static routes:
ip route 201.0.0.0 255.255.255.0 200.0.0.2

since the are STUB:
ip route 0.0.0.0 0.0.0.0 200.0.0.2

rip:
router rip
 version 2
 network 200.0.0.0
 network 10.0.0.0
 network 172.16.0.0
eigrp:
router eigrp 1001
 no auto-summary
 network 200.0.0.0
 network 10.0.0.0
 network 172.16.0.0
ospf:
router ospf 1
 network 200.0.0.0 0.0.0.255 area 0
 network 10.0.0.0 0.255.255.255 area 0
 network 172.16.0.0 0.0.255.255 area 0

BGP:
BGP:
router bgp 1001
 neighbor 200.0.0.2 remote-as 2002
 network 200.0.0.0 mask 255.255.255.0
 network 10.0.0.0 mask 255.0.0.0
 network 172.16.0.0 mask 255.255.0.0
****

generic script to be pasted to everybody!

paste to all routers:
enable
config t
 hostname fs
 no ip domain-lookup
 no logging console
 alias exec bp show ip int brief | ex una
 alias exec sr show ip route
 alias exec sp show ip protocols
 line cons 0
  no login
  exec-timeout 0 0
 line vty 0 14
  no login
  exec-timeout 0 0
end

task0: SUPER SARAP BUHAY COMMANDS: INGAT(3 HOURS!)
config t
 alias exec bp show ip int brief | ex una
 alias exec sr show ip route
 alias exec sp show ip protocols
 alias exec d1 disco 1
 ip host r1 200.0.0.1
 ip host pa 192.168.69.11
 ip host ws 201.0.0.21
 ip host fs 201.0.0.22
 ip host px 203.0.0.31
 ip host r3 202.0.0.2
:type errors = lunch = scott burger 1, x 3!=9

task1: CORRECTLY SETTING THE IP ADDRESS:

