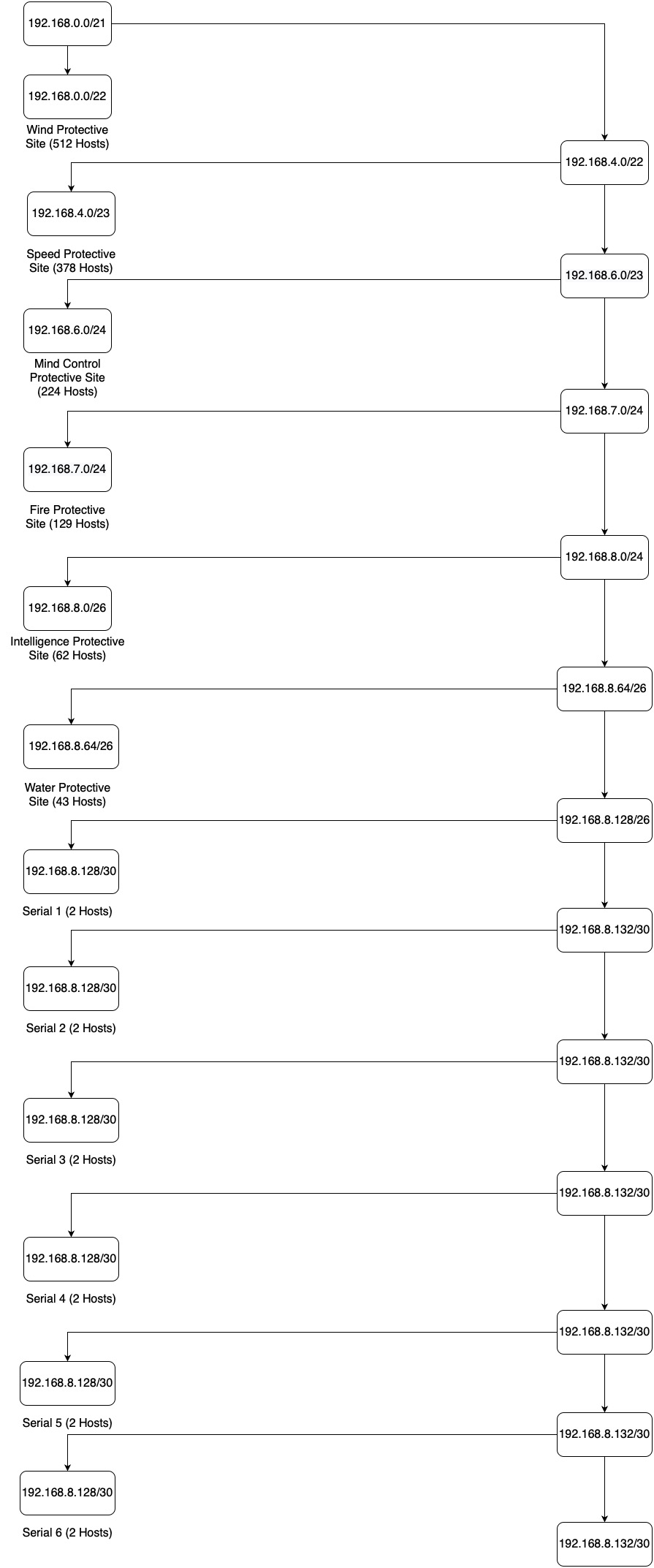
|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Hosts Needed | Hosts Available | Network Address | Slash | Mask | Usable Range | Broadcast |
| Wind | 512 | 1022 | 192.168.0.0 | /22 | 255.255.252.0 | 192.168.0.1 - 192.168.3.254 | 192.168.3.255 |
| Speed | 378 | 510 | 192.168.4.0 | /23 | 255.255.254.0 | 192.168.4.1 - 192.168.5.254 | 192.168.5.255 |
| Mind | 224 | 254 | 192.168.6.0 | /24 | 255.255.255.0 | 192.168.6.1 - 192.168.6.254 | 192.168.6.255 |
| Fire | 129 | 254 | 192.168.7.0 | /24 | 255.255.255.0 | 192.168.7.1 - 192.168.7.254 | 192.168.7.255 |
| Intelligence | 62 | 62 | 192.168.8.0 | /26 | 255.255.255.192 | 192.168.8.1 - 192.168.8.62 | 192.168.8.63 |
| Water | 43 | 62 | 192.168.8.64 | /26 | 255.255.255.192 | 192.168.8.65 - 192.168.8.126 | 192.168.8.127 |
| Serial 1 | 2 | 2 | 192.168.8.128 | /30 | 255.255.255.252 | 192.168.8.129 - 192.168.8.130 | 192.168.8.131 |
| Serial 2 | 2 | 2 | 192.168.8.132 | /30 | 255.255.255.252 | 192.168.8.133 - 192.168.8.134 | 192.168.8.135 |
| Serial 3 | 2 | 2 | 192.168.8.136 | /30 | 255.255.255.252 | 192.168.8.137 - 192.168.8.138 | 192.168.8.139 |
| Serial 4 | 2 | 2 | 192.168.8.140 | /30 | 255.255.255.252 | 192.168.8.141 - 192.168.8.142 | 192.168.8.143 |
| Serial 5 | 2 | 2 | 192.168.8.144 | /30 | 255.255.255.252 | 192.168.8.145 - 192.168.8.146 | 192.168.8.147 |
| Serial 6 | 2 | 2 | 192.168.8.148 | /30 | 255.255.255.252 | 192.168.8.149 - 192.168.8.150 | 192.168.8.151 |

