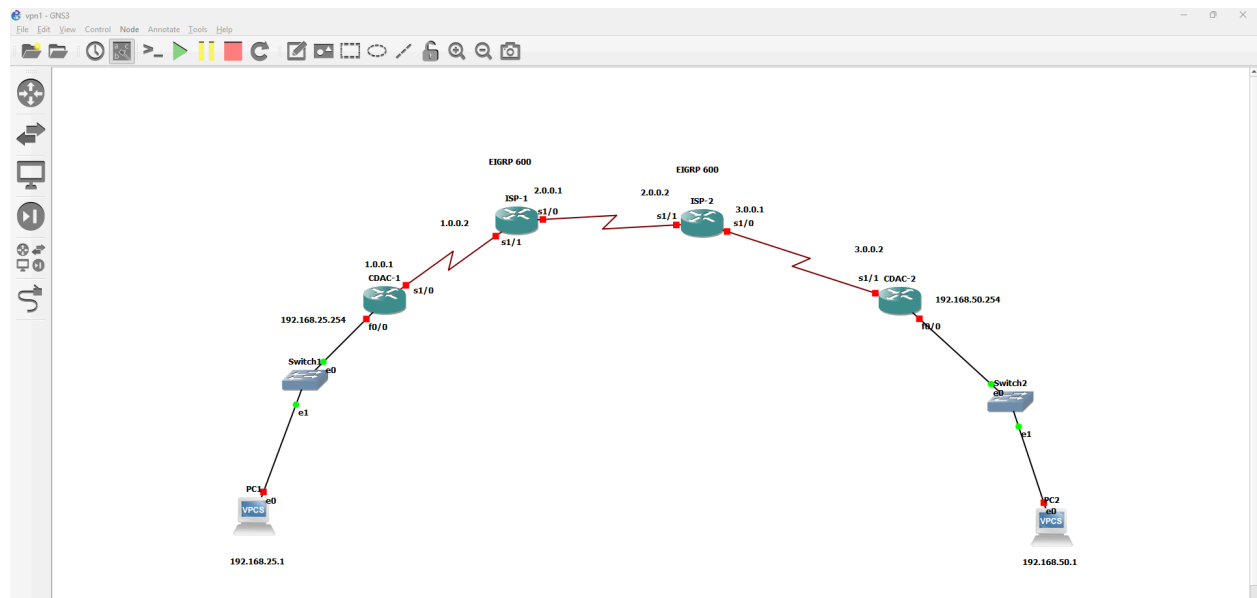


Name: Chetan Satone  
Prn no. 240850123008



```
ISP-1
ISP-1#0-5-UPDOWN: Line protocol on Interface Serial1/1, changed state to down
*Dec 18 16:55:29.767: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/2, changed state to down
*Dec 18 16:55:29.779: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/3, changed state to down
*Dec 18 16:55:30.863: %LINK-5-CHANGED: Interface FastEthernet0/0, changed state to administratively down
*Dec 18 16:55:31.027: %LINK-5-CHANGED: Interface Serial1/0, changed state to administratively down
*Dec 18 16:55:31.035: %LINK-5-CHANGED: Interface Serial1/1, changed state to administratively down
*Dec 18 16:55:31.039: %LINK-5-CHANGED: Interface Serial1/2, changed state to administratively down
*Dec 18 16:55:31.039: %LINK-5-CHANGED: Interface Serial1/3, changed state to administratively down
*Dec 18 16:55:31.039: %LINK-5-CHANGED: Interface Serial1/4, changed state to administratively down
*Dec 18 16:55:31.039: %LINK-5-CHANGED: Interface Serial1/5, changed state to administratively down
*Dec 18 16:55:31.039: %LINK-5-CHANGED: Interface Serial1/6, changed state to administratively down
*Dec 18 16:55:31.039: %LINK-5-CHANGED: Interface Serial1/7, changed state to administratively down
*Dec 18 16:55:31.039: %LINK-5-CHANGED: Interface FastEthernet2/0, changed state to administratively down
*Dec 18 16:55:31.039: %LINK-5-CHANGED: Interface FastEthernet2/1, changed state to administratively down
ISP-1#
ISP-1#
ISP-1#
ISP-1#CONFIG T
Enter configuration commands, one per line. End with CNTL/Z.
ISP-1(config)#int ser
ISP-1(config)#int serial 1/0
ISP-1(config-if)#ip add
ISP-1(config-if)#ip address 2.0.0.1 255.255.255.0
ISP-1(config-if)#no shutdown
ISP-1(config-if)#
*Dec 18 16:56:28.867: %LINK-3-UPDOWN: Interface Serial1/0, changed state to up
ISP-1(config-if)#
*Dec 18 16:56:29.879: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to up
ISP-1(config-if)#int serial 1/1
ISP-1(config-if)#ip address 1.0.0.2 255.255.255.0
ISP-1(config-if)#
*Dec 18 16:56:56.211: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to down
ISP-1(config-if)#no shutdown
ISP-1(config-if)#
*Dec 18 16:57:02.103: %LINK-3-UPDOWN: Interface Serial1/1, changed state to up
ISP-1(config-if)#
*Dec 18 16:57:03.111: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/1, changed state to up
ISP-1(config-if)#
```

