IP Configuration

R-NCAMPUS

Router>enable Router# Router#configure terminal Router(config)#

Router(config)#hostname R-NCAMPUS R-NCAMPUS(config)#

R-NCAMPUS(config)#interface FastEthernet0/0
R-NCAMPUS(config-if)#ip address 192.128.0.1 255.255.248.0
R-NCAMPUS(config-if)#no shutdown

R-NCAMPUS(config-if)#interface serial 0/1/0
R-NCAMPUS(config-if)#ip address 192.128.14.129 255.255.255.252
R-NCAMPUS(config-if)#no shutdown
R-NCAMPUS(config-if)#

R-NCAMPUS(config-if)#end

R-NCAMPUS#copy run start

R-TARC

Router>enable
Router#
Router#configure terminal
Router(config)#

Router(config)#hostname R-TARC R-TARC(config)#

R-TARC(config)#interface FastEthernet0/0 R-TARC(config-if)#ip address 192.128.8.1 255.255.254.0 R-TARC(config-if)#no shutdown

R-TARC(config-if)#interface serial 0/0/0 R-TARC(config-if)#ip address 192.128.14.137 255.255.255.252

R-TARC(config-if)#no shutdown R-TARC(config-if)#

R-TARC(config-if)#interface serial 0/1/0

R-TARC(config-if)#ip address 192.128.14.130 255.255.255.252

R-TARC(config-if)#no shutdown

R-TARC(config-if)#

R-TARC(config-if)#interface serial 0/1/1

R-TARC(config-if)#ip address 192.128.14.133 255.255.255.252

R-TARC(config-if)#no shutdown

R-TARC(config-if)#

R-TARC(config-if)#end

R-TARC#copy run start

RBraculearningcenter

Router>enable
Router#
Router#configure terminal
Router(config)#

Router(config)#hostname RBraculearningcenter RBraculearningcenter(config)#

RBraculearningcenter(config)#interface FastEthernet0/0
RBraculearningcenter(config-if)#ip address 192.128.14.1 255.255.255.128
RBraculearningcenter(config-if)#no shutdown

RBraculearningcenter(config-if)#interface serial 0/1/1
RBraculearningcenter(config-if)#ip address 192.128.14.134 255.255.255.252
RBraculearningcenter(config-if)#no shutdown
RBraculearningcenter(config-if)#

RBraculearningcenter(config-if)#end

RBraculearningcenter#copy run start

R-UB8

Router>enable
Router#
Router#configure terminal
Router(config)#

Router(config)#hostname R-UB8 R-UB8(config)#

R-UB8(config)#interface FastEthernet0/0
R-UB8(config-if)#ip address 192.128.13.1 255.255.255.0
R-UB8(config-if)#no shutdown

R-UB8(config-if)#interface serial 0/0/0 R-UB8(config-if)#ip address 192.128.14.138 255.255.255.252 R-UB8(config-if)#no shutdown R-UB8(config-if)#

R-UB8(config-if)#interface serial 0/1/0
R-UB8(config-if)#ip address 192.128.14.142 255.255.255.252
R-UB8(config-if)#no shutdown
R-UB8(config-if)#

R-UB8(config-if)#interface serial 0/1/1
R-UB8(config-if)#ip address 192.128.14.146 255.255.255.252
R-UB8(config-if)#no shutdown
R-UB8(config-if)#

R-UB8(config-if)#end

R-UB8#copy run start

R-UB2

Router>enable
Router#
Router#configure terminal
Router(config)#

Router(config)#hostname R-UB2 R-UB2(config)#

R-UB2(config)#interface FastEthernet0/0 R-UB2(config-if)#ip address 192.128.10.1 255.255.254.0 R-UB2(config-if)#no shutdown

R-UB2(config-if)#interface serial 0/1/0
R-UB2(config-if)#ip address 192.128.14.141 255.255.255.252
R-UB2(config-if)#no shutdown
R-UB2(config-if)#

