Configuring GRE Tunnel Over Cable

Document ID: 12084

Introduction Before You Begin Conventions Prerequisites Components Used Background Theory Configure Network Diagram Configurations Verify Troubleshoot Related Information

Introduction

This document contains descriptions, configurations and verifications for Generic Routing Encapsulation (GRE) in a cable environment. GRE is a tunneling protocol developed by Cisco that encapsulates a wide variety of protocol packet types inside IP tunnels.

Before You Begin

Conventions

For more information on document conventions, see the Cisco Technical Tips Conventions.

Prerequisites

There are no specific prerequisites for this document.

Components Used

The information in this document is based on the software and hardware versions below.

• Cable Modem uBR924 running Cisco IOS® Software Release 12.1(5)T4

Note: Although it is possible to configure GRE tunnels in other Cisco cable modem platforms, such as on the uBR904 using different Cisco IOS versions, the official support for this feature is on Cisco IOS 12.1(5)T4 for uBR920 and from Cisco IOS 12.1(3) for uBR910.

Cable Modem Platform	Cisco IOS Software Release
uBR920	12 1(5)TA
uBR910	From 12.1(3) and later

To run this configuration, you need to have IP connectivity between the two cable modems.

The information presented in this document was created from devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If you are working in a live network, ensure that you understand the potential impact of any command before using it.

Background Theory

Tunneling provides a way to encapsulate packets of a foreign protocol inside a transport protocol. Tunneling is implemented as a virtual interface to provide a simple interface for configuration. The tunnel interface is not tied to specific passenger or transport protocols, however, it is an architecture that is designed to provide the services necessary to implement any standard point–to–point encapsulation scheme. Tunnels are point–to–point links, and you must configure a separate tunnel for each link.

GRE creates a virtual point-to-point link to Cisco routers at remote points over an IP internetwork. By connecting multiprotocol subnetworks in a single-protocol backbone environment, IP tunneling using GRE allows network expansion across a single-protocol backbone environment. A Cable Modem Termination System (CMTS) is any Data-over-Cable Service Interface Specifications (DOCSIS)-compliant headend cable router, such as the Cisco uBR7246, uBR7223, or uBR7246VXR.

Configure

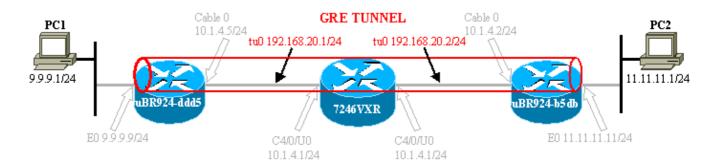
In this section, you are presented with the information to configure the features described in this document.

Network Diagram

This document uses the network setup shown in the diagram below.

This setup creates a tunnel between the two cable modems uBR924–ddd5 and uBR924–b5db. The example below uses two uBR924s and a uBR7246VXR. For this set up, the names of the cable modems are ubr924–ddd5 and ubr924–b5db, and they use Cisco IOS version 12.1(5)T4. The tunnel interfaces are dynamically created in global configuration mode by issuing the command **interface tunnel 0**.

Note: The uBR900 cable modems do not have to be connected to the same uBR7200 CMTS or the same service provider's network as long as there is IP connectivity between the two cable modems.



Configurations

This document uses the configurations shown below.

Note: Bold text refers to GRE related commands. Comments are in blue and refer to the line above.



```
version 12.1
no service single-slot-reload-enable
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
1
hostname ubr924-ddd5
1
logging rate-limit console 10 except errors
1
clock timezone - -80
ip subnet-zero
no ip finger
!
call rsvp-sync
1
1
1
1
!
!
1
1
interface Tunnel0
!--- Tunnel interface 0.
ip address 192.168.20.1 255.255.255.0
!--- IP address of the GRE tunnel interface 0.
tunnel source Ethernet0
!--- IP source of the tunnel. It is best to make this an
!--- interface with a public, routable IP address so that
!--- it is reachable from the other endpoint of the tunnel.
tunnel destination 11.11.11.11
!--- IP destination of the tunnel. Make sure this is
!--- reachable via the ping command
!--- Otherwise, the tunnel will not be created properly.
interface Ethernet0
ip address 9.9.9.9 255.255.255.0
ip rip send version 2
!--- Send RIP version 2 packets.
ip rip receive version 2
!--- Receive RIP version 2 packets.
interface cable-modem0
ip rip send version 2
!--- Send RIP version 2 packets.
```

```
ip rip receive version 2
!--- Receive RIP version 2 packets.
cable-modem downstream saved channel 525000000 40 1
cable-modem mac-timer t2 40000
no cable-modem compliant bridge
!
router rip
version 2
passive-interface Tunnel0
!--- This command is used to avoid recursive routing.
network 10.0.0.0
network 9.0.0.0
no auto-summary
!
ip default-gateway 10.1.4.1
ip classless
no ip http server
no ip http cable-monitor
1
snmp-server packetsize 4096
snmp-server manager
1
voice-port 0
input gain -2
!
voice-port 1
input gain -2
1
Ţ
line con 0
transport input none
line vty 0 4
login
1
end
```

