

Cisco هجومو Windows زاغ نيپ L2TP ق فن دادع

تايوت حمل

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قمدقملا

قأ Windows نيپ ق فن (L2TP) لوكتورب 2 tunneling قوبط لكشي نأ فيك ققيثو اذه فصوي ديدخت جاحسم Cisco و.

قسس اسأل تابلطتملا

تابلطتملا

يلع ناووع يعي بط نراقلا زيزأ عيطتسي قأ Windows نأ قفرعم تنأ يقلتني نأ ي صوي Cisco ديدخت جاحسملا.

قمدختسملا تانوكملا

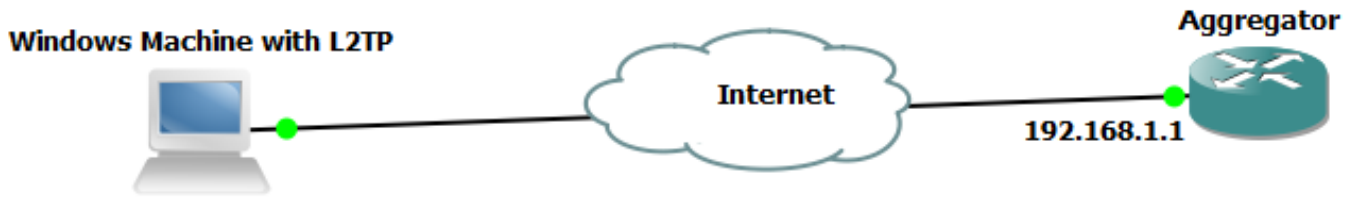
قنعم قيديام تانوكموجمارب تارادصا يلع دننسملا اذه رصتقي ال.

قصاخ قلمعم قئيبي في قدوجوملا قزهأل نم دننسملا اذه في ق دراو لا تامولعمل عاشنإ مت تناك اذا. (يضا رتفا) حوسمم نيوكتب دننسملا اذه في قمدختسملا قزهأل عيجم تادب رما يال لمحتحمل ريثأتلل كمهف نم دكاتف، قرشابم ككتكبش.

نيوكتلا

قكبش ل ل يطيطختلا مسرلا

يلا تلال قكبشلا دادع دننسملا اذه مدختسي



تاني وكالتا

عجم لال نيوكت:

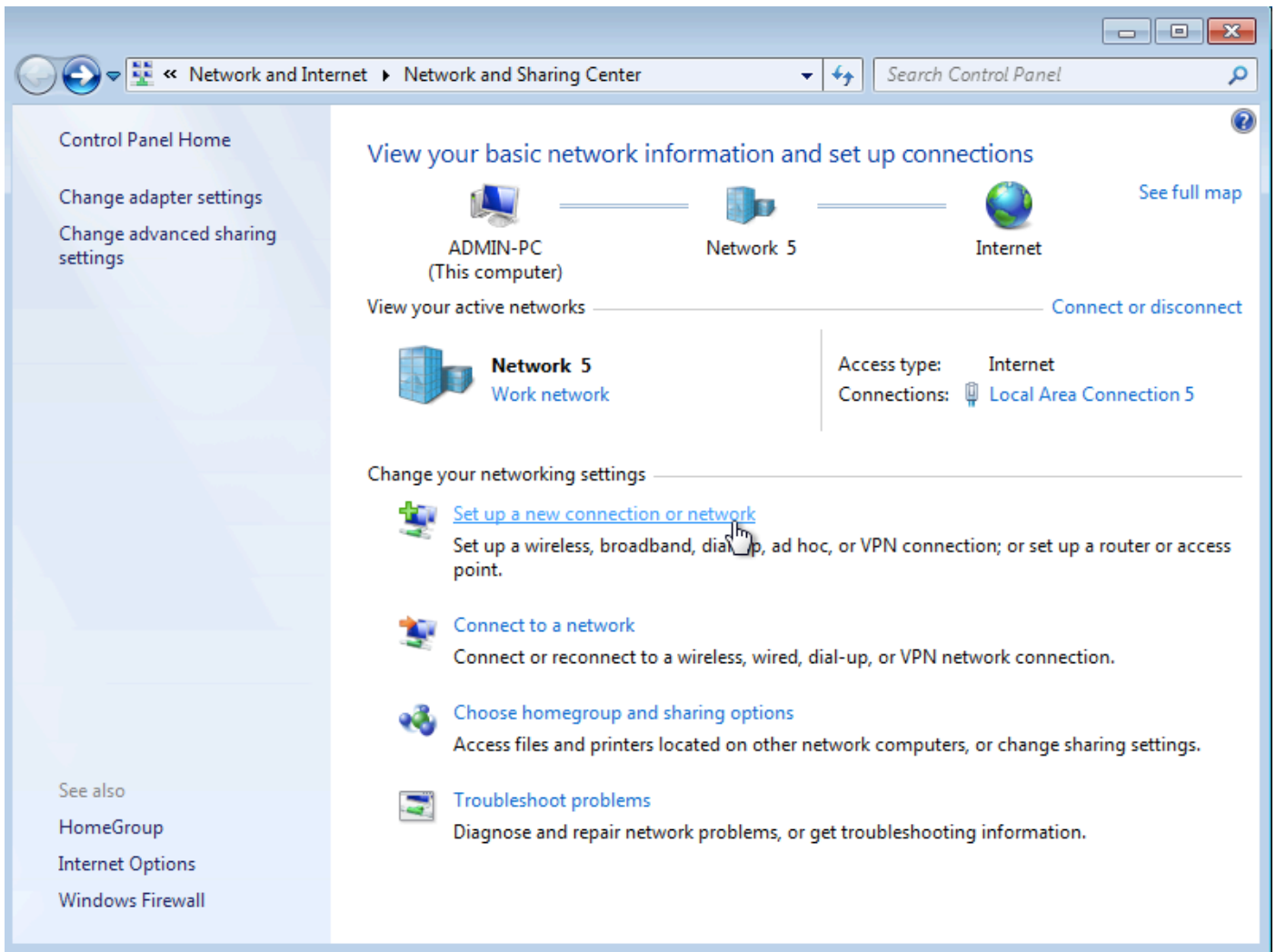
عجم لال نيوكت لى لى لثم ضرع متي

```
interface GigabitEthernet0/0/1
 ip address 192.168.1.1 255.255.255.0
 negotiation auto
end
interface Loopback100
 ip address 172.16.1.1 255.255.255.255
end
vpdn enable
vpdn-group 1
 ! Default L2TP VPDN group
 accept-dialin
 protocol l2tp
 virtual-template 1
no l2tp tunnel authentication interface Virtual-Template1
 ip unnumbered Loopback100
peer default ip address pool test
 ppp authentication chap callout
 ppp ipcp dns 4.2.2.1 4.2.2.2
end
 ip local pool test 10.1.1.2 10.1.1.100
```

