# Site 1 Configuration

# Router Configuration for Site 1

hostname Site1-Router

# Interface Configuration

interface GigabitEthernet0/0

description Connection to Site1-Switch

ip address 192.168.1.1 255.255.255.0

no shutdown

interface GigabitEthernet0/1

description Connection to Site2-Router

ip address 10.0.0.1 255.255.255.252

no shutdown

# Security Settings

# Access Control Lists (ACLs)

ip access-list extended SITE1-ACL

permit ip 192.168.1.0 0.0.0.255 any

deny ip any any log

# Apply ACLs to Interfaces

interface GigabitEthernet0/0

ip access-group SITE1-ACL in

# DHCP Configuration

ip dhcp excluded-address 192.168.1.1 192.168.1.10

ip dhcp pool Site1-DHCP

network 192.168.1.0 255.255.255.0

default-router 192.168.1.1

dns-server 192.168.1.2

# DNS Server Configuration

ip dns server

ip dns primary 192.168.1.2

# Routing Configuration

router ospf 1

network 192.168.1.0 0.0.0.255 area 0

network 10.0.0.0 0.0.0.3 area 0

# Switch Configuration for Site 1

hostname Site1-Switch

interface Vlan1

ip address 192.168.1.2 255.255.255.0

no shutdown

interface GigabitEthernet1/0

description Connection to Site1-Router

switchport mode access

switchport access vlan 1

interface GigabitEthernet1/1

description Connection to PCs/Printers in Site 1

switchport mode access

switchport access vlan 1

# Site 2 Configuration

# Router Configuration for Site 2

hostname Site2-Router

# Interface Configuration

interface GigabitEthernet0/0

description Connection to Site2-Switch

ip address 192.168.2.1 255.255.255.0

no shutdown

interface GigabitEthernet0/1

description Connection to Site1-Router

ip address 10.0.0.2 255.255.255.252

no shutdown

# Security Settings

# Access Control Lists (ACLs)

ip access-list extended SITE2-ACL

permit ip 192.168.2.0 0.0.0.255 any

deny ip any any log

# Apply ACLs to Interfaces

interface GigabitEthernet0/0

ip access-group SITE2-ACL in

# DHCP Configuration

ip dhcp excluded-address 192.168.2.1 192.168.2.10

ip dhcp pool Site2-DHCP

network 192.168.2.0 255.255.255.0

default-router 192.168.2.1

dns-server 192.168.2.2

# DNS Server Configuration

ip dns server

ip dns primary 192.168.2.2

# Routing Configuration

router ospf 1

network 192.168.2.0 0.0.0.255 area 0

network 10.0.0.0 0.0.0.3 area 0

# Switch Configuration for Site 2

hostname Site2-Switch

interface Vlan1

ip address 192.168.2.2 255.255.255.0

no shutdown

interface GigabitEthernet1/0

description Connection to Site2-Router

switchport mode access

switchport access vlan 1

interface GigabitEthernet1/1

description Connection to PCs/Printers in Site 2

switchport mode access

switchport access vlan 1