R-UB2(config-if)#interface serial 0/1/1
R-UB2(config-if)#ip address 192.128.14.149 255.255.255.252
R-UB2(config-if)#no shutdown
R-UB2(config-if)#

R-UB2(config-if)#end

R-UB2#copy run start

R-UB10

Router>enable
Router#
Router#configure terminal
Router(config)#

Router(config)#hostname R-UB10 R-UB10(config)#

R-UB10(config)#interface FastEthernet0/0
R-UB10(config-if)#ip address 192.128.12.1 255.255.255.0
R-UB10(config-if)#no shutdown

R-UB10(config-if)#interface serial 0/1/0
R-UB10(config-if)#ip address 192.128.14.150 255.255.255.252
R-UB10(config-if)#no shutdown
R-UB10(config-if)#

R-UB10(config-if)#interface serial 0/1/1 R-UB10(config-if)#ip address 192.128.14.145 255.255.255.252 R-UB10(config-if)#no shutdown R-UB10(config-if)#

R-UB10(config-if)#end

R-UB10#copy run start

Static Routing:

R-UB8

R-UB8>enable

R-UB8#conf t

Enter configuration commands, one per line. End with CNTL/Z.

ip route 192.128.10.0 255.255.254.0 192.128.14.141

ip route 192.128.0.0 255.255.248.0 192.128.14.137

ip route 192.128.8.0 255.255.254.0 192.128.14.137

ip route 192.128.14.0 255.255.255.128 192.128.14.137

ip route 192.128.12.0 255.255.255.0 192.128.14.145

Dynamic Routing:

R- UB8

R-UB8>enable

R-UB8#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R-UB8(config)#router rip

R-UB8(config-router)#version 2

R-UB8(config-router)#no auto-summary

R-UB8(config-router)#network 192.128.14.144

R-UB8(config-router)#network 192.128.14.136

R-UB8(config-router)#redistribute static

R-UB8(config-router)#end

R-UB8#

R- UB10

R-UB10(config)#ip route 192.128.13.0 255.255.255.0 192.128.14.146

R-UB10>enable

R-UB10#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R-UB10(config)#router rip

R-UB10(config-router)#version 2

R-UB10(config-router)#no auto-summary

R-UB10(config-router)#network 192.128.14.144

R-UB10(config-router)#network 192.128.12.0

R-UB10(config-router)#network 192.128.14.148

R-UB10(config-router)#end

R-UB10#

R-UB2

R-UB2(config)#ip route 192.128.13.0 255.255.255.0 192.128.14.142

R-UB2>enable

R-UB2#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R-UB2(config)#router rip

R-UB2(config-router)#version 2

R-UB2(config-router)#no auto-summary

R-UB2(config-router)#network 192.128.14.140

R-UB2(config-router)#network 192.128.10.0

R-UB2(config-router)#network 192.128.14.148

R-UB2(config-router)#end

R-UB2#

R-NCAMPUS

ip route 192.128.13.0 255.255.255.0 192.128.14.130

R-NCAMPUS(config)#router rip

R-NCAMPUS(config-router)#exit

R-NCAMPUS(config)#router rip

R-NCAMPUS(config-router)#version 2

R-NCAMPUS(config-router)#no auto-summary

R-NCAMPUS(config-router)#network 192.128.0.0

R-NCAMPUS(config-router)#network 192.128.14.128

R-NCAMPUS(config-router)#end

R-NCAMPUS#

RBraculearningcenter:

RBraculearningcenter>enable

RBraculearningcenter#conf t

Enter configuration commands, one per line. End with CNTL/Z.