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```
ISP-2
*Dec 18 16:55:31.007: %LINK-5-CHANGED: Interface Serial1/2, changed state to administratively down
*Dec 18 16:55:31.007: %LINK-5-CHANGED: Interface Serial1/3, changed state to administratively down
*Dec 18 16:55:31.007: %LINK-5-CHANGED: Interface Serial1/4, changed state to administratively down
*Dec 18 16:55:31.007: %LINK-5-CHANGED: Interface Serial1/5, changed state to administratively down
*Dec 18 16:55:31.007: %LINK-5-CHANGED: Interface Serial1/6, changed state to administratively down
*Dec 18 16:55:31.007: %LINK-5-CHANGED: Interface Serial1/7, changed state to administratively down
*Dec 18 16:55:31.007: %LINK-5-CHANGED: Interface FastEthernet2/0, changed state to administratively down
*Dec 18 16:55:31.007: %LINK-5-CHANGED: Interface FastEthernet2/1, changed state to administratively down
ISP-2#
ISP-2#
ISP-2#
ISP-2#
ISP-2#config t
Enter configuration commands, one per line. End with CNTL/Z.
ISP-2(config)#int serial 1/1
ISP-2(config-if)#ip address 2.0.0.2 255.255.255.0
ISP-2(config-if)#no shutdown
ISP-2(config-if)#
*Dec 18 16:58:11.559: %LINK-3-UPDOWN: Interface Serial1/1, changed state to up
*Dec 18 16:58:12.567: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/1, changed state to up
ISP-2(config-if)#
ISP-2(config-if)#
ISP-2(config-if)#
ISP-2(config-if)#int serial 1/0
ISP-2(config-if)#ip address 3.0.0.1 255.255.255.0
ISP-2(config-if)#no shutdown
ISP-2(config-if)#
*Dec 18 16:58:53.727: %LINK-3-UPDOWN: Interface Serial1/0, changed state to up
*Dec 18 16:58:54.727: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to up
ISP-2(config-if)#
```

```
ISP-2(config-if)#
*Dec 18 16:59:16.243: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to down
ISP-2(config-if)#
ISP-2(config-if)#
ISP-2(config-if)#
ISP-2(config-if)#
ISP-2(config-if)#exit
ISP-2(config)#router eigrp 600
ISP-2(config-router)#no auto-summary
ISP-2(config-router)#network 2.0.0.0
ISP-2(config-router)#network 3.0.0.0
ISP-2(config-router)#end
ISP-2#
*Dec 18 17:00:04.339: %SYS-5-CONFIG_I: Configured from console by console
ISP-2#
```

```
ISP-1#config t
Enter configuration commands, one per line. End with CNTL/Z.
ISP-1(config)#router eigrp 600
ISP-1(config-router)#no auto-summary
ISP-1(config-router)#network 1.0.0.0
ISP-1(config-router)#network 2.0.0.0
ISP-1(config-router)#
*Dec 18 17:01:01.787: %DUAL-5-NBRCHANGE: EIGRP-IPv4 600: Neighbor 2.0.0.2 (Serial1/0) is up: new adjacency
ISP-1(config-router)#
```

```
CDAC-1
*Dec 18 16:55:31.167: %LINK-5-CHANGED: Interface Serial1/1, changed state to administratively down
*Dec 18 16:55:31.171: %LINK-5-CHANGED: Interface Serial1/2, changed state to administratively down
*Dec 18 16:55:31.175: %LINK-5-CHANGED: Interface Serial1/3, changed state to administratively down
*Dec 18 16:55:31.175: %LINK-5-CHANGED: Interface Serial1/4, changed state to administratively down
*Dec 18 16:55:31.175: %LINK-5-CHANGED: Interface Serial1/5, changed state to administratively down
*Dec 18 16:55:31.175: %LINK-5-CHANGED: Interface Serial1/6, changed state to administratively down
*Dec 18 16:55:31.175: %LINK-5-CHANGED: Interface Serial1/7, changed state to administratively down
*Dec 18 16:55:31.175: %LINK-5-CHANGED: Interface FastEthernet2/0, changed state to administratively down
CDAC-1#
CDAC-1#
CDAC-1#
CDAC-1#
CDAC-1#config ty
^
% Invalid input detected at '^' marker.