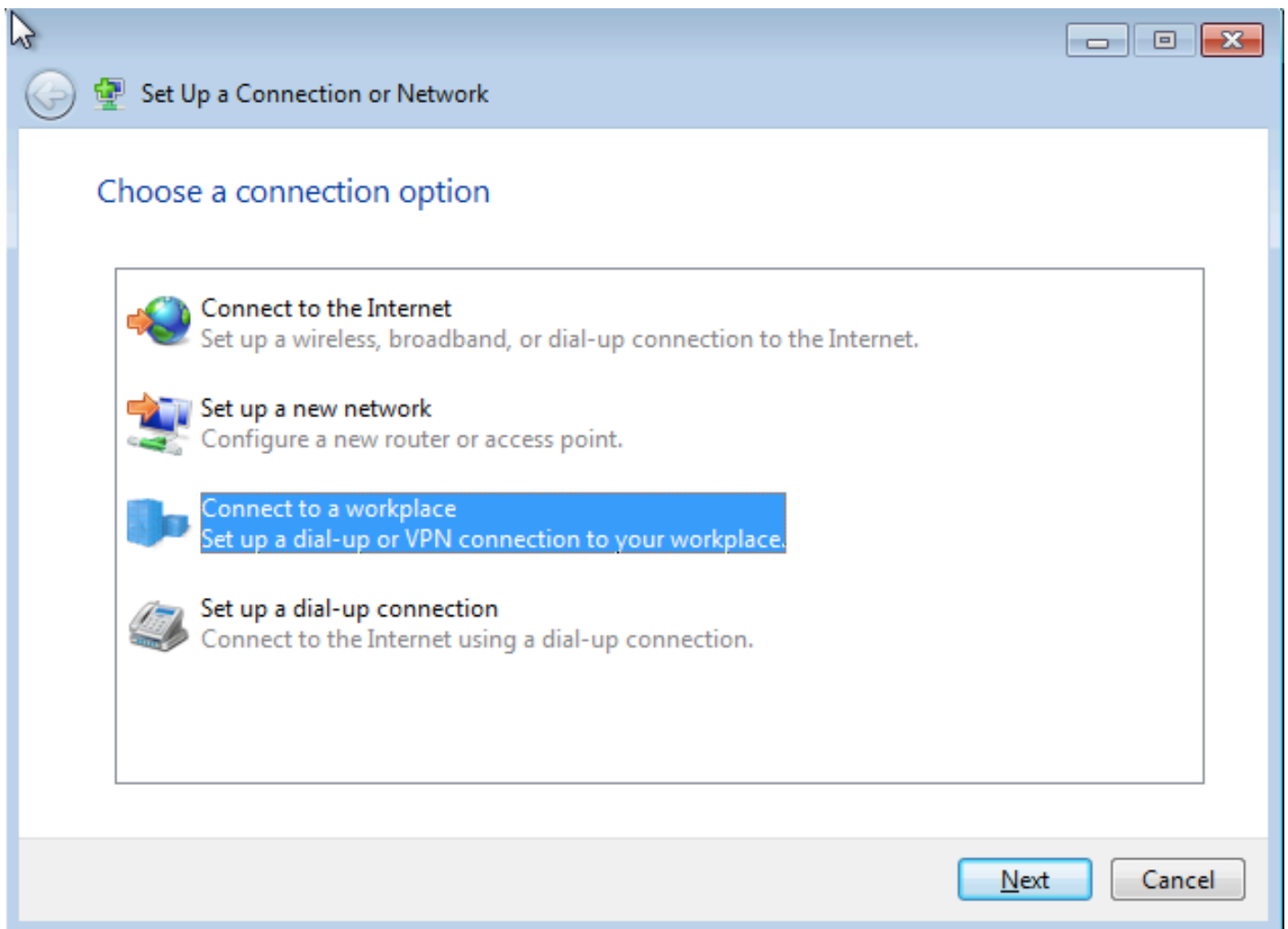
زاهج نيوكت و تادادع

ة لالتا و اوطخال لمكأ:

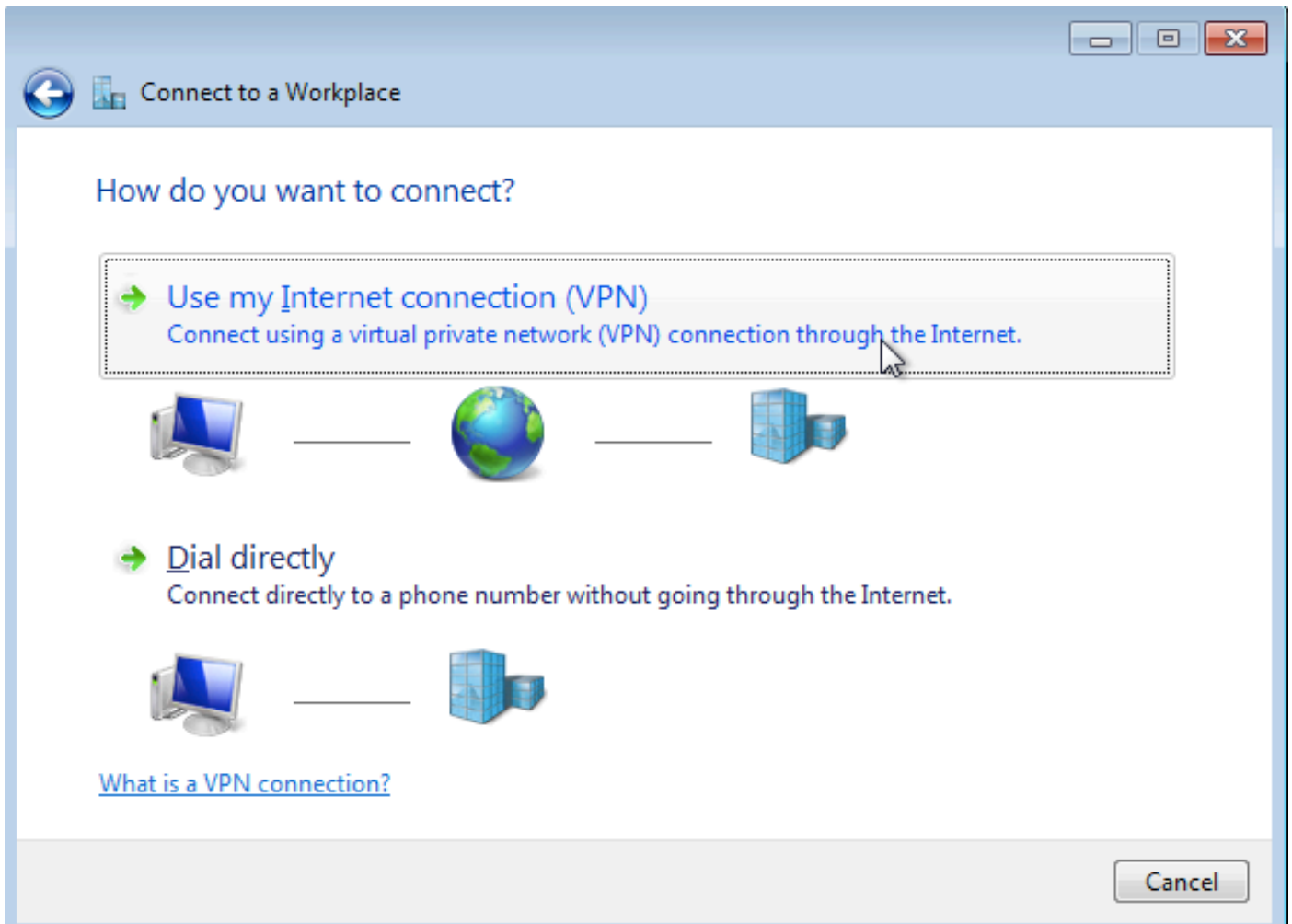
وه امك ة دي دج ة كبش و ا لاصتا دادع | قوف رقناو ة كراش لملاو تاكبش لال زكرم حتا ف. 1 ة ووطخال ة واصلال هذه في حضورم.



يلا تال رقاو لمع ةحاسمب لي صوت ددح . 2 ةوطخلا



(VPN) ت نرتن إلا لاصتا مادختسا ديحت 3 ةوطخلا



لاصتال امسا حنم أو، (192.168.1.1 ةلاحلا هذه يف) عمجملاب صاخلا IP ناونع لخدأ. 4 ةوطخلا
يلاطلا قوف رقناو (VPDN ك مسالا عاطعإ ةلاحلا هذه يف).

Connect to a Workplace

Type the Internet address to connect to

Your network administrator can give you this address.

Internet address: 192.168.1.1

Destination name: VPDN

Use a smart card

Allow other people to use this connection
This option allows anyone with access to this computer to use this connection.