ubr924-ddd5#

ubr924-b5db

```
version 12.1
no service single-slot-reload-enable
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname ubr924-b5db
1
logging rate-limit console 10 except errors
enable password ww
1
clock timezone - -80
ip subnet-zero
no ip finger
!
mgcp
call rsvp-sync
!
!
```

```
!
1
1
1
1
1
1
interface Tunnel0
!--- Tunnel interface 0
ip address 192.168.20.2 255.255.255.0
!--- IP address of the gre tunnel interface 0
tunnel source Ethernet0
!--- IP source of the tunnel. It is best to make this an
!--- interface with a public, routable IP address so that
!--- it is reachable from the other endpoint of the tunnel.
tunnel destination 9.9.9.9
!--- IP destination of the tunnel. Make sure this is
!--- reachable via the ping command
!--- Otherwise, the tunnel will not be created properly.
interface Ethernet0
ip address 11.11.11.11 255.255.255.0
ip rip send version 2
!--- Send RIP version 2 packets.
ip rip receive version 2
!--- Receive RIP version 2 packets.
no ip route-cache
no ip mroute-cache
1
interface cable-modem0
ip rip send version 2
!--- Send RIP version 2 packets.
ip rip receive version 2
!--- Receive RIP version 2 packets.
no ip route-cache
no ip mroute-cache
no cable-modem compliant bridge
1
router rip
version 2
passive-interface Tunnel0
!--- This command is used to avoid recursive routing.
```

1

```
network 10.0.0.0
network 11.0.0.0
no auto-summary
1
ip default-gateway 10.1.4.1
ip classless
no ip http server
no ip http cable-monitor
1
snmp-server packetsize 4096
snmp-server manager
1
voice-port 0
input gain -2
1
voice-port 1
input gain -2
!
1
line con O
exec-timeout 0 0
transport input none
line vty 0 4
password ww
login
1
end
ubr924-b5db#
```

Verify

This section provides information you can use to confirm your configuration is working properly.

Certain **show** commands are supported by the Output Interpreter tool, which allows you to view an analysis of **show** command output.