CDAC-1#config t
Enter configuration commands, one per line. End with CNTL/Z.
CDAC-1(config)#int serial 1/0
CDAC-1(config-if)#ip address 1.0.0.1 255.255.255.0
CDAC-1(config-if)#no shutdown
CDAC-1(config-if)#
*Dec 18 17:02:07.875: %LINK-3-UPDOWN: Interface Serial1/0, changed state to up
CDAC-1(config-if)#
*Dec 18 17:02:08.883: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0, changed state to up
CDAC-1(config-if)#exit
CDAC-1(config)#ip route
% Incomplete command.

CDAC-1(config)#ip route 0.0.0.0 0.0.0.0 1.0.0.2
CDAC-1(config)#
```

```
CDAC-2
administratively down
*Dec 18 16:55:31.155: %LINK-5-CHANGED: Interface Serial1/6, changed state to administratively down
*Dec 18 16:55:31.155: %LINK-5-CHANGED: Interface Serial1/7, changed state to administratively down
*Dec 18 16:55:31.155: %LINK-5-CHANGED: Interface FastEthernet2/0, changed state to administratively down
CDAC-2#
CDAC-2#
CDAC-2#
CDAC-2#
CDAC-2#
CDAC-2#config t
Enter configuration commands, one per line. End with CNTL/Z.
CDAC-2(config)#int seria'
^
% Invalid input detected at '^' marker.

CDAC-2(config)#int serial 1/1
CDAC-2(config-if)#ip address 3.0.0.3
% Incomplete command.

CDAC-2(config-if)#ip address 3.0.0.2 255.255.255.0
CDAC-2(config-if)#no shutdown
CDAC-2(config-if)#
*Dec 18 17:03:55.227: %LINK-3-UPDOWN: Interface Serial1/1, changed state to up
CDAC-2(config-if)#
*Dec 18 17:03:56.235: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/1, changed state to up
CDAC-2(config-if)#exit
CDAC-2(config)#ip route 0.0.0.0 0.0.0.0 3.0.0.1
CDAC-2(config)#
```

```
CDAC-2#
CDAC-2#
CDAC-2#
CDAC-2#
CDAC-2#config t
Enter configuration commands, one per line. End with CNTL/Z.
CDAC-2(config)#int seria'
      ^
% Invalid input detected at '^' marker.

CDAC-2(config)#int serial 1/1
CDAC-2(config-if)#ip address 3.0.0.3
% Incomplete command.

CDAC-2(config-if)#ip address 3.0.0.2 255.255.255.0
CDAC-2(config-if)#no shutdown
CDAC-2(config-if)#
*Dec 18 17:03:55.227: %LINK-3-UPDOWN: Interface Serial1/1, changed state to up
CDAC-2(config-if)#
*Dec 18 17:03:56.235: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/1, changed state to up
CDAC-2(config-if)#exit
CDAC-2(config)#ip route 0.0.0.0 0.0.0.0 3.0.0.1
CDAC-2(config)#end
CDAC-2#
*Dec 18 17:04:33.183: %SYS-5-CONFIG_I: Configured from console by console
CDAC-2#ping 1.0.0.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 1.0.0.1, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 88/90/92 ms
CDAC-2#
```

```
CDAC-2
CDAC-2(config)#int serial 1/1
CDAC-2(config-if)#ip address 3.0.0.3
% Incomplete command.