Don't connect now; just set it up so I can connect later

Next Cancel

لې صوت ټوټو، ټولګو username لاندې 5 ټولګو

Connect to a Workplace

Type your user name and password

User name: cisco

Password: ●●●●●

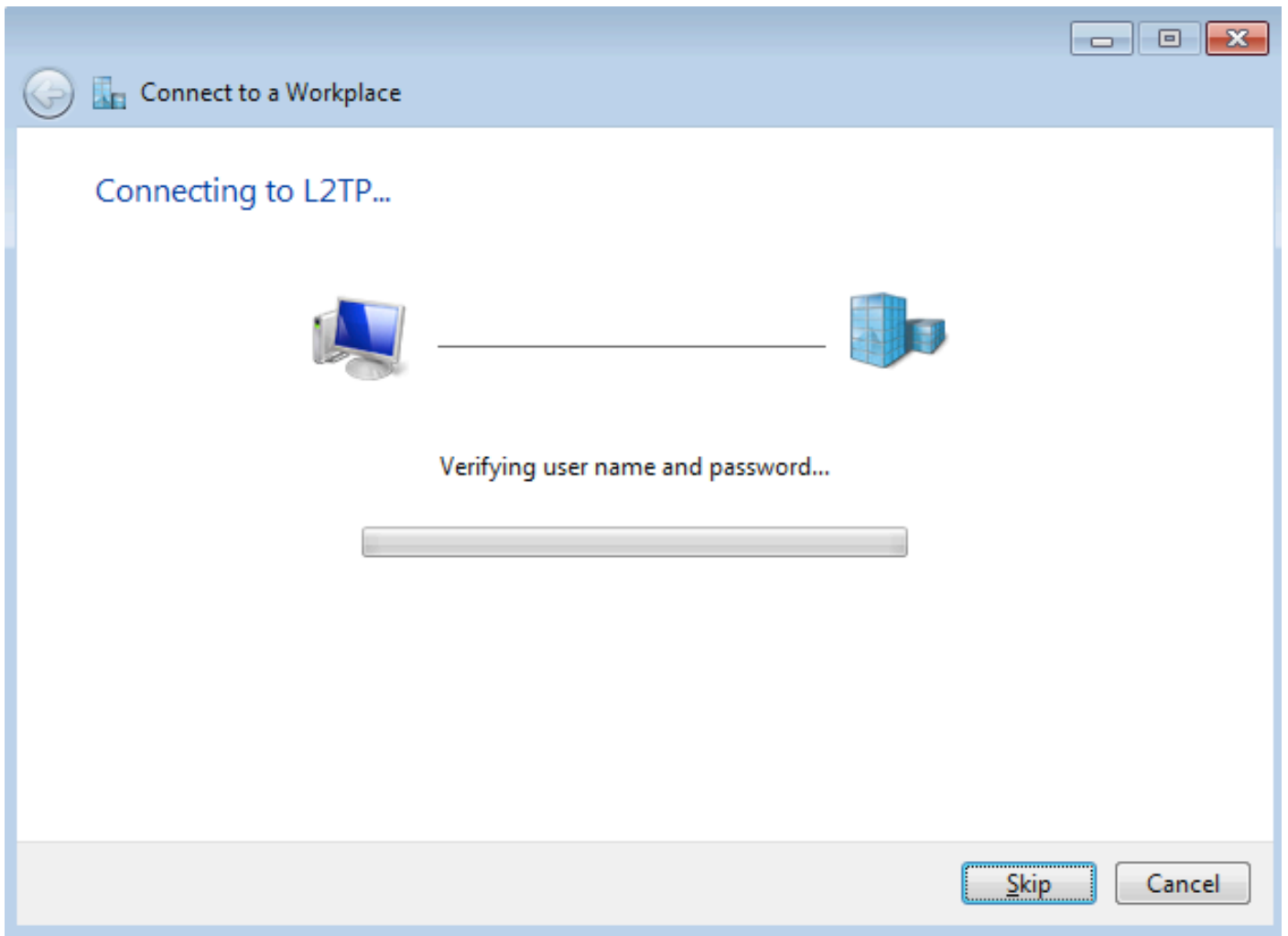
Show characters

Remember this password

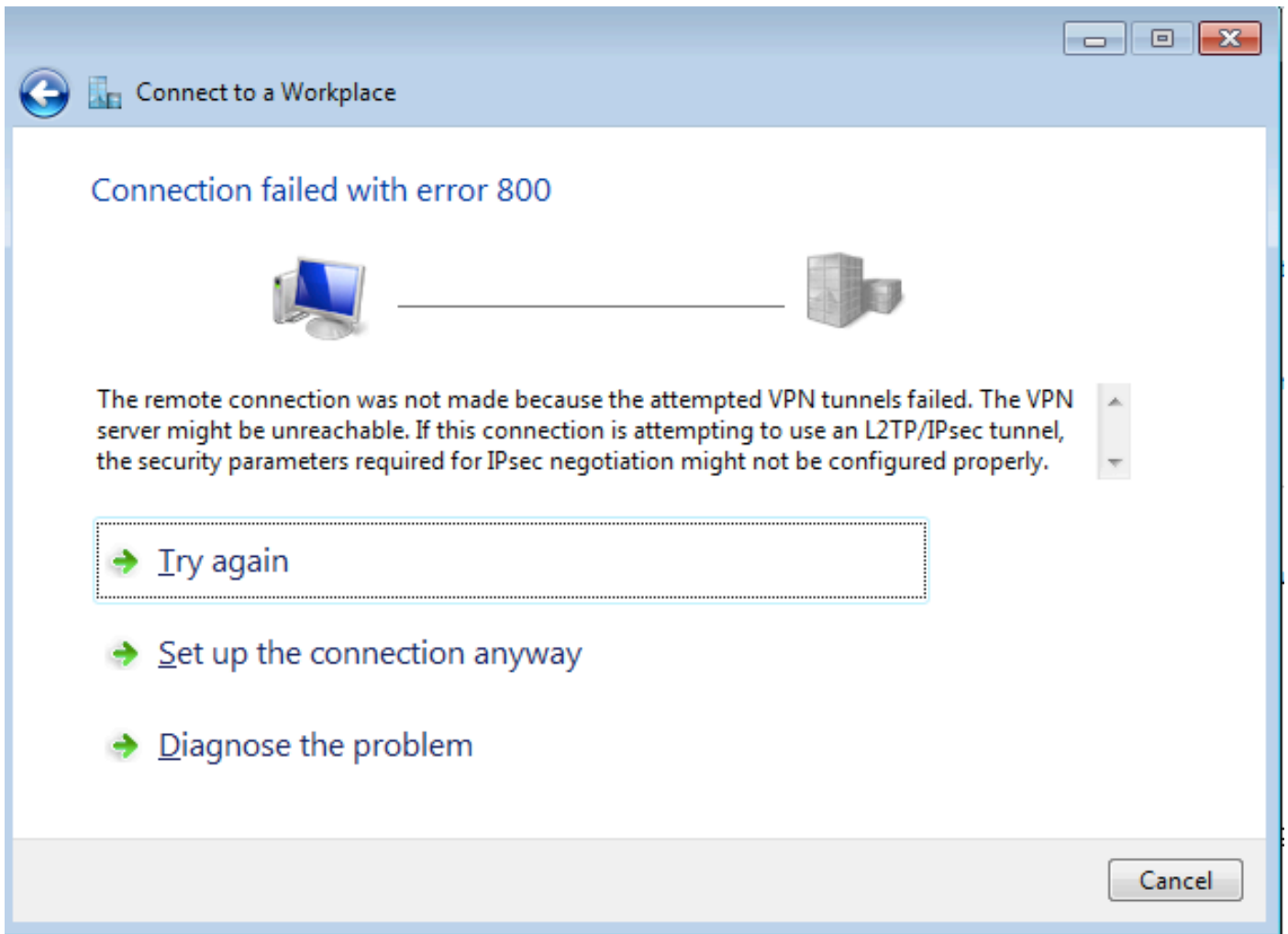
Domain (optional):

Connect Cancel

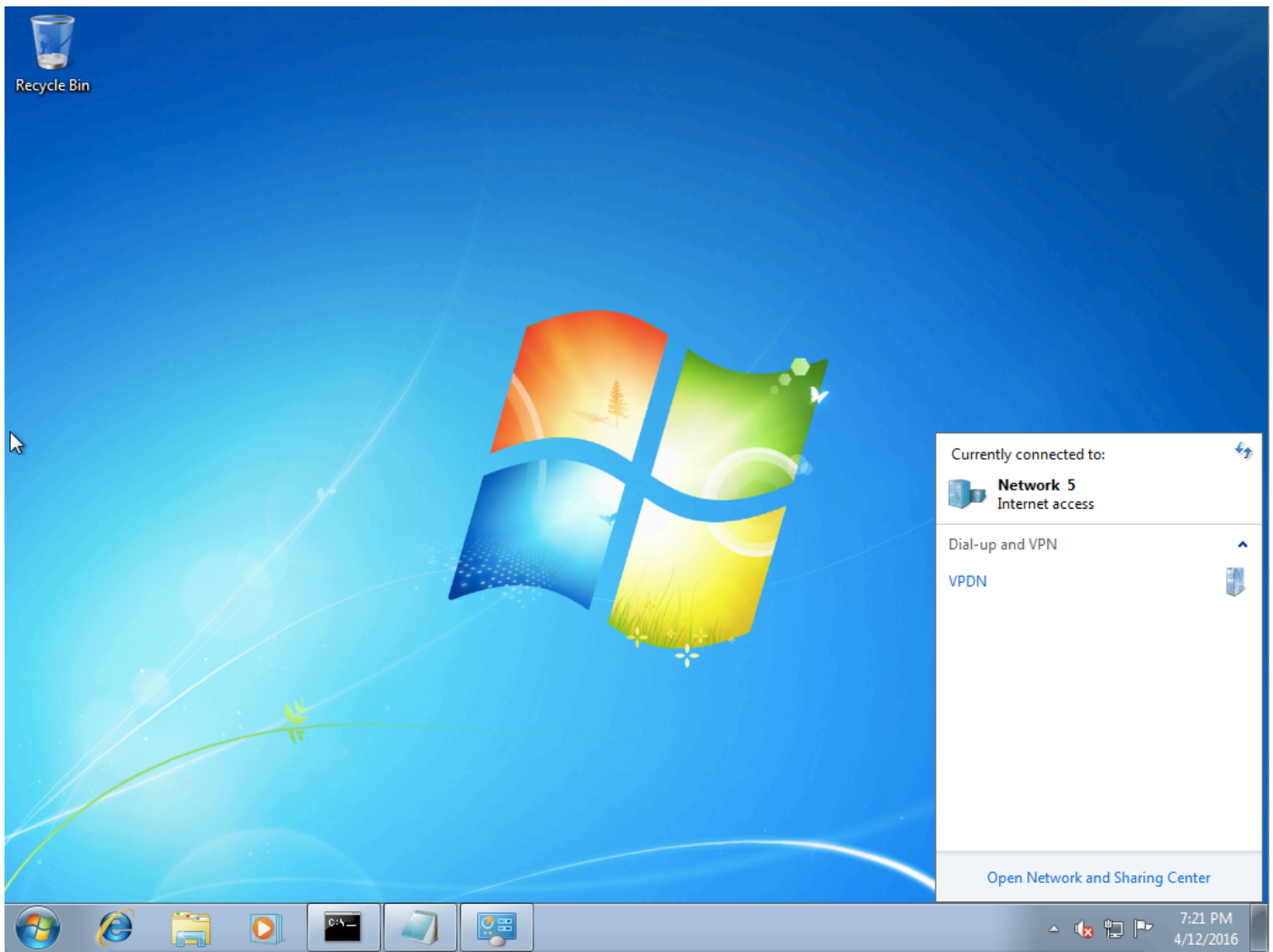
رورملا ةملكو مدختسمل مسانم ققحتلا 6. ةوطخل