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Ports | IP Address | Subnet Mask |
| Wind Protective Site | G0/0  S0/0/0  S0/0/1  S0/1/0 | 192.168.0.1  192.168.8.142  192.168.8.145  192.168.8.149 | 255.255.252.0  255.255.255.252  255.255.255.252  255.255.255.252 |
| Speed Protective Site | G0/0  S0/0/0 | 192.168.4.1  192.168.8.150 | 255.255.254.0  255.255.255.252 |
| Mind Control Protective Site | G0/0  S0/0/0  S0/0/1 | 192.168.6.1  192.168.8.134  192.168.8.137 | 255.255.255.0  255.255.255.252 |
| Fire Protective Site | G0/0  S0/0/0  S0/0/1  S0/1/0 | 192.168.7.1  192.168.8.129  192.168.8.141  192.168.8.138 | 255.255.255.0  255.255.255.252 |
| Intelligence Protective Site | G0/0  S0/0/0 | 192.168.8.1  192.168.8.146 | 255.255.255.192  255.255.255.252 |
| Water Protective Site | G0/0  S0/0/0  S0/0/1 | 192.168.8.65  192.168.8.130  192.168.8.133 | 255.255.255.192  255.255.255.252 |

**VLSM Tree:**

**Commands:**

**Fire Protective Site:**

Router>en

Router#erase startup-config

Erasing the nvram filesystem will remove all configuration files! Continue? [confirm]

[OK]

Erase of nvram: complete

%SYS-7-NV\_BLOCK\_INIT: Initialized the geometry of nvram

Router#

Router con0 is now available

Press RETURN to get started.

Router>en

Router#reload

Proceed with reload? [confirm]

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:

% Please answer 'yes' or 'no'.

Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>en

Router#conf t

Router#conf terminal

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

Router(config)#hostname Fire

Fire(config)#no ip domain-lookup

Fire(config)#enable secret class

Fire(config)#line console 0

Fire(config-line)#password cisco

Fire(config-line)#login

Fire(config-line)#exit

Fire(config)#line vty 0 4

Fire(config-line)#password cisco

Fire(config-line)#login

Fire(config-line)#exit

Fire(config)#

Fire(config)#interface Gig 0/0

Fire(config-if)#ip address 192.168.7.1 255.255.255.0

Fire(config-if)#no shutdown

Fire(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Fire(config-if)#exit

Fire(config)#interfa

Fire(config)#interface serial 0/0/0

Fire(config-if)#ip address 192.168.8.129 255.255.255.192

Fire(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down

Fire(config-if)#

Fire(config-if)#interface serial 0/0/0

Fire(config-if)#clock rate 64000

Fire(config-if)#no shutdown

Fire(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

User Access Verification

Password:

Fire>en

Password:

Fire#conf t

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

Fire(config)#interface s0/0/0

Fire(config-if)#ip address 192.168.8.129 255.255.255.252

Fire(config-if)#no shutdown

Fire(config-if)#eiexit

Fire(cip address 192.168.8.129 255.255.255.252ip address 192.168.8.138 255.255.255.252

Fire(config-if)#no shut

Fire(config-if)#exit

Fire(config)#ip route 192.168.8.64 255.255.255.192 192.168.8.130

Fire(config)#no shut

^

% Invalid input detected at '^' marker.

Fire(config)#Fire(config)#Fire(config)#interface S0/0/0

Fire(config-if)#exit

Fire(config)#no ip route 192.168.8.64 255.255.255.192 192.168.8.130

Fire(config)#interface S0/0/0

Fire(config-if)#ip route 192.168.8.64 255.255.255.192 192.168.8.130

Fire(config)#interface S0/1/0

Fire(config-if)#ip route 192.168.6.0 255.255.255.192 192.168.8.137 5

Fire(config)#interface S0/0/1

Fire(config-if)#ip address 192.168.8.141 255.255.255.252

Fire(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to down

Fire(config-if)#

Fire(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up

Fire#show ip route

Codes: L - local, C - connected, S - static, 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