RBraculearningcenter(config)#router rip

RBraculearningcenter(config-router)#version 2

RBraculearningcenter(config-router)#no auto-summary

RBraculearningcenter(config-router)#network 192.128.14.0

RBraculearningcenter(config-router)#network 192.128.14.132

RBraculearningcenter(config-router)#end

RBraculearningcenter#

R-TARC>

enable

R-TARC#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R-TARC(config)#ip route 192.128.13.0 255.255.255.0 192.128.14.138

R-TARC(config)#router rip

R-TARC(config-router)#version 2

R-TARC(config-router)#no auto-summary

R-TARC(config-router)#network 192.128.14.136

R-TARC(config-router)#network 192.128.14.128

R-TARC(config-router)#network 192.128.14.132

R-TARC(config-router)#network 192.128.8.0

R-TARC(config-router)#end

Floating Point:

Primary Route

<u>R-UB8</u>

R-UB8#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R-UB8(config)#ip route 192.128.10.0 255.255.254.0 Serial0/1/0

R-UB8(config)#exit

R-UB8#

%SYS-5-CONFIG I: Configured from console by console

R-UB8#show ip route static

S 192.128.0.0/21 [1/0] via 192.128.14.137

S 192.128.8.0/23 [1/0] via 192.128.14.137

S 192.128.10.0/23 [1/0] via 192.128.14.141

S 192.128.12.0/24 [1/0] via 192.128.14.145

192.128.14.0/24 is variably subnetted, 7 subnets, 2 masks

S 192.128.14.0/25 [1/0] via 192.128.14.137

S* 0.0.0.0/0 is directly connected, Serial0/1/0

Backup Route:

R-UB8#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R-UB8(config)#ip route 192.128.10.0 255.255.254.0 Serial0/1/1 5

R-UB8(config)#exit

R-UB8#

%SYS-5-CONFIG_I: Configured from console by console

R-UB8#show ip route

R-UB8#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

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

S 192.128.0.0/21 [1/0] via 192.128.14.137

S 192.128.8.0/23 [1/0] via 192.128.14.137

S 192.128.10.0/23 [1/0] via 192.128.14.141

is directly connected, Serial0/1/0

S 192.128.12.0/24 [1/0] via 192.128.14.145

C 192.128.13.0/24 is directly connected, FastEthernet0/0

192.128.14.0/24 is variably subnetted, 7 subnets, 2 masks

S 192.128.14.0/25 [1/0] via 192.128.14.137

R 192.128.14.128/30 [120/1] via 192.128.14.137, 00:00:01, Serial0/0/0

R 192.128.14.132/30 [120/1] via 192.128.14.137, 00:00:01, Serial0/0/0

C 192.128.14.136/30 is directly connected, Serial0/0/0

C 192.128.14.140/30 is directly connected, Serial0/1/0

C 192.128.14.144/30 is directly connected, Serial0/1/1

R 192.128.14.148/30 [120/1] via 192.128.14.141, 00:00:09, Serial0/1/0

[120/1] via 192.128.14.145, 00:00:29, Serial0/1/1

Shutdown:

R-UB8>enable

R-UB8#conf t

Enter configuration commands, one per line. End with CNTL/Z.

R-UB8(config)#interface Serial0/1/0 R-UB8(config-if)#shut R-UB8# R-UB8#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 N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area * - candidate default, U - per-user static route, o - ODR P - periodic downloaded static route

Gateway of last resort is not set

S 192.128.0.0/21 [1/0] via 192.128.14.137

S 192.128.8.0/23 [1/0] via 192.128.14.137

S 192.128.10.0/23 is directly connected, Serial0/1/1

S 192.128.12.0/24 [1/0] via 192.128.14.145

C 192.128.13.0/24 is directly connected, FastEthernet0/0

192.128.14.0/24 is variably subnetted, 6 subnets, 2 masks

S 192.128.14.0/25 [1/0] via 192.128.14.137

R 192.128.14.128/30 [120/1] via 192.128.14.137, 00:00:14, Serial0/0/0

R 192.128.14.132/30 [120/1] via 192.128.14.137, 00:00:14, Serial0/0/0

C 192.128.14.136/30 is directly connected, Serial0/0/0

C 192.128.14.144/30 is directly connected, Serial0/1/1

R 192.128.14.148/30 [120/1] via 192.128.14.145, 00:00:06, Serial0/1/1