Verify that the CMTS (7246VXR) configuration is correct, and that the cable modems are online. The configuration of the CMTS is shown below.

```
7246VXR#show run
Building configuration ...
Current configuration : 4579 bytes
1
! Last configuration change at 13:22:17 PDT Mon Feb 26 2001
! NVRAM config last updated at 13:22:46 PDT Mon Feb 26 2001
1
version 12.1
no service single-slot-reload-enable
no service pad
service timestamps debug datetime msec localtime
service timestamps log datetime localtime
no service password-encryption
service linenumber
service udp-small-servers max-servers no-limit
hostname 7246VXR
1
logging buffered 1000000 debugging
logging rate-limit console 10 except errors
enable password cable
1
```

```
cable gos profile 8
cable qos profile 10
cable qos profile 10 grant-size 1500
cable qos profile 12 guaranteed-upstream 100000
no cable qos permission create
no cable qos permission update
cable gos permission modems
cable time-server
clock timezone PDT -8
clock summer-time PDT recurring
clock calendar-valid
ip subnet-zero
no ip finger
1
interface Ethernet2/0
ip address 172.16.30.4 255.255.255.192
no ip mroute-cache
half-duplex
Ţ
interface Cable4/0
 ip address 172.16.29.1 255.255.255.224 secondary
 ip address 10.1.4.1 255.255.255.0
 no keepalive
 cable downstream rate-limit token-bucket shaping
 cable downstream annex B
 cable downstream modulation 64gam
 cable downstream interleave-depth 32
 cable downstream frequency 555000000
 cable upstream 0 frequency 4000000
 cable upstream 0 power-level 0
no cable upstream 0 shutdown
 cable upstream 1 shutdown
 cable upstream 2 shutdown
 cable upstream 3 shutdown
 cable upstream 4 shutdown
 cable upstream 5 shutdown
 cable dhcp-giaddr policy
 cable helper-address 172.16.30.2
1
interface Cable5/0
 ip address 172.16.29.225 255.255.255.224 secondary
 ip address 10.1.5.1 255.255.255.0
 load-interval 30
 no keepalive
 cable downstream rate-limit token-bucket shaping
 cable downstream annex B
 cable downstream modulation 64qam
 cable downstream interleave-depth 32
 cable downstream frequency 62000000
 cable upstream 0 frequency 25008000
 cable upstream 0 power-level 0
 no cable upstream 0 shutdown
no cable upstream 1 shutdown
cable dhcp-giaddr policy
!
router eigrp 202
redistribute connected
redistribute static
network 10.0.0.0
network 172.16.0.0
no auto-summary
no eigrp log-neighbor-changes
!
router rip
 version 2
```

```
redistribute connected
  redistribute static
  network 10.0.0.0
  network 172.16.0.0
 no auto-summary
1
ip default-gateway 172.16.30.1
ip classless
ip route 0.0.0.0 0.0.0.0 172.16.30.1
ip route 172.16.30.0 255.255.255.0 Ethernet2/0
ip http server
ip http authentication local
!
access-list 188 permit tcp any any eq www log
access-list 188 permit ip any any
route-map docsis permit 10
1
snmp-server engineID local 0000009020000E01ED77E40
snmp-server community public RO
snmp-server community private RW
line con 0
  exec-timeout 0 0
  transport input none
line aux 0
 speed 19200
line vty 0 4
 session-timeout 60
  exec-timeout 0 0
1
ntp clock-period 17179973
end
7246VXR#show cable modem
Interface Prim Online Timing Rec QoS CPE IP address
Sid State Offset Power
                                                                                                            MAC address

      Cable4/0/U0
      69
      online
      2812
      0.25
      5
      0
      10.1.4.3

      Cable4/0/U0
      70
      online
      2288
      0.00
      5
      0
      10.1.4.6

      Cable4/0/U0
      71
      online
      2289
      0.50
      5
      0
      10.1.4.2

      Cable4/0/U0
      72
      online
      2812
      0.00
      5
      0
      10.1.4.4

      Cable4/0/U0
      73
      online
      2812
      -0.75
      5
      0
      10.1.4.5

      Cable4/0/U0
      74
      online
      2813
      0.25
      5
      0
      10.1.4.7

                                                                                                            0002.1685.b5db
                                                                                                           0010.7bed.9b23
                                                                                                           0010.7bed.9b45
                                                                                                           0002.fdfa.0a63
                                                                                                            0004.2752.ddd5
                                                                                                             0001.64ff.e47d
```

If the cable modems online state does not show online, refer to Troubleshooting uBR Cable Modems Not Coming Online document.

7246VXR# show ip interface	brief		
Interface	IP-Address	OK? Method Status	Protocol
FastEthernet0/0	192.168.7.253	YES NVRAM up	down
Ethernet2/0	172.16.30.4	YES manual up	up
Ethernet2/1	unassigned	YES NVRAM administratively down	down
Ethernet2/2	unassigned	YES NVRAM administratively down	down
Ethernet2/3	unassigned	YES NVRAM administratively down	down
Cable3/0	10.1.3.1	YES manual up	up
Cable4/0	10.1.4.1	YES manual up	up
Cable5/0	10.1.5.1	YES manual up	up
7246VXR# show ip route			
Codes: C - connected, S -	static, I - IGRP	, R - RIP, M - mobile, B - BGP	
D - EIGRP, EX - EIG	RP external, O -	OSPF, IA – OSPF inter area	
N1 - OSPF NSSA exte	rnal type 1, N2	- OSPF NSSA external type 2	
E1 - OSPF external	type 1, E2 - OSP	F external type 2, E - EGP	
		IS-IS level-2, ia - IS-IS inter a	rea
* – candidate defau	lt, U - per-user	static route, o - ODR	
P - periodic downlo	aded static rout	e	

