

Configure Basic Router Settings

Laboratory protocol Configure Basic Router Settings



Subject: NWT|ANGE
Class: 3AHITN
Name: Stefan Fürst, Marcel Raichle
Group Name/Number: Dumm und Dümmer/7
Supervisor: ANGE
Exercise dates:
Submission date:

Contents

1 Task definition	3
2 Summary	3
3 Exercise Execution	4
3.1 Set Up the Topology and Initialize Devices	4
3.2 Configure Devices and Verify Connectivity	4
3.2.1 Configure the PC interfaces	4
3.3 Configure the router	5
4 List of figures	6

1 Task definition

2 Summary

3 Exercise Execution

3.1 Set Up the Topology and Initialize Devices

This exercise was done in Cisco Packet Tracer and the devices were placed and wired using the automatic cabling type, as all the devices are Auto-MDIX compliant anyway.

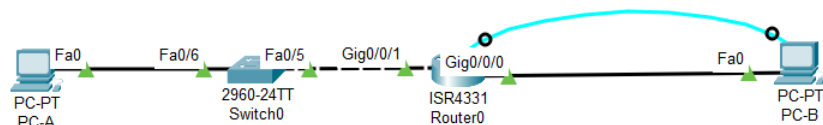


Figure 1: Network topology required for this exercise

After that, everything was turned on and the router and switch were both initialized and reloaded.

3.2 Configure Devices and Verify Connectivity

3.2.1 Configure the PC interfaces

The IP addresses for both PCs have been set in the IP Configuration application.

Display Name	PC-A	Display Name	PC-B
Interfaces	FastEthernet0	Interfaces	FastEthernet0
Gateway/DNS IPv4	<input type="radio"/> DHCP <input checked="" type="radio"/> Static	Gateway/DNS IPv4	<input type="radio"/> DHCP <input checked="" type="radio"/> Static
Default Gateway	192.168.1.1	Default Gateway	192.168.0.1
DNS Server		DNS Server	
Gateway/DNS IPv6	<input type="radio"/> Automatic <input checked="" type="radio"/> Static	Gateway/DNS IPv6	<input type="radio"/> Automatic <input checked="" type="radio"/> Static
Default Gateway	FE80::1	Default Gateway	FE80::1
DNS Server		DNS Server	
IP Configuration	<input type="radio"/> DHCP <input checked="" type="radio"/> Static	IP Configuration	<input type="radio"/> DHCP <input checked="" type="radio"/> Static
IPv4 Address	192.168.1.10	IPv4 Address	192.168.0.10
Subnet Mask	255.255.255.0	Subnet Mask	255.255.255.0
IPv6 Configuration	<input type="radio"/> Automatic <input checked="" type="radio"/> Static	IPv6 Configuration	<input type="radio"/> Automatic <input checked="" type="radio"/> Static
IPv6 Address	2001:DB8:ACAD:1::10 / 64	IPv6 Address	2001:DB8:ACAD::10 / 64
Link Local Address	FE80::2E0:8FFF:FE2D:CD95	Link Local Address	FE80::260:70FF:FEA3:B85C

Figure 2: IP configuration for PC-A and PC-B

3.3 Configure the router

To access the router's configuration mode, connect to the router through the console port and execute the *en* and *conf t* commands.

The following basic settings are configured using the commands listed below:

```
#setting the hostname
hostname R1
#setting the domain name of the router
ip domain name ccna-lab.com
#disable DNS lookup on mistyped commands
no ip domain lookup
#encrypting plaintext passwords
service password-encryption
security passwords min-length 12
```

4 List of figures

List of Figures

1	Network topology required for this exercise	4
2	IP configuration for PC-A and PC-B	4