r1:
config t
int se 1/0
  ip add 200.0.0.1 255.255.255.0
  no shut
int fa 0/0
  ip add 192.168.69.1 255.255.255.0
  no shut
  exit
router eigrp 100
  no auto-summary
  network 200.0.0.0
  network 192.168.69.0
end
****
R2:
config t
 int se 1/1
  no ip add
 int se 1/0
  ip add 200.0.0.2 255.255.255.0
  no shut
 int fa 0/1
  ip add 202.0.0.1 255.255.255.0
  no shut
 int fa 0/0
  ip add 201.0.0.1 255.255.255.0
  no shut
  exit
 router eigrp 100
  network 200.0.0.0
  network 202.0.0.0
  network 201.0.0.0
end
**********R3****************
config t
int se 1/0

```
   no ip add
int fa 0/1
  ip add 202.0.0.2 255.255.255.0
  no shut
int fa 0/0
  ip add 203.0.0.1 255.255.255.0
  no shut
  exit
router eigrp 100
 network 202.0.0.0
 network 203.0.0.0
end

TASK2: giving ip address to clients:

pa:
config t
 int fa 0/0
  ip add 192.168.69.11 255.255.255.0
  no shut
  exit
 ip route 0.0.0.0 0.0.0.0 192.168.69.1
WS:
config t
 int fa 0/0
  ip add 201.0.0.21 255.255.255.0
  no shut
  exit
 ip route 0.0.0.0 0.0.0.0 201.0.0.1
FS:
config t
 int fa 0/0
  ip add 201.0.0.22 255.255.255.0
  no shut
  exit
 ip route 0.0.0.0 0.0.0.0 201.0.0.1
PX:
config t
 int fa 0/0
  ip add 203.0.0.31 255.255.255.0
  no shut
  exit
 ip route 0.0.0.0 0.0.0.0 203.0.0.1


*********************************************
*********************************************

SITE1-R1:
CONFIG T
crypto isakmp policy 1
 authentication pre-share
crypto isakmp key cisco address 200.0.0.2
```

```
!
crypto ipsec transform-set strong esp-3des esp-sha-hmac
!
crypto map vpn 16 ipsec-isakmp
 set peer 200.0.0.2
 set transform-set strong
 match address 101
!
interface Tunnel1
 description vpn-GRE TUNNEL TO r2
 ip address 172.21.0.1 255.255.0.0
 tunnel source 200.0.0.1
 tunnel destination 200.0.0.2
!
interface serial 1/0
 ip address 200.0.0.1 255.255.255.0
 ip virtual-reassembly
 crypto map vpn
 no shut
!
interface fastE 0/0
 ip address 192.168.69.1 255.255.255.0
 no shut
!
router eigrp 100
 network 172.21.0.0
 network 192.168.69.0
 no auto-summary
!
ip forward-protocol nd
ip route 0.0.0.0 0.0.0.0 se 1/0
!
access-list 101 permit gre host 200.0.0.1 host 200.0.0.2
!


**********************************************
**********************************************

SITE1-R2:
CONFIG T
crypto isakmp policy 1
 authentication pre-share
crypto isakmp key cisco address 200.0.0.1
!
crypto ipsec transform-set strong esp-3des esp-sha-hmac
!
crypto map vpn 16 ipsec-isakmp
 set peer 200.0.0.1
 set transform-set strong
 match address 102
!
interface Tunnel1
```

```
 description vpn-GRE TUNNEL TO r1
 ip address 172.21.0.2 255.255.0.0
 tunnel source 200.0.0.2
 tunnel destination 200.0.0.1
!
interface serial 1/0
 ip address 200.0.0.2 255.255.255.0
 ip virtual-reassembly
 crypto map vpn
 no shut
!
interface fastE 0/0
 ip address 192.168.88.1 255.255.255.0
 no shut
!
router eigrp 100
 network 172.21.0.0
 network 192.168.88.0
 no auto-summary
!
ip forward-protocol nd
ip route 0.0.0.0 0.0.0.0 se 1/0
!
access-list 102 permit gre host 200.0.0.2 host 200.0.0.1
!


**********************************************
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pa:
config t
 int fa 0/0
  ip add 192.168.69.11 255.255.255.0
  no shut
  exit
 ip route 0.0.0.0 0.0.0.0 192.168.69.1


ws:
config t
 int fa 0/0
  ip add 192.168.88.11 255.255.255.0
  no shut
  exit
 ip route 0.0.0.0 0.0.0.0 192.168.88.1


*******************************************
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*******************************************


paste to all routers:
enable
```

```
config t
 no ip domain-lookup
 no logging console
 alias exec bp show ip int brief | ex una
 alias exec sr show ip route
 alias exec sp show ip protocols
 alias exec sn sh ip nat trans
 line cons 0
  no login
  exec-timeout 0 0
 line vty 0 14
  no login
  exec-timeout 0 0
end

t1:
config t
 int fa 0/0
  no shut
  ip add dhcp
end

*********************

R1:
config t
 int fa 0/0
  no shut
  ip add 192.168.1.11 255.255.255.0
 int fa 0/1
  no shut
  ip add 192.168.11.1 255.255.255.0

p1:
config t
 int fa 0/0
  no shut
  ip add 192.168.11.10 255.255.255.0
  ip route 0.0.0.0 0.0.0.0 192.168.11.1

**************
**************

R2:
config t
 int fa 0/0
  no shut
  ip add 192.168.1.12 255.255.255.0
 int fa 0/1
  no shut
  ip add 192.168.12.1 255.255.255.0

p2:
```

```
config t
 int fa 0/0
  no shut
  ip add 192.168.12.10 255.255.255.0
  ip route 0.0.0.0 0.0.0.0 192.168.12.1
```

****
****

R3:
```
config t
 int fa 0/0
  no shut
  ip add 192.168.1.13 255.255.255.0
 int fa 0/1
  no shut
  ip add 192.168.13.1 255.255.255.0
```

p3:
```
config t
 int fa 0/0
  no shut
  ip add 192.168.13.10 255.255.255.0
  ip route 0.0.0.0 0.0.0.0 192.168.13.1
```

****
****

R4:
```
config t
 int fa 0/0
  no shut
  ip add 192.168.1.14 255.255.255.0
 int fa 0/1
  no shut
  ip add 192.168.14.1 255.255.255.0
```

p4:
```
config t
 int fa 0/0
  no shut
  ip add 192.168.14.10 255.255.255.0
  ip route 0.0.0.0 0.0.0.0 192.168.14.1
```

****

```
config t
 ip host p1 192.168.11.10
 ip host p2 192.168.12.10
 ip host p3 192.168.13.10
 ip host p4 192.168.14.10
 ip host 69 69.0.0.1
```

