

# ITN Practise Exam

Configure IP addresses for hosts:

124-1:

IPv4 Address: 192.168.1.97  
IPv4 Subnet mask: 255.255.255.224  
IPv4 Default gateway: 192.168.1.126

IPv6 Address: 2001:DB8:ACAD:A::FF/64  
IPv6 Default gateway: FE80::1

124-5:

IPv4 Address: 192.168.1.98  
IPv4 Subnet mask: 255.255.255.224  
IPv4 Default gateway: 192.168.1.126

IPv6 Address: 2001:DB8:ACAD:A::15/64  
IPv6 Default gateway: FE80::1

214-1:

IPv4 Address: 192.168.1.145  
IPv4 Subnet mask: 255.255.255.240  
IPv4 Default gateway: 192.168.1.158

IPv6 Address: 2001:DB8:ACAD:B::FF/64  
IPv6 Default gateway: FE80::1

Server:

IPv4 Address: 192.168.1.146  
IPv4 Subnet mask: 255.255.255.240  
IPv4 Default gateway: 192.168.1.158

IPv6 Address: 2001:DB8:ACAD:B::15/64  
IPv6 Default gateway: FE80::1

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CS Department router

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```
en
conf terminal
hostname CS-Department
enable secret class12345
service password-encryption
banner motd "My Router"
security passwords min-length 10
login block-for 120 attempts 2 within 30
    no ip domain-lookup
    ip domain-name cisco.com
    crypto key generate rsa
```

```

        line console 0
        password cisco12345
            login
        logging synchronous
            exec-timeout 60
            exit
        line vty 0 4
        password cisco12345
            transport input ssh
            login local
        logging synchronous
            exec-timeout 60
            exit
        line aux 0
        password cisco12345
            login
        logging synchronous
            exec-timeout 60
            exit
        ip ssh version 2
        ip ssh time-out 120
username netadmin privilege 15 secret Cisco_CCNA7
        interface g0/0
ip address 192.168.1.126 255.255.255.224
        description First Floor LAN
ipv6 address 2001:DB8:ACAD:A::1/64
        ipv6 address fe80::1 link-local
            no shutdown
            exit
        interface g0/1
ip address 192.168.1.158 255.255.255.240
        description Second Floor LAN
ipv6 address 2001:DB8:ACAD:B::1/64
        ipv6 address fe80::1 link-local
            no shutdown
            exit
        ipv6 unicast-routing
            exit
        write

```

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#### LAB 214-A Switch

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```

enable
conf terminal
enable secret class12345
service password-encryption
banner motd "LAB 214-A Switch"
    no ip domain-lookup
    line console 0
    password cisco12345
        login
    logging synchronous
        exec-timeout 60
        exit
    line vty 0 15
    password cisco12345

```

```
        login
logging synchronous
    exec-timeout 60
        exit
    interface vlan 1
ip address 192.168.1.157 255.255.255.240
    no shutdown
ip default-gateway 192.168.1.158
    exit
    write
```

## ITN Final Exam

### Part 3: Basic Device Setup (Router and Switch)

- ♦ On Router-A

```
    enable
configure terminal
hostname Router-A
no ip domain-lookup
banner motd #Unauthorized access is prohibited!#
    line console 0
    password C@nsPassw!
    login
```

- ♦ On Switch-A

```
    enable
configure terminal
hostname Switch-A
no ip domain-lookup
banner motd #Unauthorized access is prohibited!#
    line console 0
    password C@nsPassw!
    login
```

---

### Part 4: Interface Configuration

- ♦ Router Interfaces

```
# LAN 1 (G0/0/1)
interface g0/0/1
description Connected to LAN 1
```

```
ip address 172.16.1.1 255.255.255.192
    no shutdown

    # LAN 2 (G0/0/0)
    interface g0/0/0
        description Connected to LAN 2
ip address 172.16.1.65 255.255.255.224
    no shutdown
```

- ◆ Switch VLAN Interface (SVI)  
    interface vlan 1  
description Switch Virtual Interface for management  
    ip address 172.16.1.2 255.255.255.192  
        no shutdown

---

#### Part 5: Secure the Devices

- ◆ Password Protection  
enable secret ThisisaSecret  
service password-encryption  
security passwords min-length 10

---

#### SSH Configuration

```
ip domain-name netsec.com
username netadmin secret Ci$co12345
    crypto key generate rsa
        1024
    line vty 0 4
        login local
    transport input ssh
```

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#### Secure Unused Switch Ports

```
interface range fa0/10 - 24
    shutdown
description Unused port - disabled for security
```

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#### Part 6: Configure Computers (PCs)

 PC in LAN 1

- IP: 172.16.1.62
- Subnet mask: 255.255.255.192
- Default gateway: 172.16.1.1

 PC in LAN 2

- IP: 172.16.1.94
  - Subnet mask: 255.255.255.224
  - Default gateway: 172.16.1.65
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 Final Step: Test the Network

Open a Command Prompt on each PC:

```
ping 172.16.1.1 ← test router  
ping 172.16.1.2 ← test switch  
ping the other PC
```