Gateway of last resort is 172.16.30.1 to network 0.0.0.0 172.16.0.0/16 is variably subnetted, 4 subnets, 3 masks 172.16.29.224/27 is directly connected, Cable5/0 С С 172.16.29.0/27 is directly connected, Cable4/0 S 172.16.30.0/24 is directly connected, Ethernet2/0 172.16.30.0/26 is directly connected, Ethernet2/0 С 9.0.0.0/24 is subnetted, 1 subnets R 9.9.9.0 [120/1] via 10.1.4.5, 00:00:09, Cable4/0 192.168.20.0/24 [120/1] via 10.1.4.5, 00:00:09, Cable4/0 R 10.0.0.0/8 is variably subnetted, 5 subnets, 2 masks С 10.1.3.0/24 is directly connected, Cable3/0 R 10.5.5.0/24 [120/1] via 10.1.4.4, 00:00:01, Cable4/0 10.0.0.0/8 [120/1] via 172.16.30.10, 00:00:24, Ethernet2/0 R 10.1.5.0/24 is directly connected, Cable5/0 С C 10.1.4.0/24 is directly connected, Cable4/0 11.0.0.0/24 is subnetted, 1 subnets R 11.11.11.0 [120/1] via 10.1.4.3, 00:00:15, Cable4/0 S* 0.0.0/0 is directly connected

From the cable modems side, verify the **sh version** of both devices, as shown below.

ubr924-ddd5#sh ver Cisco Internetwork Operating System Software IOS (tm) 920 Software (UBR920-K1V4Y556I-M), Version 12.1(5)T4, RELEASE SOFTWARE (fc1) TAC Support: http://www.cisco.com/pcgi-bin/ibld/view.pl?i=support Copyright (c) 1986-2001 by cisco Systems, Inc. Compiled Fri 02-Feb-01 10:55 by ccai Image text-base: 0x800100A0, data-base: 0x806DB770 ROM: System Bootstrap, Version 12.0(6r)T3, RELEASE SOFTWARE (fc1) ROM: 920 Software (UBR920-K1V4Y556I-M), Version 12.1(5)T4, RELEASE SOFTWARE (fc1) ubr924-ddd5 uptime is 2 hours, 1 minute System returned to ROM by reload at 12:45:25 - Fri Feb 23 2001 System restarted at 12:46:07 - Fri Feb 23 2001 System image file is "flash:ubr920-k1v4y556i-mz.121-5.T4" cisco uBR920 CM (MPC850) processor (revision 4.d) with 15872K/1024K bytes of memory. Processor board ID FAA0444Q14Z Bridging software. 1 Ethernet/IEEE 802.3 interface(s) 1 Cable Modem network interface(s) 3968K bytes of processor board System flash (Read/Write) 1536K bytes of processor board Boot flash (Read/Write) Configuration register is 0x2102 ubr924-b5db#**show ver** Cisco Internetwork Operating System Software IOS (tm) 920 Software (UBR920-K1V4Y556I-M), Version 12.1(5)T4, RELEASE SOFTWARE (fc1) TAC Support: http://www.cisco.com/pcgi-bin/ibld/view.pl?i=support Copyright (c) 1986-2001 by cisco Systems, Inc. Compiled Fri 02-Feb-01 10:55 by ccai Image text-base: 0x800100A0, data-base: 0x806DB770 ROM: System Bootstrap, Version 12.0(6r)T3, RELEASE SOFTWARE (fc1) ROM: 920 Software (UBR920-K1V4Y556I-M), Version 12.1(5)T4, RELEASE SOFTWARE (fc1) ubr924-b5db uptime is 1 hour, 53 minutes System returned to ROM by reload at 12:55:34 - Fri Feb 23 2001 System restarted at 12:56:15 - Fri Feb 23 2001 System image file is "flash:ubr920-k1v4y556i-mz.121-5.T4"

cisco uBR920 CM (MPC850) processor (revision 3.e) with 15872K/1024K bytes of memory.

```
Processor board ID FAA0422Q04F
Bridging software.
1 Ethernet/IEEE 802.3 interface(s)
1 Cable Modem network interface(s)
3968K bytes of processor board System flash (Read/Write)
1536K bytes of processor board Boot flash (Read/Write)
```

Configuration register is 0x2102

The tunnel will show up/up, as long as the following conditions exist:

- It is configured with valid IP addresses.
- There is a route in the routing table to the tunnel destination IP address, and not the IP address assigned to the far end of the tunnel.

This should be true regardless of whether you can ping the destination address. An incorrect static route or a default route pointing in the wrong direction will bring up the tunnel, however, the tunnel will not work.