192.168.6.0/26 is subnetted, 1 subnets

S 192.168.6.0/26 [5/0] via 192.168.8.137

192.168.7.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.7.0/24 is directly connected, GigabitEthernet0/0

L 192.168.7.1/32 is directly connected, GigabitEthernet0/0

192.168.8.0/24 is variably subnetted, 7 subnets, 3 masks

S 192.168.8.64/26 [1/0] via 192.168.8.130

C 192.168.8.128/30 is directly connected, Serial0/0/0

L 192.168.8.129/32 is directly connected, Serial0/0/0

C 192.168.8.136/30 is directly connected, Serial0/1/0

L 192.168.8.138/32 is directly connected, Serial0/1/0

C 192.168.8.140/30 is directly connected, Serial0/0/1

Fire#

Fire#

Fire#conf t

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

Fire(config)#router rip

Fire(config-router)#version 2

Fire(config-router)#end

Fire#

%SYS-5-CONFIG\_I: Configured from console by console

Fire#show ip route

Codes: L - local, C - connected, S - static, 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

192.168.6.0/26 is subnetted, 1 subnets

S 192.168.6.0/26 [5/0] via 192.168.8.137

192.168.7.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.7.0/24 is directly connected, GigabitEthernet0/0

L 192.168.7.1/32 is directly connected, GigabitEthernet0/0

192.168.8.0/24 is variably subnetted, 7 subnets, 3 masks

S 192.168.8.64/26 [1/0] via 192.168.8.130

C 192.168.8.128/30 is directly connected, Serial0/0/0

L 192.168.8.129/32 is directly connected, Serial0/0/0

C 192.168.8.136/30 is directly connected, Serial0/1/0

L 192.168.8.138/32 is directly connected, Serial0/1/0

C 192.168.8.140/30 is directly connected, Serial0/0/1

L 192.168.8.141/32 is directly connected, Serial0/0/1

Fire#

Fire#conf t

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

Fire(config)#ip route 0.0.0.0 0.0.0.0 192.168.8.142

Fire(config)#router rip

Fire(config-router)#version 2

Fire(config-router)#no auto-summary

Fire(config-router)#default-

Fire(config-router)#default-information originate

Fire(config-router)#end

Fire#

%SYS-5-CONFIG\_I: Configured from console by console

Fire#router rip

^

% Invalid input detected at '^' marker.

Fire#conf t

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

Fire(config)#router rip

Fire(config-router)#version 2

Fire(config-router)#network 192.168.7.0

Fire(config-router)#network 192.168.8.64

Fire(config-router)#end

Fire#

%SYS-5-CONFIG\_I: Configured from console by console

Fire#cop

Fire#copy r

Fire#copy running-config s

Fire#copy running-config st

Fire#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Fire#

Fire#conf t

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

Fire(config)#router rip

Fire(config-router)#version 2

Fire(config-router)#network 192.168.8.140

Fire(config-router)#end

Fire#

%SYS-5-CONFIG\_I: Configured from console by console

Fire#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Fire#

Fire#show ip route

Codes: L - local, C - connected, S - static, 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 192.168.8.142 to network 0.0.0.0

R 192.168.0.0/22 [120/1] via 192.168.8.142, 00:00:02, Serial0/0/1

R 192.168.4.0/23 [120/2] via 192.168.8.142, 00:00:02, Serial0/0/1

192.168.6.0/26 is subnetted, 1 subnets

S 192.168.6.0/26 [5/0] via 192.168.8.137

192.168.7.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.7.0/24 is directly connected, GigabitEthernet0/0

L 192.168.7.1/32 is directly connected, GigabitEthernet0/0

192.168.8.0/24 is variably subnetted, 10 subnets, 3 masks

R 192.168.8.0/26 [120/2] via 192.168.8.142, 00:00:02, Serial0/0/1

S 192.168.8.64/26 [1/0] via 192.168.8.130

C 192.168.8.128/30 is directly connected, Serial0/0/0

L 192.168.8.129/32 is directly connected, Serial0/0/0

C 192.168.8.136/30 is directly connected, Serial0/1/0

L 192.168.8.138/32 is directly connected, Serial0/1/0

C 192.168.8.140/30 is directly connected, Serial0/0/1

L 192.168.8.141/32 is directly connected, Serial0/0/1

R 192.168.8.144/30 [120/1] via 192.168.8.142, 00:00:02, Serial0/0/1

R 192.168.8.148/30 [120/1] via 192.168.8.142, 00:00:02, Serial0/0/1

S\* 0.0.0.0/0 [1/0] via 192.168.8.142

Fire#conf t

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

Fire(config)#ip route 192.168.8.128 255.255.255.252 192.168.8.142

Fire(config)#router rip default-

Fire(config)#router rip default-in

Fire(config)#router rip default-info

Fire(config)#router rip default-information orig

Fire(config)#router rip

Fire(config-router)#version 2

Fire(config-router)#default-inf

Fire(config-router)#default-information or

Fire(config-router)#default-information originate

Fire(config-router)#end

Fire#

%SYS-5-CONFIG\_I: Configured from console by console

end

Translating "end"

