



CSE421
Computer Networks
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Group No: 88
Topic Name: The Pearl City
Section: 06

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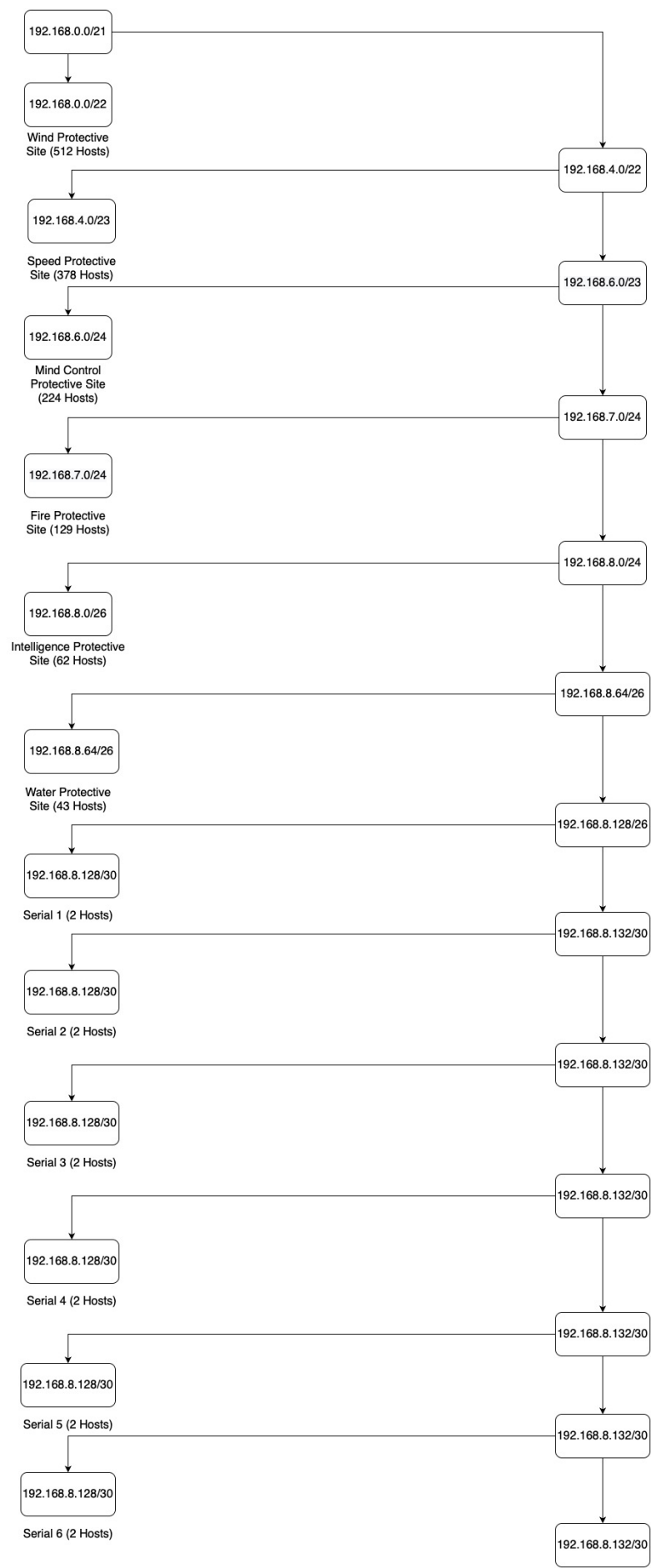
IP Address Table:

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

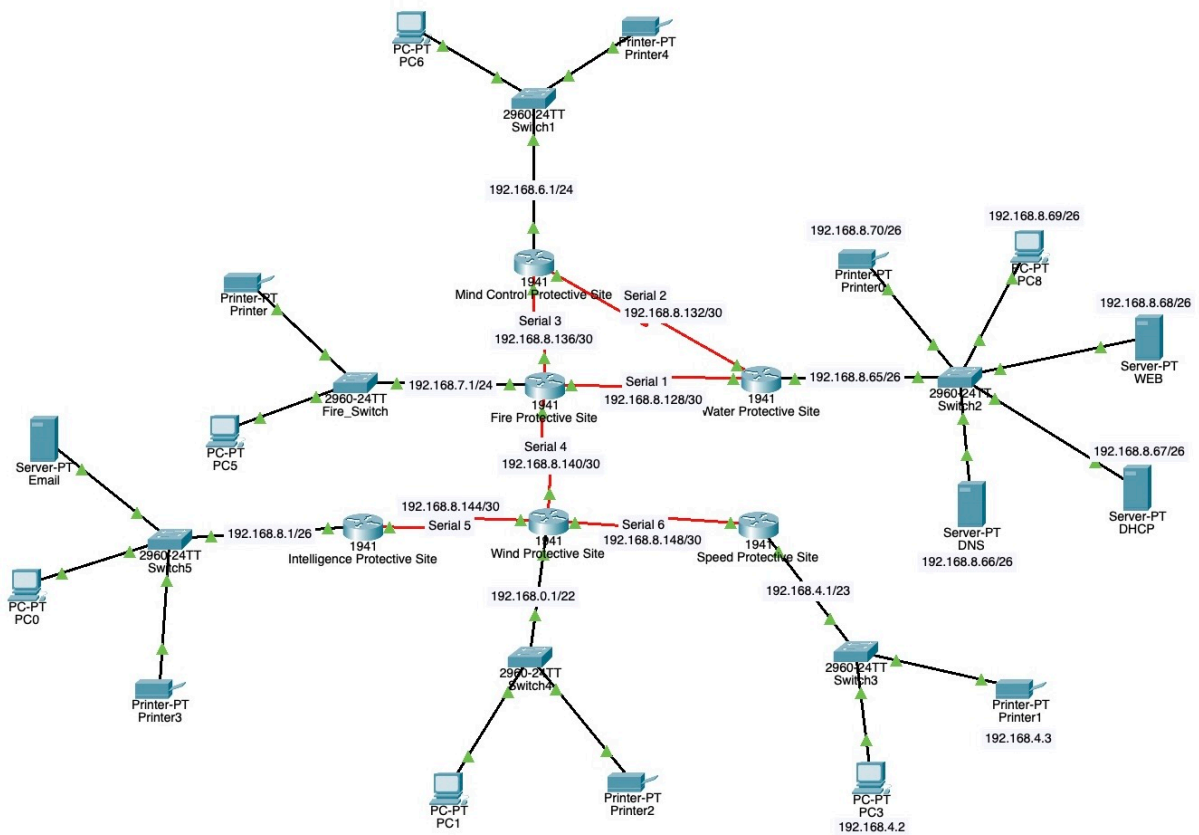
Port Addresses:

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:



Network Topology:



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#
Fire>en
Password:
Fire#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Fire(config)#sinterface g0/0
Fire(config-if)#iniinonip hel
Fire(config-if)#ip help
Fire(config-if)#ip helper-address 192.168.8.67
Fire(config-if)#mnmno shutdown
Fire(config-if)#Fire(config-if)#
Fire(config-if)#exit
Fire(config)#
Fire(config)#
Fire(config)#router rip
Fire(config-router)#
Fire(config-router)#end
Fire#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Fire(config)#
Fire(config)#
%SYS-5-CONFIG_I: Configured from console by console

Fire(config)#
Fire(config)#
Fire(config)#interface GigabitEthernet0/1
Fire(config-if)#
Fire(config-if)#end
Fire#vlan database
% Warning: It is recommended to configure VLAN from config mode,
as VLAN database mode is being deprecated. Please consult user
documentation for configuring VTP/VLAN in config mode.

Fire(vlan)#
%SYS-5-CONFIG_I: Configured from console by console

Fire(vlan)#exit
APPLY completed.
Exiting....
Fire#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Fire(config)#interface GigabitEthernet0/0

Fire(config-if)#

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#

Mind>en

Password:

Mind#conf t

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

Mind(config)#interface G0/0

Mind(config-if)#ip helper

Mind(config-if)#ip helper-address 192.168.8.67

Mind(config-if)#no shut

Mind(config-if)#end

Mind#

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

Mind#

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 192.168.8.65 255.255.255.192
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#
Water>en
Password:
Water#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Water(config)#router rip
Water(config-router)#version 2
Water(config-router)#network 192.168.8.64
Water(config-router)#network 192.168.8.128
Water(config-router)#network 192.168.8.132
Water(config-router)#no shut
    ^
% Invalid input detected at '^' marker.

```

```

Water(config-router)#end

```

```
Water#
%SYS-5-CONFIG_I: Configured from console by console
```

```
Water#copy r
Water#copy running-config s
Water#copy running-config st
Water#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
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
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]

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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

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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)#

User Access Verification

Password:

Password:

Intelligence>en

Password:

Intelligence#conf t

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

Intelligence(config)#interface G0/0

Intelligence(config-if)#ip hel

Intelligence(config-if)#ip help

Intelligence(config-if)#ip helper-address 192.168.8.67

Intelligence(config-if)#exit

Intelligence(config)#

Intelligence(config)#no shut

^

% Invalid input detected at '^' marker.

Intelligence(config)#interface G0/0

Intelligence(config-if)#no shut

Intelligence(config-if)#

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]

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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

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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]

User Access Verification

Password:

Password:

Password:

Wind>en

Password:

Password:

Wind#conf t

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

Wind(config)#inter

Wind(config)#interface g0/0

Wind(config-if)#ip add

Wind(config-if)#ip help

Wind(config-if)#ip helper-address 192.168.8.67

Wind(config-if)#no shut

Wind(config-if)#end

Wind#

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