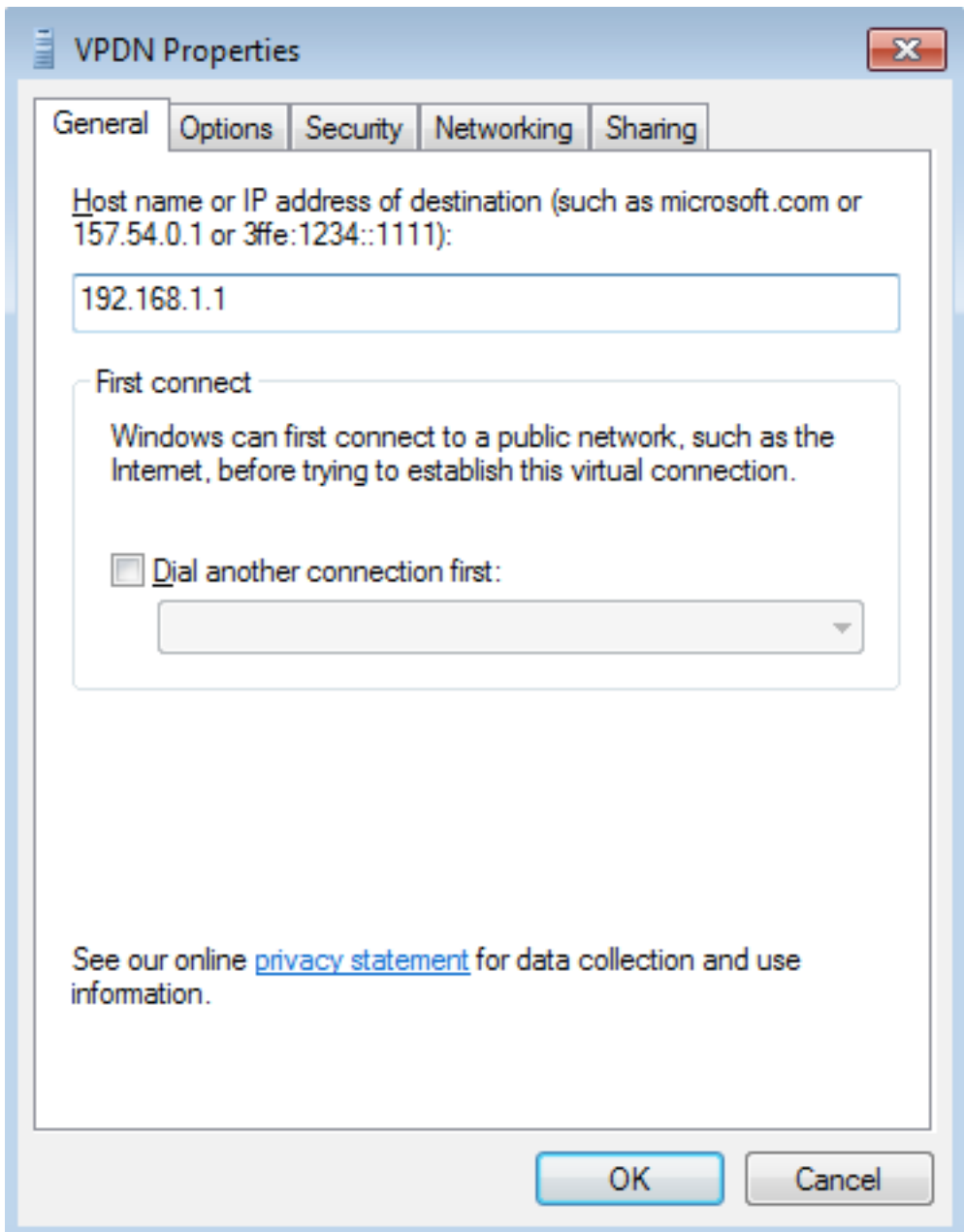
ةروصللا هذه يف حضوم وه امك ةرم لوأل لشفي دق .7 ةوطخللا



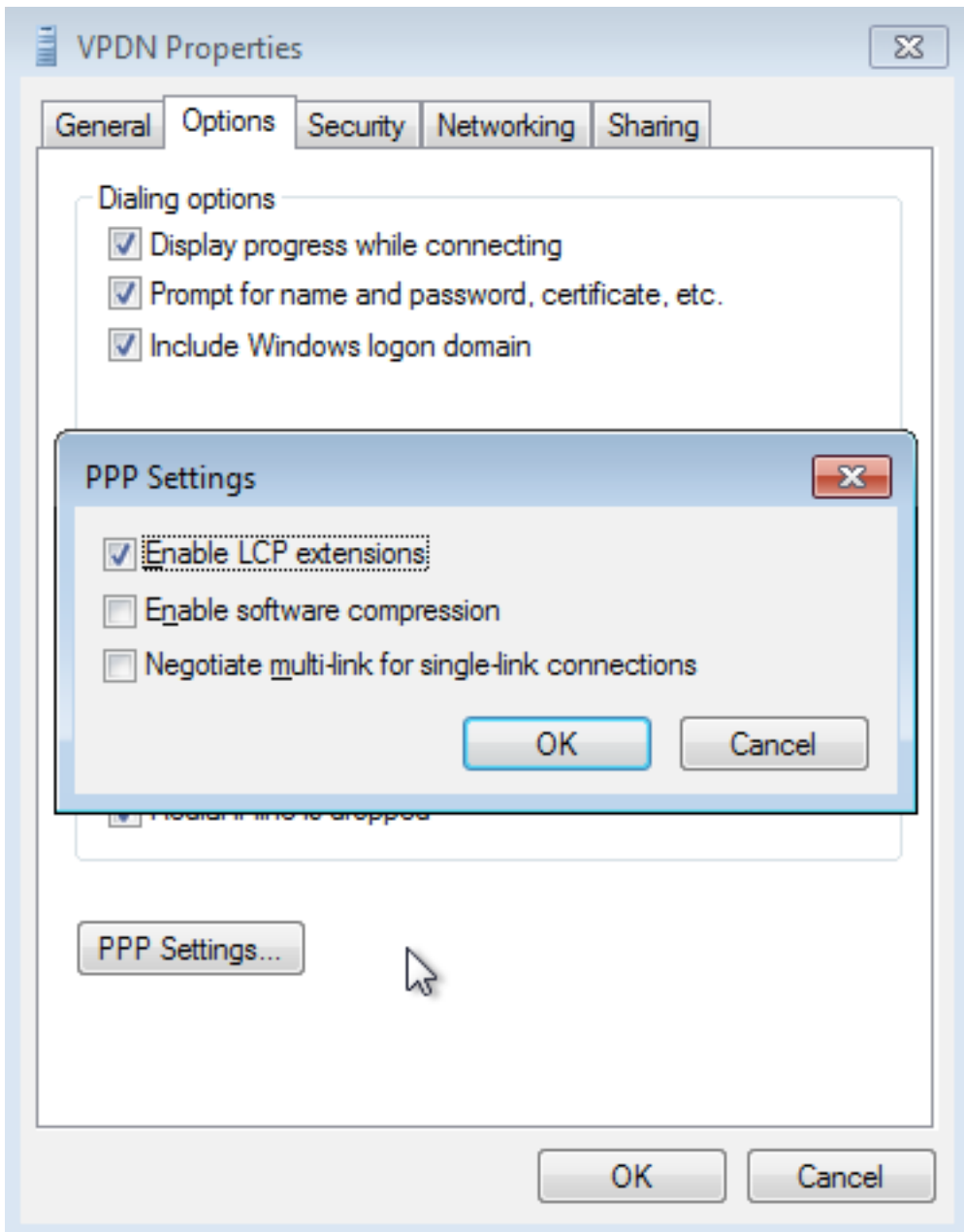
تاكبش لال بيوبت ةمالع حت فاو لاج يأل ل لصوت لال دادعإ ل ع رونا 8. ةوطخلال