CDAC-2(config-if)#ip address 3.0.0.2 255.255.255.0
CDAC-2(config-if)#no shutdown
CDAC-2(config-if)#
*Dec 18 17:03:55.227: %LINK-3-UPDOWN: Interface Serial1/1, changed state to up
CDAC-2(config-if)#
*Dec 18 17:03:56.235: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/1, changed state to up
CDAC-2(config-if)#exit
CDAC-2(config)#ip route 0.0.0.0 0.0.0.0 3.0.0.1
CDAC-2(config)#end
CDAC-2#
*Dec 18 17:04:33.183: %SYS-5-CONFIG_I: Configured from console by console
CDAC-2#ping 1.0.0.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 1.0.0.1, timeout is 2 seconds:
!!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 88/90/92 ms
CDAC-2#config t
Enter configuration commands, one per line. End with CNTL/Z.
CDAC-2(config)#int fastE
CDAC-2(config)#int fastEthernet 0/0
CDAC-2(config-if)#ip address 192.168.50.254 255.255.255.0
CDAC-2(config-if)#no shutdown
CDAC-2(config-if)#
*Dec 18 17:05:57.951: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Dec 18 17:05:58.951: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
CDAC-2(config-if)#
```

```
CDAC-1
CDAC-1#config ty
^
% Invalid input detected at '^' marker.

CDAC-1#config t
Enter configuration commands, one per line. End with CNTL/Z.
CDAC-1(config)#int serial 1/0
CDAC-1(config-if)#ip address 1.0.0.1 255.255.255.0
CDAC-1(config-if)#no shutdown
CDAC-1(config-if)#
*Dec 18 17:02:07.875: %LINK-3-UPDOWN: Interface Serial1/0, changed state to up
CDAC-1(config-if)#
*Dec 18 17:02:08.883: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial1/0,
changed state to up
CDAC-1(config-if)#exit
CDAC-1(config)#ip route
% Incomplete command.

CDAC-1(config)#ip route 0.0.0.0 0.0.0.0 1.0.0.2
CDAC-1(config)#end
CDAC-1#
*Dec 18 17:03:16.263: %SYS-5-CONFIG_I: Configured from console by console
CDAC-1#
CDAC-1#z}
CDAC-1#RMxPERM
Translating "RMxPERM"

Translating "RMxPERM"

% Bad IP address or host name
% Unknown command or computer name, or unable to find computer address
CDAC-1#
CDAC-1#
CDAC-1#ping 3.0.0.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 3.0.0.2, timeout is 2 seconds:
!!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 88/92/100 ms
CDAC-1#
```

```
changed state to up
CDAC-1(config-if)#exit
CDAC-1(config)#ip route
% Incomplete command.

CDAC-1(config)#ip route 0.0.0.0 0.0.0.0 1.0.0.2
CDAC-1(config)#end
CDAC-1#
*Dec 18 17:03:16.263: %SYS-5-CONFIG_I: Configured from console by console
CDAC-1#
CDAC-1#z}
CDAC-1#RMXpERM
Translating "RMXpERM"

Translating "RMXpERM"

% Bad IP address or host name
% Unknown command or computer name, or unable to find computer address
CDAC-1#
CDAC-1#
CDAC-1#ping 3.0.0.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 3.0.0.2, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 88/92/100 ms
CDAC-1#config t
Enter configuration commands, one per line. End with CNTL/Z.
CDAC-1(config)#int fastE
CDAC-1(config)#int fastEthernet
% Incomplete command.