The first step to verify that the tunnel works is to verify that the tunnel is up. Issue the **show ip interface brief** and **show interface tunnel 0** commands on both cable modems. Sample command output is shown below.

ubr924-ddd5# show ip interf	ace brief		
Interface	IP-Address	OK? Method Status	Protocol
Ethernet0	9.9.9.9	YES manual up	up
Tunnel0	192.168.20.1		up
cable-modem0	10.1.4.5	YES unset up	up
Cabie modemo	10.1.1.5		up
ubr924-ddd5# show interface	tunnel 0		
Tunnel0 is up, line protoc			
Hardware is Tunnel	OI ID UP		
Internet address is 192.	168 20 1/24		
MTU 1514 bytes, BW 9 Kbi			
reliability 255/255,			
Encapsulation TUNNEL, lo		(1044 1/255	
Keepalive set (10 sec)	opback not set		
Tunnel source 9.9.9.9 (H	thernet() dest	ination 11 11 11 11	
		isabled, sequencing disabled	
Checksumming of packets	· .	isabica, sequencing disabica	
Last input 00:15:25, out		it nut hand never	
Last clearing of "show i	-		
Queueing strategy: fifo			
Output queue 0/0, 2 drop	a: input quous ($\sqrt{75}$ 0 dropg	
5 minute input rate 0 bi			
5 minute output rate 0 k	· _		
146 packets input, 21			
Received 0 broadcasts			
		errun, 0 ignored, 0 abort	
172 packets output, 5	-		
0 output errors, 0 cc	-		
0 output buffer failu	ires, 0 output bu	iffers swapped out	
ubr924-b5db# show ip interf Interface	IP-Address	OK? Method Status	Protocol
Ethernet0	11.11.11.11	YES manual up	
Tunnel0	192.168.20.2	YES manual up	up
cable-modem0	192.108.20.2	-	up
cable-modemu	10.1.4.3	YES NVRAM up	up
ubr924-b5db# show interface	turnel 0		
Tunnel0 is up, line protoc			
Hardware is Tunnel	OT TO UP		
Internet address is 192.	169 20 2/24		
MTU 1514 bytes, BW 9 Kbi			
MIO ISIA DYCES, DW 9 KDI	.c, DDI 300000 US		

reliability 255/255, txload 1/255, rxload 1/255 Encapsulation TUNNEL, loopback not set Keepalive set (10 sec) Tunnel source 11.11.11.11 (Ethernet0), destination 9.9.9.9 Tunnel protocol/transport GRE/IP, key disabled, sequencing disabled Checksumming of packets disabled Last input 00:16:42, output 00:17:40, output hang never Last clearing of "show interface" counters never Queueing strategy: fifo Output queue 0/0, 5 drops; input queue 0/75, 0 drops 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec 118 packets input, 19144 bytes, 0 no buffer Received 0 broadcasts, 0 runts, 0 giants, 0 throttles 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort 164 packets output, 49624 bytes, 0 underruns 0 output errors, 0 collisions, 0 interface resets 0 output buffer failures, 0 output buffers swapped out

Verify that the tunnel works is to ping the tunnel destination IP address. This will verify IP connectivity only, not the actual functioning of the tunnel.

From ubr924-ddd5 we ping 11.11.11.11
ubr924-ddd5#ping 11.11.11.11
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 11.11.11.11, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 12/14/17 ms
ubr924-ddd5#

Ping from ubr924–b5db the destination address 9.9.9.9.

ubr924-b5db#ping 9.9.9.9
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 9.9.9.9, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 12/14/16 ms
ubr924-b5db#

To verify that the tunnel works, issue the **show ip route** *x.x.x.x* command, where *x.x.x.x* is the IP address assigned to the far end of the tunnel. In this case, it would be the loop–back address of the far router. If the only route shown is to the tunnel interface, a ping to that address will prove that the tunnel works.

If there is an IP addressing scheme that advertises routes to the tunnel segment back across the network, there would be more than one route to the far end of the tunnel interface. If that is the case, it is very difficult to verify that the tunnel is working. Typically in this situation, you do not want duplicate routes to the tunnel network. Steps should be taken to prevent the advertisement of the routes by a routing protocol across the network. If the tunnel is being used to transport traffic of a different protocol from IP, the same basic verification method applies.

```
From ubr924-ddd5 we get
ubr924-ddd5#show ip route 192.168.20.2
Routing entry for 192.168.20.0/24
Known via "connected", distance 0, metric 0 (connected, via interface)
Routing Descriptor Blocks:
 * directly connected, via Tunnel0
Route metric is 0, traffic share count is 1
```

```
From ubr924-b5db we get
```

To verify that PC1 can access PC2 and vice versa, perform extended pings on the cable modems, and also pings from the PCs.