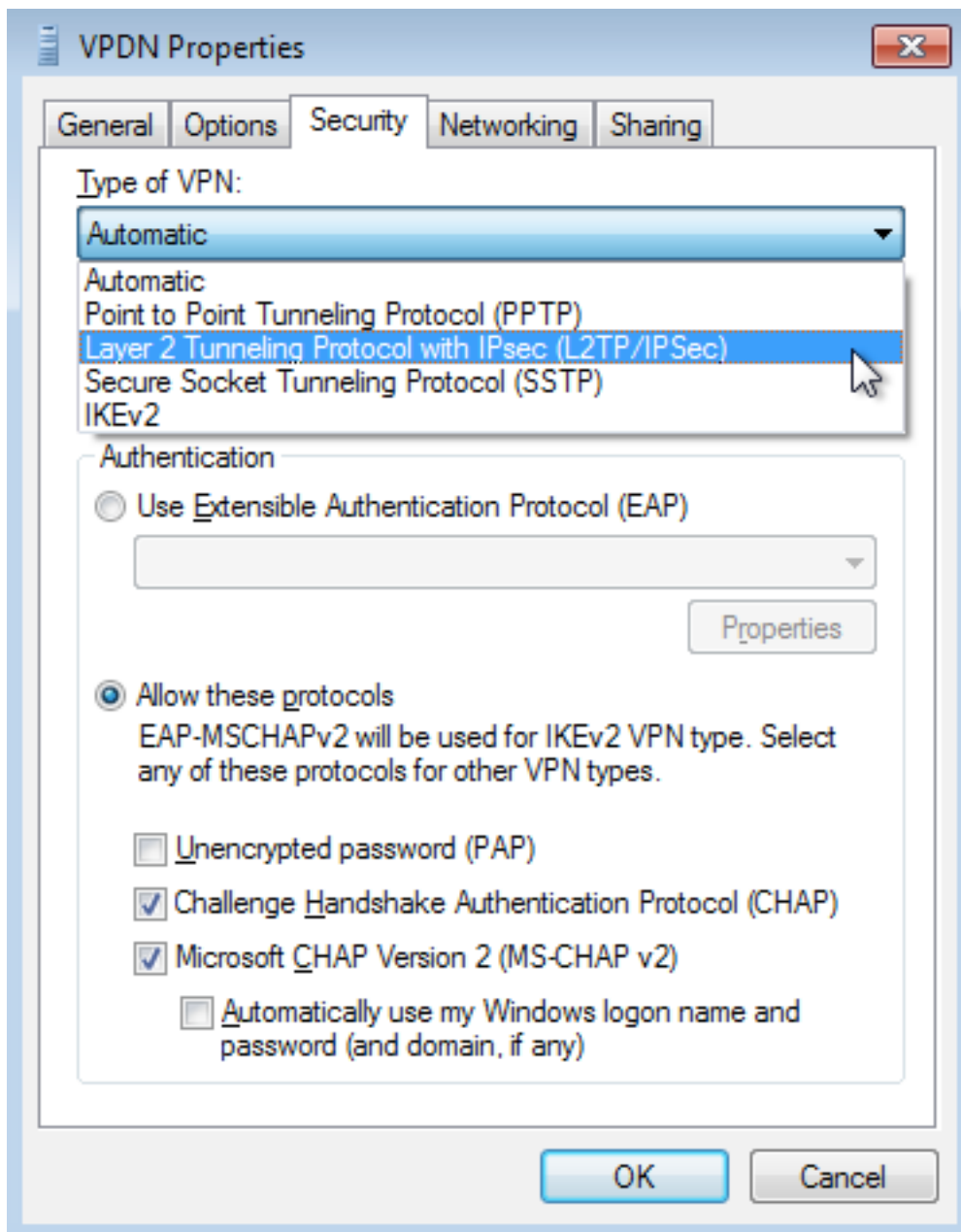
ققحت لا صئاصخ قوف رقناو (VPDN انه) لاصتالا ىلع نميال سواملا رزب رقنا 9 ةوطخلا
عمجملاب صاخلا IP ناو نع نم (192.168.1.1 انه)



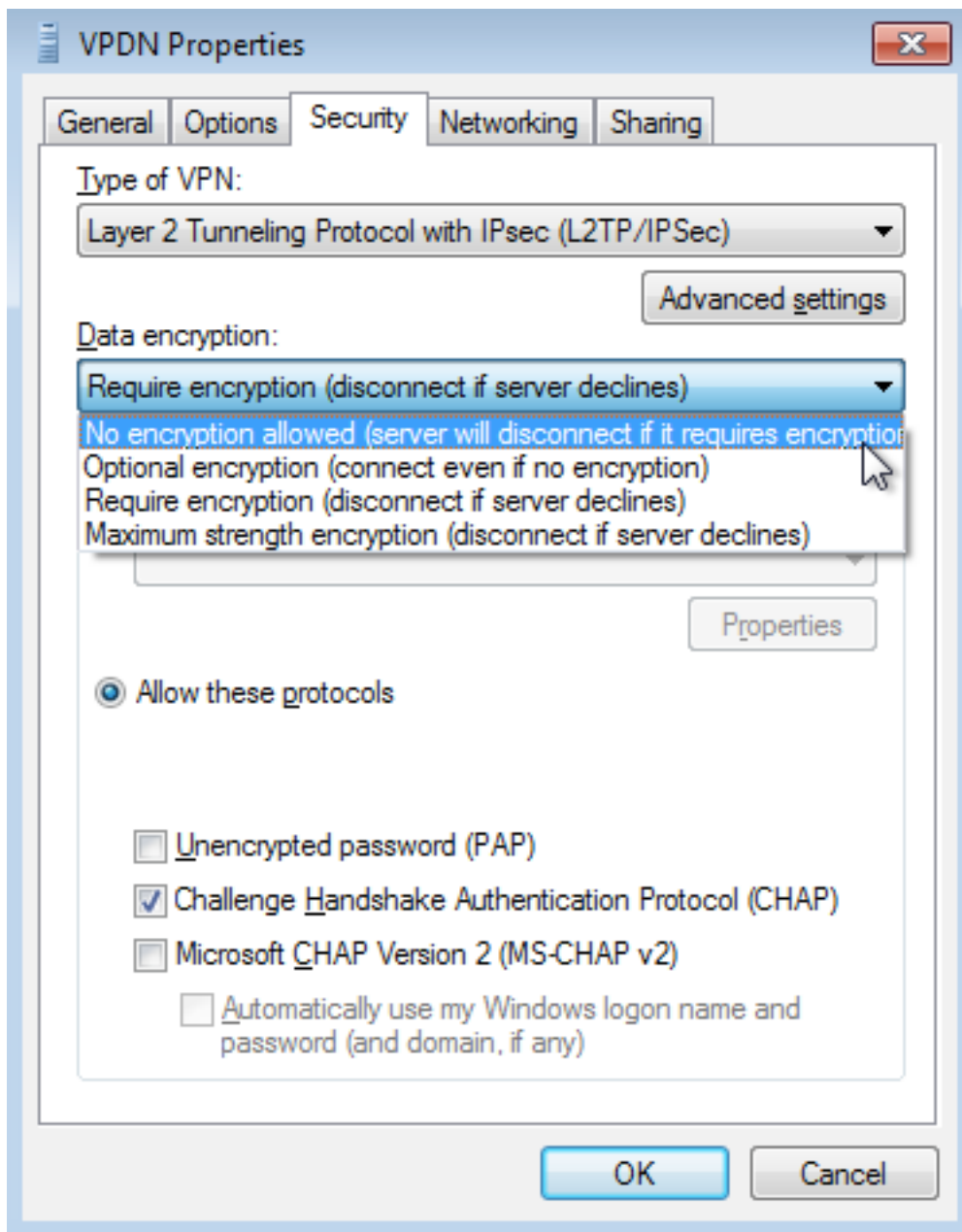
ةروصللا هذه يف حضورم وه امك ،تادادعالا نم ققحتو PPP تادادعالا>تارايفخ ىللا لقتنا .10 ةوطخلا