****
****

```
r1:  internet share:
config t
 int fa 0/0
  ip nat outside
 int fa 0/1
  ip nat inside
 !
 no ip access-list extended NAT
 ip access-list extended NAT
  deny ip 192.168.11.0 0.0.0.255  192.168.12.0 0.0.0.255
  deny ip 192.168.11.0 0.0.0.255  192.168.13.0 0.0.0.255
  deny ip 192.168.11.0 0.0.0.255  192.168.14.0 0.0.0.255
  deny eigrp any any
  permit ip any any
  exit
 route-map POLNAT 10
  match ip address NAT
  exit
 ip nat inside source route-map POLNAT interface FastEthernet0/0 overload
 Router eigrp 100
  network 192.168.11.0
  network 192.168.1.0
```

****

```
R2:
config t
 int fa 0/0
  ip nat outside
 int fa 0/1
  ip nat inside
 !
 no ip access-list extended NAT
 ip access-list extended NAT
  deny ip 192.168.12.0 0.0.0.255  192.168.11.0 0.0.0.255
  deny ip 192.168.12.0 0.0.0.255  192.168.13.0 0.0.0.255
  deny ip 192.168.12.0 0.0.0.255  192.168.14.0 0.0.0.255
  deny eigrp any any
  permit ip any any
  exit
 route-map POLNAT 10
  match ip address NAT
  exit
 ip nat inside source route-map POLNAT interface FastEthernet0/0 overload
 Router eigrp 100
  network 192.168.12.0
  network 192.168.1.0
```

****
****
****

STATIC ROUTES TO SIMULATE INTNERNET:

internet:
config t
 ip route 192.168.11.0 255.255.255.0 192.168.1.11
 ip route 192.168.12.0 255.255.255.0 192.168.1.12
 ip route 192.168.13.0 255.255.255.0 192.168.1.13
 ip route 192.168.14.0 255.255.255.0 192.168.1.14

all
config t
 ip route 0.0.0.0 0.0.0.0 192.168.1.1

****
****

****

R3:
config t
 int fa 0/0
  ip nat outside
 int fa 0/1
  ip nat inside
 !
 no ip access-list extended NAT
 ip access-list extended NAT
  deny ip 192.168.13.0 0.0.0.255 192.168.11.0 0.0.0.255
  deny ip 192.168.13.0 0.0.0.255 192.168.12.0 0.0.0.255
  deny ip 192.168.13.0 0.0.0.255 192.168.14.0 0.0.0.255
  deny eigrp any any
  permit ip any any
  exit
 route-map POLNAT 10
  match ip address NAT
  exit
 ip nat inside source route-map POLNAT interface FastEthernet0/0 overload
 Router eigrp 100
  network 192.168.13.0
  network 192.168.1.0

****
****
****

R4:

```
config t
 int fa 0/0
  ip nat outside
 int fa 0/1
  ip nat inside
 !
 no ip access-list extended NAT
 ip access-list extended NAT
  deny ip 192.168.14.0 0.0.0.255  192.168.11.0 0.0.0.255
  deny ip 192.168.14.0 0.0.0.255  192.168.12.0 0.0.0.255
  deny ip 192.168.14.0 0.0.0.255  192.168.13.0 0.0.0.255
  deny eigrp any any
  permit ip any any
  exit
 route-map POLNAT 10
  match ip address NAT
  exit
 ip nat inside source route-map POLNAT interface FastEthernet0/0 overload
 Router eigrp 100
  network 192.168.14.0
  network 192.168.1.0



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SITE1-R1:HQ!
CONFIG T
crypto isakmp policy 1
 authentication pre-share
crypto isakmp key cisco address 192.168.1.12
crypto isakmp key cisco address 192.168.1.13
crypto isakmp key cisco address 192.168.1.14
!
crypto ipsec transform-set strong esp-3des esp-sha-hmac
!
crypto map vpn 16 ipsec-isakmp
 set peer 200.0.0.2
 set transform-set strong
 match address 101
!
interface Tunnel1
 description vpn-GRE TUNNEL TO r2
 ip address 172.21.0.1 255.255.0.0
 tunnel source 200.0.0.1
 tunnel destination 200.0.0.2
!
interface serial 1/0
 ip address 200.0.0.1 255.255.255.0
 ip virtual-reassembly
 crypto map vpn
```

```
 no shut
!
interface fastE 0/0
 ip address 192.168.69.1 255.255.255.0
 no shut
!
router eigrp 100
 network 172.21.0.0
 network 192.168.69.0
 no auto-summary
!
ip forward-protocol nd
ip route 0.0.0.0 0.0.0.0 se 1/0
!
access-list 101 permit gre host 200.0.0.1 host 200.0.0.2
```