% Unknown command or computer name, or unable to find computer address

Fire#show ip route

Codes: L - local, C - connected, S - static, 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 192.168.8.142 to network 0.0.0.0

R 192.168.0.0/22 [120/1] via 192.168.8.142, 00:00:06, Serial0/0/1

R 192.168.4.0/23 [120/2] via 192.168.8.142, 00:00:06, Serial0/0/1

192.168.6.0/26 is subnetted, 1 subnets

S 192.168.6.0/26 [5/0] via 192.168.8.137

192.168.7.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.7.0/24 is directly connected, GigabitEthernet0/0

L 192.168.7.1/32 is directly connected, GigabitEthernet0/0

192.168.8.0/24 is variably subnetted, 10 subnets, 3 masks

R 192.168.8.0/26 [120/2] via 192.168.8.142, 00:00:06, Serial0/0/1

S 192.168.8.64/26 [1/0] via 192.168.8.130

C 192.168.8.128/30 is directly connected, Serial0/0/0

L 192.168.8.129/32 is directly connected, Serial0/0/0

C 192.168.8.136/30 is directly connected, Serial0/1/0

L 192.168.8.138/32 is directly connected, Serial0/1/0

C 192.168.8.140/30 is directly connected, Serial0/0/1

L 192.168.8.141/32 is directly connected, Serial0/0/1

R 192.168.8.144/30 [120/1] via 192.168.8.142, 00:00:06, Serial0/0/1

R 192.168.8.148/30 [120/1] via 192.168.8.142, 00:00:06, Serial0/0/1

S\* 0.0.0.0/0 [1/0] via 192.168.8.142

Fire#

Fire#conf t

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

Fire(config)#no ip route 192.168.8.128 255.255.255.252 192.168.8.142

Fire(config)#end

Fire#

%SYS-5-CONFIG\_I: Configured from console by console

Fire#

**Mind Control Protective Site:**

Router>en

Router#erase startup-config

Erasing the nvram filesystem will remove all configuration files! Continue? [confirm]

[OK]

Erase of nvram: complete

%SYS-7-NV\_BLOCK\_INIT: Initialized the geometry of nvram

Router#

Router con0 is now available

Press RETURN to get started.

Router>en

Router#reload

Proceed with reload? [confirm]

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:

% Please answer 'yes' or 'no'.

Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>en

Router#conf t

Router#conf terminal

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

Router(config)#hostname Mind

Mind(config)#no ip domain-lookup

Mind(config)#enable secret class

Mind(config)#line console 0

Mind(config-line)#password cisco

Mind(config-line)#login

Mind(config-line)#exit

Mind(config)#line vty 0 4

Mind(config-line)#password cisco

Mind(config-line)#login

Mind(config-line)#exit

Mind(config)#

Mind>en

Password:

Mind#en

Mind#conf t

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

Mind(config)#interface Gig 0/0

Mind(config-if)#ip address 192.168.6.1 255.255.255.0

Mind(config-if)#no shutdown

Mind(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Mind(config-if)#copy s

Mind(config-if)#copy running-config startup-config

^

% Invalid input detected at '^' marker.

Mind(config-if)#exit

Mind(config)#copy running-config startup-config

^

% Invalid input detected at '^' marker.

Mind(config)#end

Mind#

%SYS-5-CONFIG\_I: Configured from console by console

conf t

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

Mind(config)#copy running-config startup-config

^

% Invalid input detected at '^' marker.

Mind(config)#exit

Mind#

%SYS-5-CONFIG\_I: Configured from console by console

Mind#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Mind#

Mind#conf t

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

Mind(config)#interface Serial 0/0/0

Mind(config-if)#ip address 192.168.8.129 255.255.255.192

Mind(config-if)#no shutdown

Mind(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

end

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up

User Access Verification

Password:

Mind>en

Password:

Mind#conf t

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

Mind(config)#interface S0/0/0

Mind(config-if)#ip address 192.168.8.134 255.255.255.252

Mind(config-if)#no shut

Mind(config-if)#end

Mind#

%SYS-5-CONFIG\_I: Configured from console by console

Mind#conf t

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

Mind(config)#interface S0/0/1

Mind(config-if)#ip address 192.168.8.137 255.255.255.252

Mind(config-if)#no shut

Mind(config-if)#

Mind con0 is now available

Press RETURN to get started.