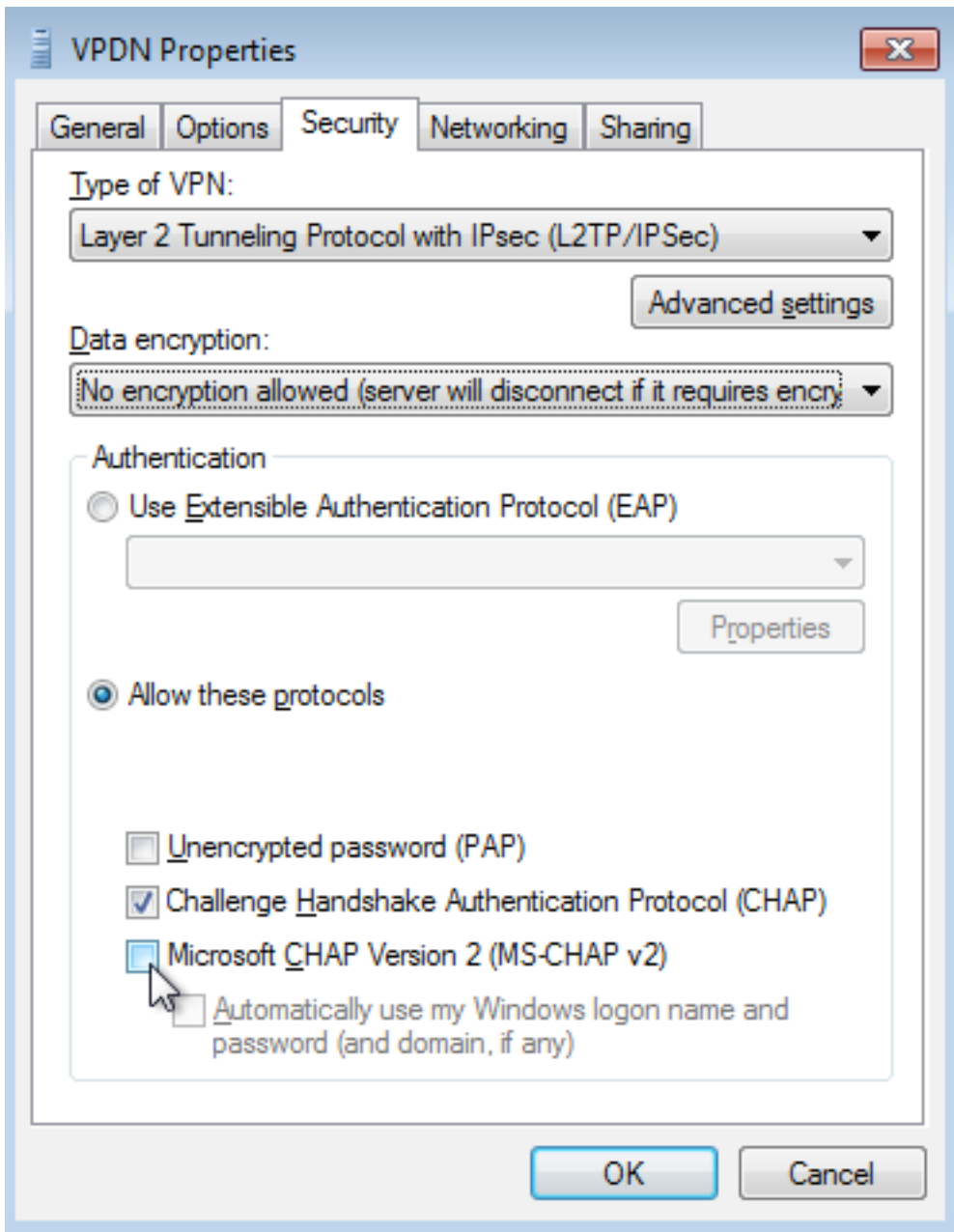
لاصتالات لوكوتورب > (VPN) ةيره اظلال ةصاخلال ةكبشلال عون > نامألال لىل لقتنا 11. ةوطخال ةروصلال هذال ف حضوم وه امك ، IPsec مادختساب 2 ةقبطلال يقفنلال



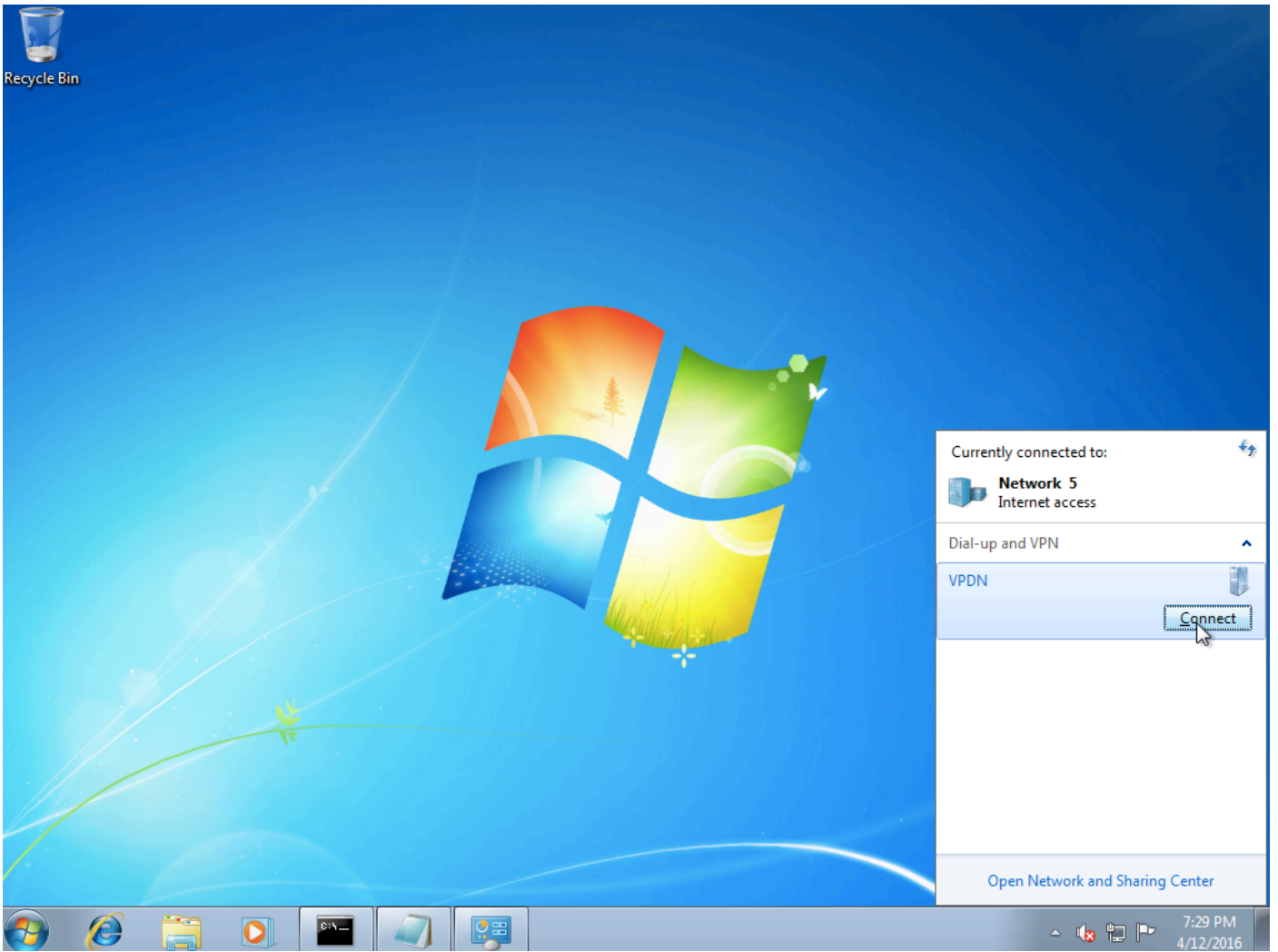
توانایی برقراری اتصال امن را با استفاده از پروتکل امنیتی مورد نیاز را در این پنجره می‌توانید انتخاب کنید. 12. عوطلال