Perform an extended ping on ubr924–b5db from its Ethernet interface (11.11.11.11) to the ubr924–ddd5's Ethernet interface (9.9.9.9).

```
ubr924-b5db#ping ip
Target IP address: 9.9.9.9
!--- ubr924-ddd5 Ethernet's IP address.
Repeat count [5]:
Datagram size [100]:
Timeout in seconds [2]:
Extended commands [n]: y
Source address or interface: 11.11.11.11
!--- ubr924-b5db Ethernet's IP address.
Type of service [0]:
Set DF bit in IP header? [no]:
Validate reply data? [no]:
Data pattern [0xABCD]:
Loose, Strict, Record, Timestamp, Verbose[none]:
Sweep range of sizes [n]:
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 9.9.9.9, timeout is 2 seconds:
11111
```

Success rate is 100 percent (5/5), round-trip min/avg/max = 12/16/28 ms

Perform the opposite to test the other side's connectivity.

ubr924-b5db#

```
ubr924-ddd5#ping ip
Target IP address: 11.11.11.11
!--- ubr924-b5db Ethernet's IP address.
Repeat count [5]:
Datagram size [100]:
Timeout in seconds [2]:
Extended commands [n]: y
Source address or interface: 9.9.9.9
!--- ubr924-ddd5 Ethernet's IP address.
Type of service [0]:
Set DF bit in IP header? [no]:
Validate reply data? [no]:
Data pattern [0xABCD]:
Loose, Strict, Record, Timestamp, Verbose[none]:
Sweep range of sizes [n]:
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 11.11.11.11, timeout is 2 seconds:
11111
Success rate is 100 percent (5/5), round-trip min/avg/max = 12/14/16 ms
ubr924-ddd5#
```

The final test is to ping from PC1 to PC2, and PC2 to PC1.

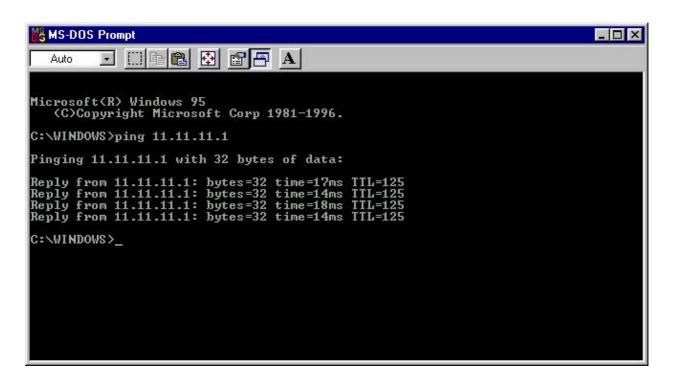
PC1 has an IP address of 9.9.9.1.

	3Com 3C90x E	Ethernet Adapter
Adapter Address	00-C0-4F-9	97-61-C5
IP Address	9.9.9	9.1
Subnet Mask	255.255	.255.0
Default Gateway	9.9.9	9.9

PC2 has and IP address of 11.11.11.1.

Adapter Address 00-A0-24-3C-EF-F5 IP Address 11.11.11.1 Subnet Mask 255.255.255.0 Default Gateway 11.11.11.11		ELNK3 E	thernet Adapter
Subnet Mask 255.255.0	Adapter Address	00-A0	-24-3C-EF-F5
200.200.200.0	IP Address		
Default Gateway 11.11.11.11	Subnet Mask		
	Default Gateway	11	.11.11.11
	Release All Re	enew All	More Info >>

Ping from PC1 to PC2.



Ping from PC2 to PC1.

🕌 MS-DOS Prompt 📃 🖪 🗙
Tr 8 x 13 . □ = 💼 🔂 🔂 🗗 🗛
Microsoft(R) Windows 98 (C)Copyright Microsoft Corp 1981–1998.
C:\WINDOWS>ping 9.9.9.1
Pinging 9.9.9.1 with 32 bytes of data:
Reply from 9.9.9.1: bytes=32 time=16ms TTL=29 Reply from 9.9.9.1: bytes=32 time=15ms TTL=29 Reply from 9.9.9.1: bytes=32 time=13ms TTL=29 Reply from 9.9.9.1: bytes=32 time=12ms TTL=29
Ping statistics for 9.9.9.1: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 12ms, Maximum = 16ms, Average = 14ms
C:\WINDOWS>_

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.

Related Information

- Troubleshooting uBR Cable Modems Not Coming Online
- Configuring CET Encryption with a GRE Tunnel

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