User Access Verification

Password:

Mind>en

Password:

Password:

Mind#conf t

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

Mind(config)#interface S0/0/0

Mind(config-if)#ip route 192.168.8.64 255.255.255.192 192.168.8.133

Mind(config)#interface S0/0/1

Mind(config-if)#ip route 192.168.7.0 255.255.255.0 192.168.8.138 5

Mind(config)#exit

Mind#

%SYS-5-CONFIG\_I: Configured from console by console

Mind#show ip route

Codes: L - local, C - connected, S - static, 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

192.168.6.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.6.0/24 is directly connected, GigabitEthernet0/0

L 192.168.6.1/32 is directly connected, GigabitEthernet0/0

S 192.168.7.0/24 [5/0] via 192.168.8.138

192.168.8.0/24 is variably subnetted, 5 subnets, 3 masks

S 192.168.8.64/26 [1/0] via 192.168.8.133

C 192.168.8.132/30 is directly connected, Serial0/0/0

L 192.168.8.134/32 is directly connected, Serial0/0/0

C 192.168.8.136/30 is directly connected, Serial0/0/1

L 192.168.8.137/32 is directly connected, Serial0/0/1

Mind#

**Water Protective Site:**

Router>en

Router#erase startup-config

Erasing the nvram filesystem will remove all configuration files! Continue? [confirm]

[OK]

Erase of nvram: complete

%SYS-7-NV\_BLOCK\_INIT: Initialized the geometry of nvram

Router#

Router con0 is now available

Press RETURN to get started.

Router>en

Router#reload

Proceed with reload? [confirm]

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:

% Please answer 'yes' or 'no'.

Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>en

Router#conf t

Router#conf terminal

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

Router(config)#hostname Water

Water(config)#no ip domain-lookup

Water(config)#enable secret class

Water(config)#line console 0

Water(config-line)#password cisco

Water(config-line)#login

Water(config-line)#exit

Water(config)#line vty 0 4

Water(config-line)#password cisco

Water(config-line)#login

Water(config-line)#exit

Water(config)#

Water>en

Password:

Water#en

Water#conf t

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

Water(config)#interface Gig 0/0

Water(config-if)#ip address 192.168.8.65l 255.255.255.192

Water(config-if)#no shutdown

Water(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Water(config-if)#copy s

Water(config-if)#copy running-config startup-config

^

% Invalid input detected at '^' marker.

Water(config-if)#exit

Water(config)#copy running-config startup-config

^

% Invalid input detected at '^' marker.

Water(config)#end

Water#

%SYS-5-CONFIG\_I: Configured from console by console

conf t

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

Water(config)#copy running-config startup-config

^

% Invalid input detected at '^' marker.

Water(config)#exit

Water#

%SYS-5-CONFIG\_I: Configured from console by console

Water#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Water#

Water#conf t

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

Water(config)#interface Serial 0/0/0

Water(config-if)#ip address 192.168.7.1 255.255.255.0

Water(config-if)#no shutdown

Water(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

end

Water#

%SYS-5-CONFIG\_I: Configured from console by console

Water#copy running

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

User Access Verification

Password:

Water>en

Password:

Water#conf t

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

Water(config)#interface Serial 0/0/1

Water(config-if)#ip address 192.168.6.1 255.255.255.0

Water(config-if)#no shutdown

Water(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up

end

Water#

%SYS-5-CONFIG\_I: Configured from console by console

Water#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up

User Access Verification

Password:

Water>enable

Password:

Password:

Water#configure terminal

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

Water(config)#interface GigabitEthernet0/0

Water(config-if)#no ip address

Water(config-if)#

Water(config-if)#exit

Water(config)#interface Serial0/0/0

Water(config-if)#

Water(config-if)#exit

Water(config)#interface GigabitEthernet0/1

Water(config-if)#

Water(config-if)#exit

Water(config)#interface GigabitEthernet0/0

Water(config-if)#

Water(config-if)#exit

Water(config)#interface GigabitEthernet0/1

Water(config-if)#

Water(config-if)#exit

Water(config)#interface GigabitEthernet0/0

Water(config-if)#

Water(config-if)#exit

Water(config)#interface GigabitEthernet0/0

Water(config-if)#

Water(config-if)#exit

Water(config)#interface GigabitEthernet0/0

Water(config-if)#

Water(config-if)#exit

Water(config)#interface GigabitEthernet0/1

Water(config-if)#Water(config-if)#

Water(config-if)#exit

Water(config)#interface GigabitEthernet0/0

Water(config-if)#ip address 192.168.8.65 255.255.255.0

Water(config-if)#ip address 192.168.8.65 255.255.255.192

Water(config-if)#

Water(config-if)#exit

Water(config)#interface GigabitEthernet0/1

Water(config-if)#

Water(config-if)#exit

Water(config)#interface GigabitEthernet0/0

Water(config-if)#% Bad secrets

Water(config-if)#

Water(config-if)#end

Water#

%SYS-5-CONFIG\_I: Configured from console by console

Water#conf t

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

Water(config)#interface S0/0/0

Water(config-if)#ip address 192.168.8.130 255.255.255.252

Water(config-if)#no shut

Water(config-if)#end

Water#

%SYS-5-CONFIG\_I: Configured from console by console

Water#conf t

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

Water(config)#interface S0/0/1

Water(config-if)#ip address 192.168.8.133 255.255.255.252

Water(config-if)#no shut

Water(config-if)#exit

Water(config)#ip route 192.168.7.0 255.255.255.0 192.168.8.129

Water(config)#end

Water#

%SYS-5-CONFIG\_I: Configured from console by console

Water#show ip route

Codes: L - local, C - connected, S - static, 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 192.168.7.0/24 [1/0] via 192.168.8.129