قفاوم قوف رقن او 2 رادصلال Microsoft CHAP ديدحت ءاغلابل مق 13 ةوطخلال



14. لڤي صوت قوف رقناو (VPDN انه) ةكبشلا حتفا ةوطخلا

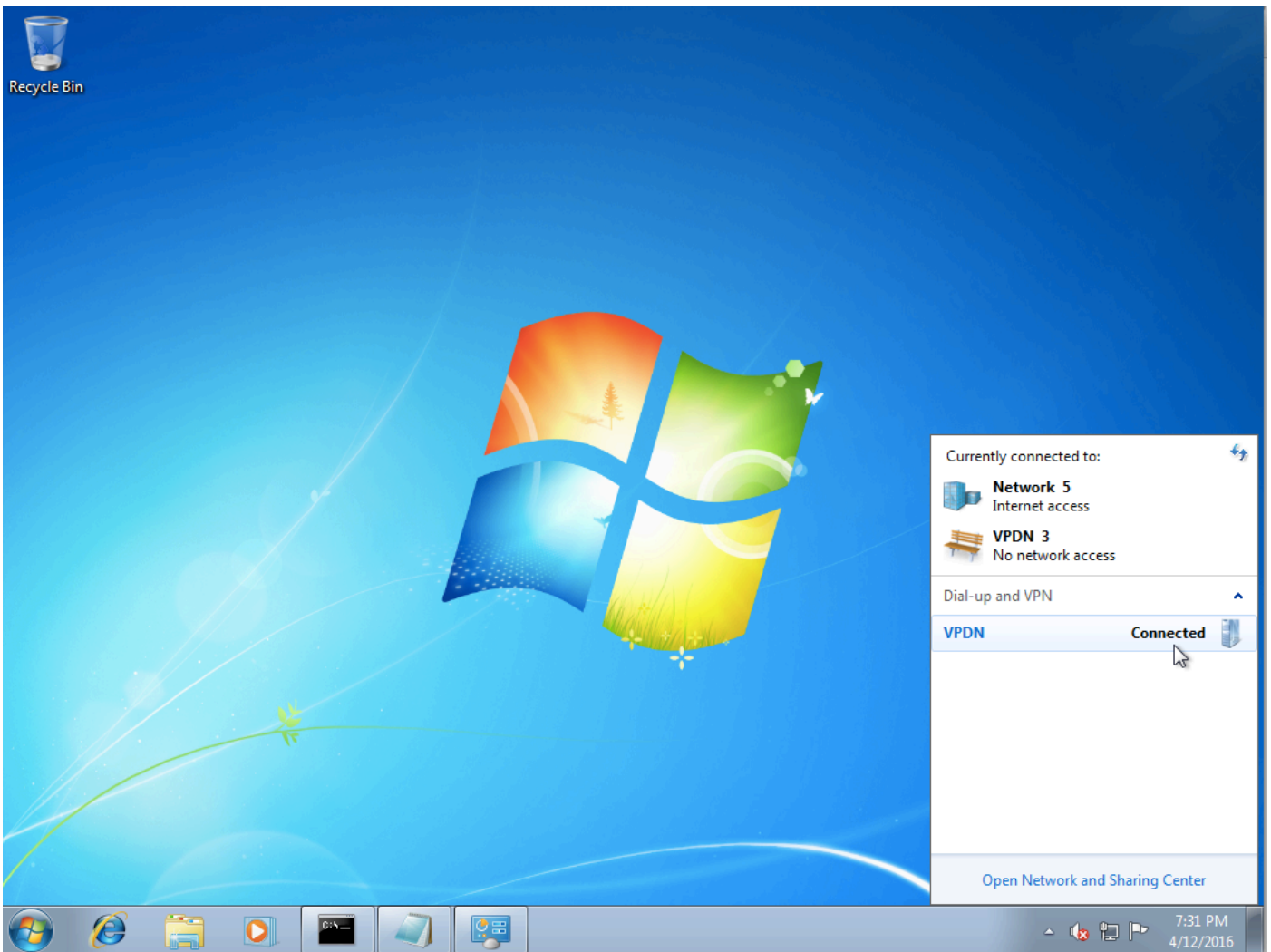


لي صوتة ق ط و ة م ل ك و username تلخد . 15 ة و ط خ ل ا



ةحصللا نم ققحتلا

اذه يف VPDN ةامسمل) ةكبشلا ددح ، ىرخأ ةرم تاكبشلا بىوبتلا ةمالة حتفا 1. ةوطخلا ةلصتم ةلاجل نا نم ققحتو (لاثلما



ipconfig /all رمألا ليغش تب مقو رمأوالا هجوم حت فا 2. ةوطخلال

```

PPP adapter VPDN:

Connection-specific DNS Suffix . . . . . : UPDN
Description . . . . . : 
Physical Address . . . . . : 
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . . : Yes
IPv4 Address. . . . . : 10.1.1.9<Preferred>
Subnet Mask . . . . . : 255.255.255.255
Default Gateway . . . . . : 0.0.0.0
DNS Servers . . . . . : 4.2.2.1
                          4.2.2.2
NetBIOS over Tcpip. . . . . : Enabled
  
```

ةلحرم لامكإ دعب عمجملا ةطساوب (DNS) ي لحرمل مسالا مداخو IPv4 ناوع نييعت متي ل PPP (IPCP) ل تنرتنالا لوكوتورب يف مكحتلال لوكوتورب.

عمجملا سلع رخألا show رمأو debug ppp negotiation رمأ ليغش تب مق 3. ةوطخلال

```

Aggregator#
*Apr 12 06:17:38.148: PPP: Alloc Context [38726D0C]
*Apr 12 06:17:38.148: ppp11 PPP: Phase is ESTABLISHING
*Apr 12 06:17:38.148: ppp11 PPP: Using vpn set call direction
*Apr 12 06:17:38.148: ppp11 PPP: Treating connection as a callin
  
