



الغلادة أكاديمي



الغلادة القابضة



سيسكو في 6 ساعات



الكورس

يختصر أكثر من مائة ساعة
يركز على احتياجات المهندسين
في سوق العمل

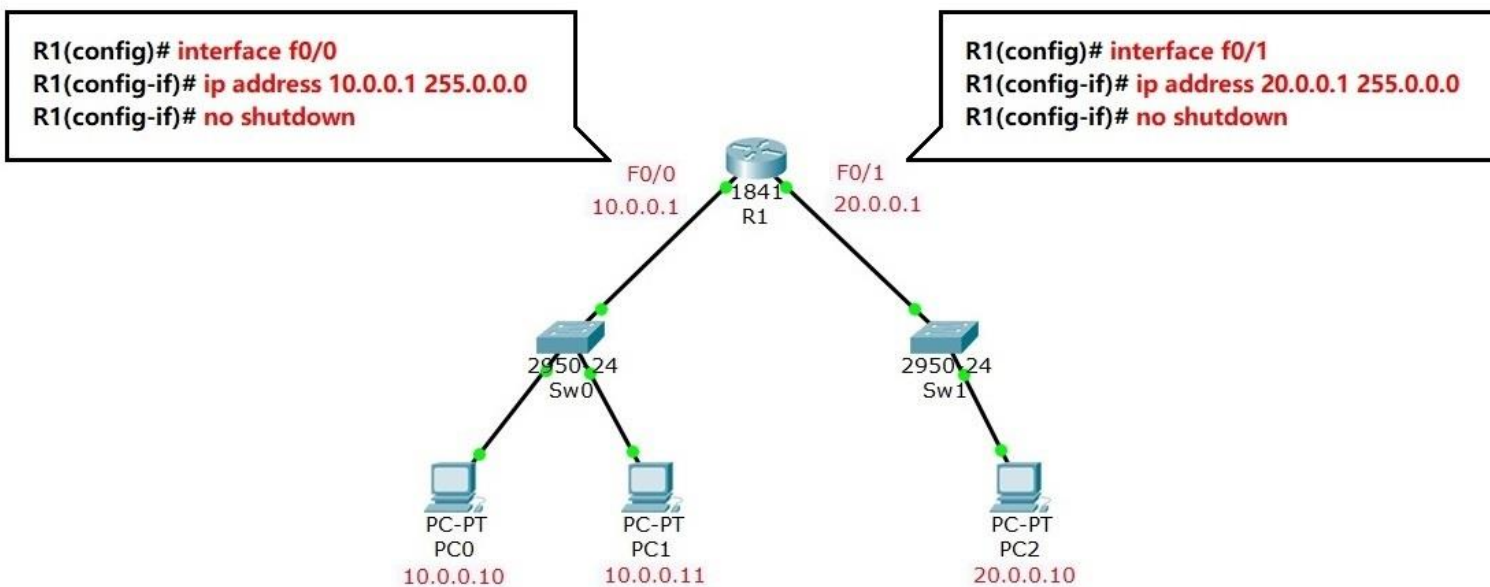
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Second Edition
حقوق النشر والترجمة محفوظة