192.168.8.0/24 is variably subnetted, 6 subnets, 3 masks

C 192.168.8.64/26 is directly connected, GigabitEthernet0/0

L 192.168.8.65/32 is directly connected, GigabitEthernet0/0

C 192.168.8.128/30 is directly connected, Serial0/0/0

L 192.168.8.130/32 is directly connected, Serial0/0/0

C 192.168.8.132/30 is directly connected, Serial0/0/1

L 192.168.8.133/32 is directly connected, Serial0/0/1

Water#conf t

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

Water(config)#no ip route 192.168.7.0 255.255.255.0 192.168.8.129

Water(config)#interface S0/0/0

Water(config-if)#ip route 192.168.7.0 255.255.255.0 192.168.8.129

Water(config)#interface S0/0/1

Water(config-if)#ip route 192.168.6.0 255.255.255.0 192.168.8.134

Water(config)#exit

Water#

%SYS-5-CONFIG\_I: Configured from console by console

s

% Ambiguous command: "s"

Water#show ip route

Codes: L - local, C - connected, S - static, 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 192.168.6.0/24 [1/0] via 192.168.8.134

S 192.168.7.0/24 [1/0] via 192.168.8.129

192.168.8.0/24 is variably subnetted, 6 subnets, 3 masks

C 192.168.8.64/26 is directly connected, GigabitEthernet0/0

L 192.168.8.65/32 is directly connected, GigabitEthernet0/0

C 192.168.8.128/30 is directly connected, Serial0/0/0

L 192.168.8.130/32 is directly connected, Serial0/0/0

C 192.168.8.132/30 is directly connected, Serial0/0/1

L 192.168.8.133/32 is directly connected, Serial0/0/1

Water#

**Intelligence Protective Site:**

Router>en

Router#erase st

Router#erase startup-config

Erasing the nvram filesystem will remove all configuration files! Continue? [confirm]

[OK]

Erase of nvram: complete

%SYS-7-NV\_BLOCK\_INIT: Initialized the geometry of nvram

Router#reload

Proceed with reload? [confirm]

System Bootstrap, Version 15.1(4)M4, RELEASE SOFTWARE (fc1)

Technical Support: http://www.cisco.com/techsupport

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Total memory size = 512 MB - On-board = 512 MB, DIMM0 = 0 MB

CISCO1941/K9 platform with 524288 Kbytes of main memory

Main memory is configured to 64/-1(On-board/DIMM0) bit mode with ECC disabled

Readonly ROMMON initialized

program load complete, entry point: 0x80803000, size: 0x1b340

program load complete, entry point: 0x80803000, size: 0x1b340

IOS Image Load Test

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Digitally Signed Release Software

program load complete, entry point: 0x81000000, size: 0x2bb1c58

Self decompressing the image :

########################################################################## [OK]

Smart Init is enabled

smart init is sizing iomem

TYPE MEMORY\_REQ

HWIC Slot 0 0x00200000 Onboard devices &

buffer pools 0x01E8F000

-----------------------------------------------

TOTAL: 0x0268F000

Rounded IOMEM up to: 40Mb.

Using 6 percent iomem. [40Mb/512Mb]

Restricted Rights Legend

Use, duplication, or disclosure by the Government is

subject to restrictions as set forth in subparagraph

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Rights clause at FAR sec. 52.227-19 and subparagraph

(c) (1) (ii) of the Rights in Technical Data and Computer

Software clause at DFARS sec. 252.227-7013.

cisco Systems, Inc.

170 West Tasman Drive

San Jose, California 95134-1706

Cisco IOS Software, C1900 Software (C1900-UNIVERSALK9-M), Version 15.1(4)M4, RELEASE SOFTWARE (fc2)

Technical Support: http://www.cisco.com/techsupport

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Compiled Thurs 5-Jan-12 15:41 by pt\_team

Image text-base: 0x2100F918, data-base: 0x24729040

This product contains cryptographic features and is subject to United

States and local country laws governing import, export, transfer and

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third-party authority to import, export, distribute or use encryption.

Importers, exporters, distributors and users are responsible for

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A summary of U.S. laws governing Cisco cryptographic products may be found at:

http://www.cisco.com/wwl/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to

export@cisco.com.

Cisco CISCO1941/K9 (revision 1.0) with 491520K/32768K bytes of memory.

