Workbook 1 ISIS

A diagram of a computer network

AI-generated content may be incorrect.

## Task1

Basic configuration files have been provided with IPv4 addressing, implementing IS-IS across the multi-area network. You need to ensure proper route exchange and design segmentation between Level 1 and Level 2 areas.

## Task2

Using show commands ensure that the routers have the correct ISIS level neighbours  
Using show commands ensure the level 2 routers have the correct routes  
Using show commands ascertain if the level 1 routers have the level 2 routes  
Use ping commands to check connectivity   
Save your ISIS configurations for the next workbook

## Task1 Level Solutions

CE2 to CE1 L1 only

CE1 to PE1 L1 only

PE1 to PE22 L2 only

PE22 to PE23 L2 only

PE23 to PE4 L2 only

PE4 to CE4 L1 only

## Task1 Configuration Solution

CE2#

router isis 1

net 49.0002.0000.0002.00

is-type level-1

passive-interface Loopback0

!

interface GigabitEthernet2

ip router isis 1

isis circuit-type level-1

CE1#

router isis 1

net 49.0002.0000.0001.00

is-type level-1

passive-interface Loopback0

!

interface GigabitEthernet1

ip router isis 1

isis circuit-type level-1

!

interface GigabitEthernet2

ip router isis 1

isis circuit-type level-1

PE1#

router isis 1

net 49.0002.0000.0011.00

address-family ipv4 unicast

!

interface Loopback0

passive

address-family ipv4 unicast

!

interface GigabitEthernet0/0/0/1

circuit-type level-1

address-family ipv4 unicast

!

interface GigabitEthernet0/0/0/0

circuit-type level-2-only

address-family ipv4 unicast

PE22#

router isis 1

net 49.0001.0000.0000.0022.00

address-family ipv4 unicast

!

interface Loopback0

passive

address-family ipv4 unicast

!

interface GigabitEthernet0/0/0/2

circuit-type level-2-only

address-family ipv4 unicast

!

interface GigabitEthernet0/0/0/0

circuit-type level-2-only

address-family ipv4 unicast

PE23#

router isis 1

net 49.0001.0000.0023.00

is-type level-2-only

passive-interface Loopback0

!

interface GigabitEthernet1

ip router isis 1

isis circuit-type level-2-only

!

interface GigabitEthernet2

ip router isis 1

isis circuit-type level-2-only

PE4#

router isis 1

net 49.0003.0000.0044.00

address-family ipv4 unicast

!

interface Loopback0

passive

address-family ipv4 unicast

!

interface GigabitEthernet0/0/0/1

circuit-type level-1

address-family ipv4 unicast

!

interface GigabitEthernet0/0/0/2

circuit-type level-2-only

address-family ipv4 unicast

CE4#

router isis 1

net 49.0003.0000.0004.00

is-type level-1

passive-interface Loopback0

!

interface GigabitEthernet1

ip router isis 1

isis circuit-type level-1