CDAC-1(config)#int fastE
CDAC-1(config)#int fastEthernet 0/0
CDAC-1(config-if)#ip address 192.168.25.254 255.255.255.0
CDAC-1(config-if)#no shutdown
CDAC-1(config-if)#
*Dec 18 17:07:27.547: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state to up
*Dec 18 17:07:28.547: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
CDAC-1(config-if)#
```

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```
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
All rights reserved.

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For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC1> ip 192.168.25.1/24 192.168.25.254
Checking for duplicate address...
PC1 : 192.168.25.1 255.255.255.0 gateway 192.168.25.254

PC1>
```

```
PC1 PC2
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
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Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC2> ip 192.168.50.1/24 192.168.50.254
Checking for duplicate address...
PC1 : 192.168.50.1 255.255.255.0 gateway 192.168.50.254

PC2> 
```

```
CDAC-1
CDAC-1(config-isakmp)#encr aes
CDAC-1(config-isakmp)#hash sha256
CDAC-1(config-isakmp)#authentication
CDAC-1(config-isakmp)#authentication pr
CDAC-1(config-isakmp)#authentication pre-share
CDAC-1(config-isakmp)#group 5
CDAC-1(config-isakmp)#crypto is
CDAC-1(config-isakmp)#crypto isakmp
CDAC-1(config-isakmp)#crypto isakmp key cdac2 address 3.0.0.2
CDAC-1(config)#crypto ipsec transform
CDAC-1(config)#crypto ipsec transform-set vpn
% Incomplete command.

CDAC-1(config)#crypto ipsec transform-set vpn esp
CDAC-1(config)#crypto ipsec transform-set vpn esp-aes
CDAC-1(config)#crypto ipsec transform-set vpn esp-aes esp
CDAC-1(config)#crypto ipsec transform-set vpn esp-aes esp-sha
CDAC-1(config)#crypto ipsec transform-set vpn esp-aes esp-sha-hmac
CDAC-1(cfg-crypto-trans)#mode tunnel
CDAC-1(cfg-crypto-trans)#crypto map vpn 10 ipsec-is
CDAC-1(cfg-crypto-trans)#crypto map vpn 10 ipsec-isa
CDAC-1(cfg-crypto-trans)#crypto map vpn 10 ipsec-isakmp
% NOTE: This new crypto map will remain disabled until a peer
and a valid access list have been configured.
CDAC-1(config-crypto-map)#set peer 3.0.0.2
CDAC-1(config-crypto-map)#set tran
CDAC-1(config-crypto-map)#set transform-set vpn
CDAC-1(config-crypto-map)#match address 110
CDAC-1(config-crypto-map)#exit
CDAC-1(config)#$ 110 permit tcp 192.168.25.0 0.0.0.255 192.168.50.0 0.0.0.255
CDAC-1(config)#$t tcp 192.168.25.0 0.0.0.255 192.168.50.0 0.0.0.255 e
CDAC-1(config)#$t tcp 192.168.25.0 0.0.0.255 192.168.50.0 0.0.0.255 eq 22
CDAC-1(config)#$t tcp 192.168.25.0 0.0.0.255 192.168.50.0 0.0.0.255 eq 23
CDAC-1(config)#$t icmp 192.168.25.0 0.0.0.255 192.168.50.0 0.0.0.255
CDAC-1(config)#int f0/0
CDAC-1(config-if)#crypto map vpn
CDAC-1(config-if)#
*Dec 18 17:14:26.827: %CRYPTO-6-ISAKMP_ON_OFF: ISAKMP is ON
CDAC-1(config-if)#
```

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```
CDAC-2
CDAC-2(config)#int fastEthernet 0/0
CDAC-2(config-if)#ip address 192.168.50.254 255.255.255.0
CDAC-2(config-if)#no shutdown
CDAC-2(config-if)#
*Dec 18 17:05:57.951: %LINK-3-UPDOWN: Interface FastEthernet0/0, changed state t
o up
*Dec 18 17:05:58.951: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthern
et0/0, changed state to up
CDAC-2(config-if)#
CDAC-2(config-if)#
CDAC-2(config-if)#
CDAC-2(config-if)#crypto isakmp policy 100
CDAC-2(config-isakmp)#encr aes
CDAC-2(config-isakmp)#hash sha256
CDAC-2(config-isakmp)#authe
CDAC-2(config-isakmp)#authentication pr
CDAC-2(config-isakmp)#authentication pre-share
CDAC-2(config-isakmp)#group 5
CDAC-2(config-isakmp)#crypto isakmp key cdac1 address 1.0.0.1
CDAC-2(config)#crypto ipsec trans
CDAC-2(config)#crypto ipsec transform-set vpn esp-aes esp-sha-hmac
CDAC-2(cfg-crypto-trans)#mode tunnel
CDAC-2(cfg-crypto-trans)#crypto map vpn 10 ipse
CDAC-2(cfg-crypto-trans)#crypto map vpn 10 ipsec-isakmp
% NOTE: This new crypto map will remain disabled until a peer
and a valid access list have been configured.
CDAC-2(config-crypto-map)#set peer 1.0.0.1
CDAC-2(config-crypto-map)#set tran
CDAC-2(config-crypto-map)#set transform-set vpn
CDAC-2(config-crypto-map)#match address 110
CDAC-2(config-crypto-map)#$168.50.0 0.0.0.255 192.168.25.0 0.0.0.255 eq 22
CDAC-2(config)#$t tcp 192.168.50.0 0.0.0.255 192.168.25.0 0.0.0.255 eq 23
CDAC-2(config)#$t icmp 192.168.50.0 0.0.0.255 192.168.25.0 0.0.0.255
CDAC-2(config)#int f0/0
CDAC-2(config-if)#crypto map vpn
CDAC-2(config-if)#
*Dec 18 17:18:23.383: %CRYPTO-6-ISAKMP_ON_OFF: ISAKMP is ON
CDAC-2(config-if)#
```

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