Processor board ID FTX152400KS

2 Gigabit Ethernet interfaces

2 Low-speed serial(sync/async) network interface(s)

DRAM configuration is 64 bits wide with parity disabled.

255K bytes of non-volatile configuration memory.

249856K bytes of ATA System CompactFlash 0 (Read/Write)

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>en

Router#conf t

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

Router(config)#Hostname Intelligence

Intelligence(config)#no ip domain

Intelligence(config)#no ip domain-

Intelligence(config)#no ip domain-l

Intelligence(config)#no ip domain-lookup

Intelligence(config)#enable secret clss

Intelligence(config)#no enable secret clss

^

% Invalid input detected at '^' marker.

Intelligence(config)#no enable secret

Intelligence(config)#enable secret class

Intelligence(config)#line console 0

Intelligence(config-line)#password cisco

Intelligence(config-line)#login =

^

% Invalid input detected at '^' marker.

Intelligence(config-line)#login

Intelligence(config-line)#exit

Intelligence(config)#line vty 0 4

Intelligence(config-line)#password cisco

Intelligence(config-line)#login

Intelligence(config-line)#exit

Intelligence(config)#interface G0/0/0

%Invalid interface type and number

Intelligence(config)#interface G0/0

Intelligence(config-if)#ip address 192.168.8.1 255.255.255.192

Intelligence(config-if)#exit

Intelligence(config)#copy running-config startup-config

^

% Invalid input detected at '^' marker.

Intelligence(config)#exit

Intelligence#

%SYS-5-CONFIG\_I: Configured from console by console

Intelligence#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Intelligence#

Intelligence#

Intelligence#no shut

^

% Invalid input detected at '^' marker.

Intelligence#

Intelligence#conf t

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

Intelligence(config)#no shut

^

% Invalid input detected at '^' marker.

Intelligence(config)#interface g0/0

Intelligence(config-if)#no shut

Intelligence(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Intelligence(config-if)#interface s0/0

%Invalid interface type and number

Intelligence(config)#interface s0/0/0

Intelligence(config-if)#ip address 192.168.8.146 255.255.255.252

Intelligence(config-if)#no shut

Intelligence(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

Intelligence(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

User Access Verification

Password:

Intelligence>en

Password:

Password:

Intelligence#conf t

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

Intelligence(config)#router rip

Intelligence(config-router)#version 2

Intelligence(config-router)#network 192.168.8.0

Intelligence(config-router)#network 192.168.8.144

Intelligence(config-router)#end

Intelligence#

%SYS-5-CONFIG\_I: Configured from console by console

Intelligence#copy s

Intelligence#copy runnin

Intelligence#copy running-config star

Intelligence#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Intelligence#

Intelligence#

Intelligence con0 is now available

Press RETURN to get started.

User Access Verification

Password:

Intelligence>en

Password:

Intelligence#router rip

^

% Invalid input detected at '^' marker.

Intelligence#conf t

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

Intelligence(config)#router rip

Intelligence(config-router)#version 2

Intelligence(config-router)#no auto-summary

Intelligence(config-router)#

**Wind Protective Site:**

Router>en

Router#erase startup-config

Erasing the nvram filesystem will remove all configuration files! Continue? [confirm]

[OK]

Erase of nvram: complete

%SYS-7-NV\_BLOCK\_INIT: Initialized the geometry of nvram

Router#

Router con0 is now available

Press RETURN to get started.

Router>en

Router#reload

Proceed with reload? [confirm]

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:

% Please answer 'yes' or 'no'.

Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>en

Router#conf t

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

Router(config)#no ip domain-lookup

Router(config)#enable secret class

Router(config)#line console 0

Router(config-line)#password cisco

Router(config-line)#login

Router(config-line)#exit

Router(config)#line vty 0 4

Router(config-line)#password cisco

Router(config-line)#login

Router(config-line)#exit

Router(config)#

Router>en

Router#conf t

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

Router(config)#hostname Wind

Wind(config)#no ip domain-lookup

Wind(config)#enable secret class

Wind(config)#line console 0

Wind(config-line)#password cisco

Wind(config-line)#login

Wind(config-line)#exit

Wind(config)#line vty 0 4

Wind(config-line)#password cisco

Wind(config-line)#login

Wind(config-line)#exit

Wind(config)#interface G0/0

Wind(config-if)#ip address 192.168.0.1 255.255.252.0

Wind(config-if)#no shut

Wind(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Wind(config-if)#exit

Wind(config)#interface S0/0

%Invalid interface type and number

Wind(config)#interface S0/0/0

Wind(config-if)#ip address 192.168.8.142 255.255.255.252

Wind(config-if)#no shut

Wind(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

Wind(config-if)#exit

Wind(config)#in

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

% Incomplete command.