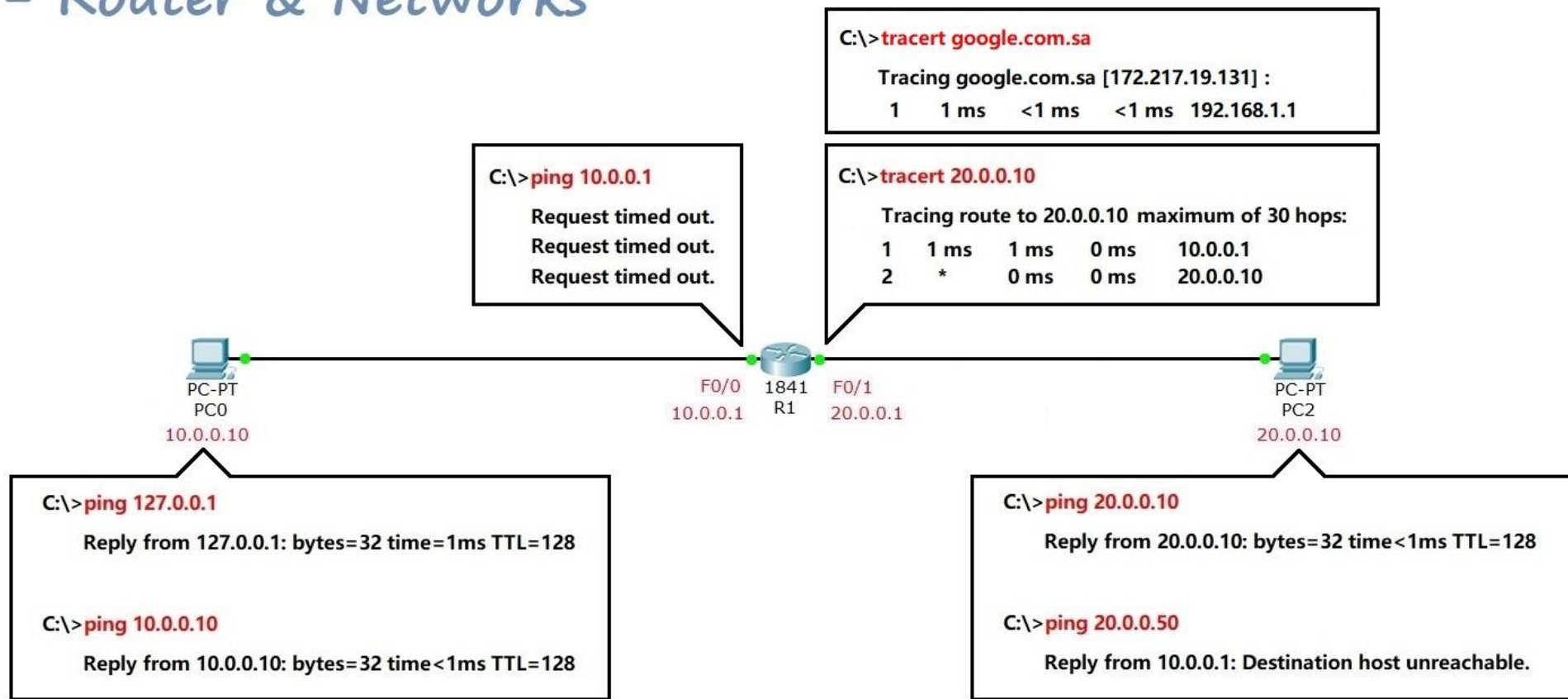
- Router & Networks

What Does a Router Do?

- Router & Networks



- Router & Networks



C:\>ping 10.0.0.1
Request timed out.
Request timed out.
Request timed out.

C:\>tracert google.com.sa
Tracing google.com.sa [172.217.19.131] :
1 1 ms <1 ms <1 ms 192.168.1.1

C:\>tracert 20.0.0.10
Tracing route to 20.0.0.10 maximum of 30 hops:
1 1 ms 1 ms 0 ms 10.0.0.1
2 * 0 ms 0 ms 20.0.0.10

C:\>ping 127.0.0.1
Reply from 127.0.0.1: bytes=32 time=1ms TTL=128

C:\>ping 10.0.0.10
Reply from 10.0.0.10: bytes=32 time<1ms TTL=128

C:\>ping 20.0.0.10
Reply from 20.0.0.10: bytes=32 time<1ms TTL=128

C:\>ping 20.0.0.50
Reply from 10.0.0.1: Destination host unreachable.

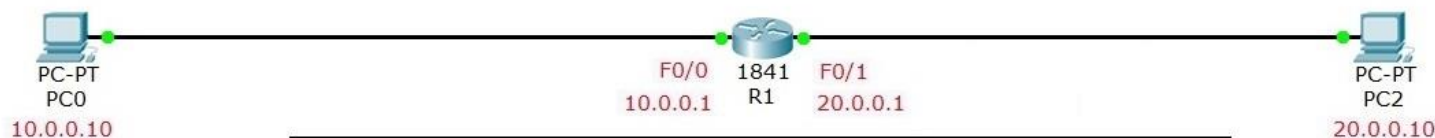
- Router & Networks

R1# **show ip route**

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

Gateway of last resort is not set

C 10.0.0.0/8 is directly connected, FastEthernet 0/0
C 20.0.0.0/8 is directly connected, FastEthernet 0/1



R1# **show ip interface brief**

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/0	10.0.0.1	YES	manual	up	up
FastEthernet0/1	20.0.0.1	YES	manual	up	down
Serial 0/1	20.0.0.1	YES	DHCP	down	down
Vlan1	unassigned	YES	unset	admin down	down

Interface is working

Protocol issue (IP Add, PPP, Clock)

Cable issue (Note: Ethernet insensitive)

Interface is "shutdown"