 06/03/2002 11:02:35.330 SEV=9 IPSECDBG/1
    RPT=69 Processing KEY_UPDATE msg! 521 06/03/2002
    11:02:35.330 SEV=9 IPSECDBG/1 RPT=70 Update inbound SA
addresses 522 06/03/2002 11:02:35.330 SEV=9 IPSECDBG/1
    RPT=71 key_msghdr2secassoc(): Enter 523 06/03/2002
    11:02:35.330 SEV=7 IPSECDBG/1 RPT=72 No USER filter
configured 524 06/03/2002 11:02:35.330 SEV=9 IPSECDBG/1
    RPT=73 KeyProcessUpdate: Enter 525 06/03/2002
    11:02:35.330 SEV=8 IPSECDBG/1 RPT=74 KeyProcessUpdate:
success 526 06/03/2002 11:02:35.330 SEV=8 IKEDBG/7 RPT=4
IKE got a KEY_ADD msg for SA: SPI = 0x8e34d356 527
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06/03/2002 11:02:35.330 SEV=8 IKEDBG/0 RPT=172 pitcher:  
    rcv KEY_UPDATE, spi 0x6c74c64d 528 06/03/2002  
11:02:35.330 SEV=4 IKE/120 RPT=14 209.165.202.129 Group  
[209.165.202.129] PHASE 2 COMPLETED (msgid=a809c6b4) !--  
- This line indicates that SA establishment !--- for  
networks between the VPN Client and Cisco IOS is  
.complete
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معلومات ذات صلة

- دعم مركز Cisco VPN 3000
- دعم عمل أجهزة Cisco VPN 3002
- دعم مفاظة IKE/بروتوكولات IPSec
- الدعم التقني والمستدات - Cisco Systems

هـ لـ وـ لـ جـ رـ تـ لـ اـ هـ ذـ هـ

ةـ يـ لـ آـ لـ اـ تـ اـ يـ نـ قـ تـ لـ اـ نـ مـ مـ جـ مـ وـ عـ مـ اـ دـ خـ تـ سـ اـ بـ دـ نـ تـ سـ مـ لـ اـ اـ ذـ هـ تـ مـ جـ رـ تـ
لـ اـ عـ لـ اـ ءـ اـ حـ نـ اـ عـ يـ مـ جـ يـ فـ نـ يـ مـ دـ خـ تـ سـ مـ لـ لـ مـ عـ دـ ئـ وـ تـ حـ مـ يـ دـ قـ تـ لـ ةـ يـ رـ شـ بـ لـ اـ وـ
اـ مـ كـ ةـ قـ يـ قـ دـ نـ وـ كـ تـ نـ لـ ةـ يـ لـ آـ ةـ مـ جـ رـ تـ لـ ضـ فـ اـ نـ اـ ةـ ظـ حـ اـ لـ مـ ئـ جـ رـ يـ .ـ صـ اـ خـ لـ اـ مـ هـ تـ غـ لـ بـ
يـ لـ خـ تـ .ـ فـ رـ تـ حـ مـ مـ جـ رـ تـ مـ اـ هـ دـ قـ يـ يـ تـ لـ اـ ةـ يـ فـ اـ رـ تـ حـ اـ لـ اـ ةـ مـ جـ رـ تـ لـ اـ عـ مـ لـ اـ حـ لـ اـ وـ
ىـ لـ إـ أـ مـ ئـ اـ دـ عـ وـ جـ رـ لـ اـ بـ يـ صـ وـ تـ وـ تـ اـ مـ جـ رـ تـ لـ اـ هـ ذـ هـ ةـ قـ دـ نـ عـ اـ هـ تـ يـ لـ وـ ئـ سـ مـ
(رـ فـ وـ تـ مـ طـ بـ اـ رـ لـ اـ)ـ يـ لـ صـ أـ لـ اـ يـ زـ يـ لـ جـ نـ إـ لـ اـ دـ نـ تـ سـ مـ لـ اـ).