Wind(config)#interface S0/0/1

Wind(config-if)#ip address 192.168.8.145 255.255.255.252

Wind(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to down

Wind(config-if)#exit

Wind(config)#interface S0/1/0

Wind(config-if)#ip address 192.168.8.149 255.255.255.252

Wind(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down

Wind(config-if)#

Wind con0 is now available

Press RETURN to get started.

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

User Access Verification

Password:

Password:

Wind>en

Password:

Wind#conf t

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

Wind(config)#router rip

Wind(config-router)#version 2

Wind(config-router)#network 192.168.0.0

Wind(config-router)#network 192.168.8.140

Wind(config-router)#network 192.168.8.148

Wind(config-router)#network 192.168.8.144

Wind(config-router)#end

Wind#

%SYS-5-CONFIG\_I: Configured from console by console

Wind#copy stat

Wind#copy runn

Wind#copy running-config star

Wind#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Wind#

**Speed Protective Site:**

Press RETURN to get started!

Router>en

Router#erase st

Router#erase startup-config

Erasing the nvram filesystem will remove all configuration files! Continue? [confirm]

[OK]

Erase of nvram: complete

%SYS-7-NV\_BLOCK\_INIT: Initialized the geometry of nvram

Router#reload

Proceed with reload? [confirm]

System Bootstrap, Version 15.1(4)M4, RELEASE SOFTWARE (fc1)

Technical Support: http://www.cisco.com/techsupport

Copyright (c) 2010 by cisco Systems, Inc.

Total memory size = 512 MB - On-board = 512 MB, DIMM0 = 0 MB

CISCO1941/K9 platform with 524288 Kbytes of main memory

Main memory is configured to 64/-1(On-board/DIMM0) bit mode with ECC disabled

Readonly ROMMON initialized

program load complete, entry point: 0x80803000, size: 0x1b340

program load complete, entry point: 0x80803000, size: 0x1b340

IOS Image Load Test

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Digitally Signed Release Software

program load complete, entry point: 0x81000000, size: 0x2bb1c58

Self decompressing the image :

########################################################################## [OK]

Smart Init is enabled

smart init is sizing iomem

TYPE MEMORY\_REQ

HWIC Slot 0 0x00200000 Onboard devices &

buffer pools 0x01E8F000

-----------------------------------------------

TOTAL: 0x0268F000

Rounded IOMEM up to: 40Mb.

Using 6 percent iomem. [40Mb/512Mb]

Restricted Rights Legend

Use, duplication, or disclosure by the Government is

subject to restrictions as set forth in subparagraph

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Rights clause at FAR sec. 52.227-19 and subparagraph

(c) (1) (ii) of the Rights in Technical Data and Computer

Software clause at DFARS sec. 252.227-7013.

cisco Systems, Inc.

170 West Tasman Drive

San Jose, California 95134-1706

Cisco IOS Software, C1900 Software (C1900-UNIVERSALK9-M), Version 15.1(4)M4, RELEASE SOFTWARE (fc2)

Technical Support: http://www.cisco.com/techsupport

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Image text-base: 0x2100F918, data-base: 0x24729040

This product contains cryptographic features and is subject to United

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third-party authority to import, export, distribute or use encryption.

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http://www.cisco.com/wwl/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to

export@cisco.com.

Cisco CISCO1941/K9 (revision 1.0) with 491520K/32768K bytes of memory.

Processor board ID FTX152400KS

2 Gigabit Ethernet interfaces

2 Low-speed serial(sync/async) network interface(s)

DRAM configuration is 64 bits wide with parity disabled.

255K bytes of non-volatile configuration memory.

249856K bytes of ATA System CompactFlash 0 (Read/Write)

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>en

Router#conf t

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

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Router#en

Router#conf t

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

Router(config)#no ip domain-l

Router(config)#no ip domain-lookup

Router(config)#enable secret class

Router(config)#line console 0

Router(config-line)#password cisco

Router(config-line)#login

Router(config-line)#exit

Router(config)#line vty 0 4

Router(config-line)#password cisco

Router(config-line)#login

Router(config-line)#exit

Router(config)#interface G0/0/0

%Invalid interface type and number

Router(config)#interface G0/0

Router(config-if)#ip address 192.168.4.1

% Incomplete command.

Router(config-if)#ip address 192.168.4.1 255.255.254.0

Router(config-if)#no shut

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Router(config-if)#exit

Router(config)#

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Router#en

Router#conf t

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

Router(config)#interface S0/0/0

Router(config-if)#ip address 192.168.8.150 255.255.255.252

Router(config-if)#no shut

Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

User Access Verification

Password:

Router>en

Password:

Router#conf t

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

Router(config)#router rip

Router(config-router)#versi

Router(config-router)#version 2

Router(config-router)#network 192.168.4.0

Router(config-router)#network 192.168.8.148

Router(config-router)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#copy run

Router#copy running-config sta

Router#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Router#

Router#