```

```
*Apr 12 06:17:38.148: ppp11 PPP: Session handle[A600000B] Session id[11]
*Apr 12 06:17:38.148: ppp11 LCP: Event[OPEN] State[Initial to Starting]
*Apr 12 06:17:38.148: ppp11 PPP: No remote authentication for call-in
*Apr 12 06:17:38.148: ppp11 PPP LCP: Enter passive mode, state[Stopped]
*Apr 12 06:17:38.607: ppp11 LCP: I CONFREQ [Stopped] id 0 len 21
*Apr 12 06:17:38.607: ppp11 LCP: MRU 1400 (0x01040578)
*Apr 12 06:17:38.607: ppp11 LCP: MagicNumber 0x795C7CD1 (0x0506795C7CD1)
*Apr 12 06:17:38.607: ppp11 LCP: PFC (0x0702)
*Apr 12 06:17:38.607: ppp11 LCP: ACFC (0x0802)
*Apr 12 06:17:38.607: ppp11 LCP: Callback 6 (0x0D0306)
*Apr 12 06:17:38.608: ppp11 LCP: O CONFREQ [Stopped] id 1 len 10
*Apr 12 06:17:38.608: ppp11 LCP: MagicNumber 0xF7C3D2B9 (0x0506F7C3D2B9)
*Apr 12 06:17:38.608: ppp11 LCP: O CONFREQ [Stopped] id 0 len 7
*Apr 12 06:17:38.608: ppp11 LCP: Callback 6 (0x0D0306)
*Apr 12 06:17:38.608: ppp11 LCP: Event[Receive ConfReq-] State[Stopped to REQsent]
*Apr 12 06:17:38.615: ppp11 LCP: I CONFACK [REQsent] id 1 len 10
*Apr 12 06:17:38.615: ppp11 LCP: MagicNumber 0xF7C3D2B9 (0x0506F7C3D2B9)
*Apr 12 06:17:38.615: ppp11 LCP: Event[Receive ConfAck] State[REQsent to ACKrcvd]
*Apr 12 06:17:38.615: ppp11 LCP: I CONFREQ [ACKrcvd] id 1 len 18
*Apr 12 06:17:38.615: ppp11 LCP: MRU 1400 (0x01040578)
*Apr 12 06:17:38.615: ppp11 LCP: MagicNumber 0x795C7CD1 (0x0506795C7CD1)
*Apr 12 06:17:38.616: ppp11 LCP: PFC (0x0702)
*Apr 12 06:17:38.616: ppp11 LCP: ACFC (0x0802)
*Apr 12 06:17:38.616: ppp11 LCP: O CONFNAK [ACKrcvd] id 1 len 8
*Apr 12 06:17:38.616: ppp11 LCP: MRU 1500 (0x010405DC)
*Apr 12 06:17:38.616: ppp11 LCP: Event[Receive ConfReq-] State[ACKrcvd to ACKrcvd]
*Apr 12 06:17:38.617: ppp11 LCP: I CONFREQ [ACKrcvd] id 2 len 18
*Apr 12 06:17:38.617: ppp11 LCP: MRU 1400 (0x01040578)
*Apr 12 06:17:38.617: ppp11 LCP: MagicNumber 0x795C7CD1 (0x0506795C7CD1)
*Apr 12 06:17:38.617: ppp11 LCP: PFC (0x0702)
*Apr 12 06:17:38.617: ppp11 LCP: ACFC (0x0802)
*Apr 12 06:17:38.617: ppp11 LCP: O CONFNAK [ACKrcvd] id 2 len 8
*Apr 12 06:17:38.617: ppp11 LCP: MRU 1500 (0x010405DC)
*Apr 12 06:17:38.617: ppp11 LCP: Event[Receive ConfReq-] State[ACKrcvd to ACKrcvd]
*Apr 12 06:17:38.618: ppp11 LCP: I CONFREQ [ACKrcvd] id 3 len 18
*Apr 12 06:17:38.618: ppp11 LCP: MRU 1500 (0x010405DC)
*Apr 12 06:17:38.618: ppp11 LCP: MagicNumber 0x795C7CD1 (0x0506795C7CD1)
*Apr 12 06:17:38.618: ppp11 LCP: PFC (0x0702)
*Apr 12 06:17:38.618: ppp11 LCP: ACFC (0x0802)
*Apr 12 06:17:38.618: ppp11 LCP: O CONFACK [ACKrcvd] id 3 len 18
*Apr 12 06:17:38.618: ppp11 LCP: MRU 1500 (0x010405DC)
*Apr 12 06:17:38.618: ppp11 LCP: MagicNumber 0x795C7CD1 (0x0506795C7CD1)
*Apr 12 06:17:38.618: ppp11 LCP: PFC (0x0702)
*Apr 12 06:17:38.619: ppp11 LCP: ACFC (0x0802)
*Apr 12 06:17:38.619: ppp11 LCP: Event[Receive ConfReq+] State[ACKrcvd to Open]
*Apr 12 06:17:38.621: ppp11 LCP: I IDENTIFY [Open] id 4 len 18 magic 0x795C7CD1MSRASV5.20
*Apr 12 06:17:38.621: ppp11 LCP: I IDENTIFY [Open] id 5 len 24 magic 0x795C7CD1MSRAS-0-ADMIN-PC
*Apr 12 06:17:38.621: ppp11 LCP: I IDENTIFY [Open] id 6 len 24 magic 0x795C7CD1Z8Of(U3G.cIwR<#!
*Apr 12 06:17:38.626: ppp11 PPP: Queue IPV6CP code[1] id[7]
*Apr 12 06:17:38.626: ppp11 PPP: Queue IPCP code[1] id[8]
*Apr 12 06:17:38.640: ppp11 PPP: Phase is FORWARDING, Attempting Forward
*Apr 12 06:17:38.640: ppp11 LCP: State is Open
*Apr 12 06:17:38.657: Vi3.1 PPP: Phase is ESTABLISHING, Finish LCP
*Apr 12 06:17:38.657: Vi3.1 PPP: Phase is UP
*Apr 12 06:17:38.657: Vi3.1 IPCP: Protocol configured, start CP. state[Initial]
*Apr 12 06:17:38.657: Vi3.1 IPCP: Event[OPEN] State[Initial to Starting]
*Apr 12 06:17:38.657: Vi3.1 IPCP: O CONFREQ [Starting] id 1 len 10
*Apr 12 06:17:38.657: Vi3.1 IPCP: Address 172.16.1.1 (0x0306AC100101)
*Apr 12 06:17:38.657: Vi3.1 IPCP: Event[UP] State[Starting to REQsent]
*Apr 12 06:17:38.657: Vi3.1 PPP: Process pending ncp packets
*Apr 12 06:17:38.657: Vi3.1 IPCP: Redirect packet to Vi3.1
*Apr 12 06:17:38.657: Vi3.1 IPCP: I CONFREQ [REQsent] id 8 len 34
*Apr 12 06:17:38.657: Vi3.1 IPCP: Address 0.0.0.0 (0x030600000000)
*Apr 12 06:17:38.657: Vi3.1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
```

```

*Apr 12 06:17:38.657: Vi3.1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)
*Apr 12 06:17:38.657: Vi3.1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)
*Apr 12 06:17:38.657: Vi3.1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)
*Apr 12 06:17:38.657: Vi3.1 IPCP AUTHOR: Done. Her address 0.0.0.0, we want 0.0.0.0
*Apr 12 06:17:38.657: Vi3.1 IPCP: Pool returned 10.1.1.9
*Apr 12 06:17:38.657: Vi3.1 IPCP: O CONFREQ [REQsent] id 8 len 16
*Apr 12 06:17:38.658: Vi3.1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)
*Apr 12 06:17:38.658: Vi3.1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)
*Apr 12 06:17:38.658: Vi3.1 IPCP: Event[Receive ConfReq-] State[REQsent to REQsent]
*Apr 12 06:17:38.658: Vi3.1 IPV6CP: Redirect packet to Vi3.1
*Apr 12 06:17:38.658: Vi3.1 IPV6CP: I CONFREQ [UNKNOWN] id 7 len 14
*Apr 12 06:17:38.658: Vi3.1 IPV6CP: Interface-Id F0AA:D7A4:5750:D93E (0x010AF0AAD7A45750D93E)
*Apr 12 06:17:38.658: Vi3.1 LCP: O PROTREQ [Open] id 2 len 20 protocol IPV6CP
(0x0107000E010AF0AAD7A45750D93E)
*Apr 12 06:17:38.672: Vi3.1 IPCP: I CONFACK [REQsent] id 1 len 10
*Apr 12 06:17:38.672: Vi3.1 IPCP: Address 172.16.1.1 (0x0306AC100101)
*Apr 12 06:17:38.672: Vi3.1 IPCP: Event[Receive ConfAck] State[REQsent to ACKrcvd]
*Apr 12 06:17:38.672: Vi3.1 IPCP: I CONFREQ [ACKrcvd] id 9 len 22
*Apr 12 06:17:38.672: Vi3.1 IPCP: Address 0.0.0.0 (0x030600000000)
*Apr 12 06:17:38.672: Vi3.1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
*Apr 12 06:17:38.672: Vi3.1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)
*Apr 12 06:17:38.672: Vi3.1 IPCP: O CONFNAK [ACKrcvd] id 9 len 22
*Apr 12 06:17:38.672: Vi3.1 IPCP: Address 10.1.1.9 (0x03060A010109)
*Apr 12 06:17:38.672: Vi3.1 IPCP: PrimaryDNS 4.2.2.1 (0x810604020201)
*Apr 12 06:17:38.672: Vi3.1 IPCP: SecondaryDNS 4.2.2.2 (0x830604020202)
*Apr 12 06:17:38.672: Vi3.1 IPCP: Event[Receive ConfReq-] State[ACKrcvd to ACKrcvd]
*Apr 12 06:17:38.747: Vi3.1 IPCP: I CONFREQ [ACKrcvd] id 10 len 22
*Apr 12 06:17:38.747: Vi3.1 IPCP: Address 10.1.1.9 (0x03060A010109)
*Apr 12 06:17:38.747: Vi3.1 IPCP: PrimaryDNS 4.2.2.1 (0x810604020201)
*Apr 12 06:17:38.747: Vi3.1 IPCP: SecondaryDNS 4.2.2.2 (0x830604020202)
*Apr 12 06:17:38.747: Vi3.1 IPCP: O CONFACK [ACKrcvd] id 10 len 22
*Apr 12 06:17:38.748: Vi3.1 IPCP: Address 10.1.1.9 (0x03060A010109)
*Apr 12 06:17:38.748: Vi3.1 IPCP: PrimaryDNS 4.2.2.1 (0x810604020201)
*Apr 12 06:17:38.748: Vi3.1 IPCP: SecondaryDNS 4.2.2.2 (0x830604020202)
*Apr 12 06:17:38.748: Vi3.1 IPCP: Event[Receive ConfReq+] State[ACKrcvd to Open]
*Apr 12 06:17:38.768: Vi3.1 IPCP: State is Open
*Apr 12 06:17:38.769: Vi3.1 Added to neighbor route AVL tree: topoid 0, address 10.1.1.9
*Apr 12 06:17:38.769: Vi3.1 IPCP: Install route to 10.1.1.9

```

```
Aggregator#show caller ip
```

Line	User	IP Address	Local Number	Remote Number	<->
Vi3.1	-	10.1.1.9	-	-	in

```
Aggregator#show ip interface brief | exclude un
```

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet0/0/1	192.168.1.1	YES	manual	up	up
Loopback100	172.16.1.1	YES	manual	up	up

عمم جمل الفلخ ةديعب لال ةكبش لال ال لوصول Windows زاهج ل نكمي ناك اذا ام ققحت 4. ةوطخل (ف Loopback 100 ةهجاو ةلال هذه في)

```
C:\Users\admin>ping 172.16.1.1

Pinging 172.16.1.1 with 32 bytes of data:
Reply from 172.16.1.1: bytes=32 time=1ms TTL=255
Reply from 172.16.1.1: bytes=32 time<1ms TTL=255
Reply from 172.16.1.1: bytes=32 time<1ms TTL=255
Reply from 172.16.1.1: bytes=32 time<1ms TTL=255

Ping statistics for 172.16.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

اهحالصإو ءاطخأل فاشكتسا

نڤوكتلا اذهل اءحالصإو ءاطخأل فاشكتسال ءءءم تامولعم آيلاح رفوتت ال

ءلص تاذ تامولعم

- [VPDN مهفڤي](#)
- [تاءنتسمل اوڤنقتلا معدلات - Cisco Systems](#)

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 لاعل او
ىل إأمءءاد ءوچرلاب ةصوء و تامةرتل هذه ةقء نء اهءل وئس م Cisco
Systems (رفوتم طبارل) ةلصلأل ةزءل ءن إل دن تسمل