CCNA 2 V5.1 2016 ANSWERS

CCNA 1 v6.0 – ITN Practice Skills Assessment Packet Tracer Exam Answers

CCNA Exam Answers 2017 March 25, 2017

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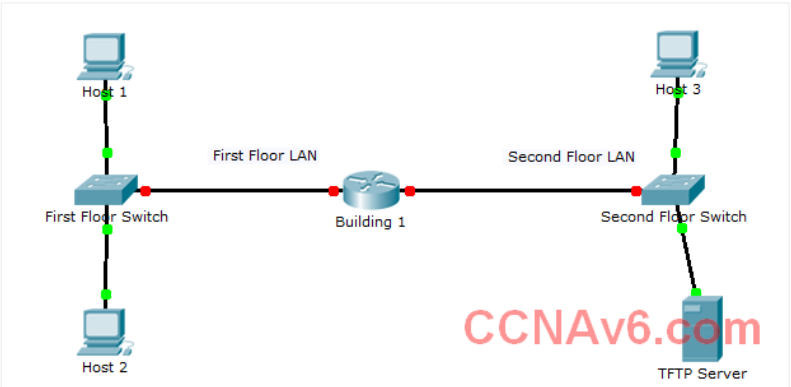
CCNA Routing and Switching Introduction to Networks

ITN Practice Skills Assessment - Packet Tracer Type A



Introduction to Networks (Version 6.0) - ITN Practice Skills Assessment - PT

A few things to keep in mind while completing this activity:

1. Do not use the browser Back button or close or reload any exam windows during the exam.
2. Do not close Packet Tracer when you are done. It will close automatically.
3. Click the Submit Assessment button in the browser window to submit your work.

Introduction

In this assessment, you will configure devices in an IPv4/IPv6 network. For the sake of time, you will not be asked to perform all configurations on all network devices as you may be required to do in a real network or other assessment. Instead, you will use the skills and knowledge that you have learned in the labs in this course to configure the Building 1 router. In addition, you will address the

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hosts on two LANs with IPv4 and IPv6 addresses, activate and address the management interface of the Second Floor Switch, and back up a device configuration to a **TFTP server**.

You will receive one of several topologies.

You are not required to configure the First Floor Switch, and you will not be able to access it in this practice skills assessment activity.

All IOS device configurations should be completed from a direct terminal connection to the device console. In addition, many values that are required to complete the configurations have not been given to you. In those cases, create the values that you need to complete the requirements. For values that have been supplied to you, they must be entered exactly as they appear in order for you to get full credit for your configuration.

You will practice and be assessed on the following skills:
• Configuration of initial IOS device settings
• Design and calculation of IPv4 addressing
• Configuration of IOS device interfaces including IPv4 and IPv6 addressing when appropriate
• Addressing of network hosts with IPv4 and IPv6 addresses
• Enhancing device security, including configuration of the secure transport protocol for remote device configuration
• Configuration of a switch management interface

Requirements by device:

Building 1 router:

• Configuration of initial router settings
• Interface configuration and IPv4 and IPv6 addressing
• Device security enhancement or device hardening
• Secure transport for remote configuration connections as covered in the labs
• Backup of the configuration file to a TFTP server

Second Floor Switch:

• Enabling basic remote management by Telnet

PC and Server hosts:

• IPv4 full addressing
• IPv6 addressing

Addressing Table

Device	Interface	IPv4 Address	Subnet Mask	IPv4 Default Gateway
		IPv6 Address		IPv6 Default Gateway
Building 1	G0/0	192.168.1.126	255.255.255.224	N/A
		2001:DB8:ACAD:A::1/64		N/A
	G0/1	192.168.1.158	255.255.255.240	N/A
		2001:DB8:ACAD:B::1/64		N/A
	Link Local	FE80::1		N/A
Second Floor Switch	Vlan 1	192.168.1.157	255.255.255.240	192.168.1.158
		N/A	N/A	N/A
Host 1	NIC	192.168.1.97	255.255.255.224	192.168.1.126
		2001:DB8:ACAD:A::FF		FE80::1
Host 2	NIC	192.168.1.98	255.255.255.224	192.168.1.126
		2001:DB8:ACAD:A::15		FE80::1
Host 3	NIC	192.168.1.145	255.255.255.240	192.168.1.158
		2001:DB8:ACAD:B::FF		FE80::1
TFTP Server	NIC	192.168.1.146	255.255.255.240	192.168.1.158
		2001:DB8:ACAD:B::15		FE80::1

Instructions

Step 1: Determine the IP Addressing Scheme.

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Design an IPv4 addressing scheme and complete the Addressing Table based on the following requirements. Use the table to help you organize your work.

Subnet Number	Hosts Available	Network Address	Beginning Address	Ending Address	Mask	Assignment
1	30	192.168.1.0	192.168.1.1	192.168.1.30	255.255.255.224	
2	30	192.168.1.32	192.168.1.33	192.168.1.62	255.255.255.224	
3	30	192.168.1.64	192.168.1.65	192.168.1.94	255.255.255.224	
4	30	192.168.1.96	192.168.1.97	192.168.1.126	255.255.255.224	First Floor LAN Subnet
5	14	192.168.1.128	192.168.1.129	192.168.1.142	255.255.255.240	
6	14	192.168.1.144	192.168.1.145	192.168.1.158	255.255.255.240	Second Floor LAN Subnet

a. Subnet the **192.168.1.0/24** network to provide **30 host** addresses per subnet while wasting the fewest addresses.
b. Assign the fourth subnet to the First Floor LAN.
c. Assign the last network host address (the highest) in this subnet to the **G0/0** interface on Building 1. (**192.168.1.126**)
d. Starting with the fifth subnet, subnet the network again so that the new subnets will provide 14 host addresses per subnet while wasting the fewest addresses.
e. Assign the second of these new 14-host subnets to the **Second Floor** LAN.
f. Assign the last network host address (the highest) in the **Second Floor LAN** subnet to the **G0/1** interface of the **Building 1** router. (**192.168.1.158**)
g. Assign the second to the last address (the second highest) in this subnet to the **VLAN 1** interface of the **Second Floor Switch**. (**192.168.1.157**)
h. Configure addresses on the hosts using any of the remaining addresses in their respective subnets.

Step 2: Configure the Building 1 Router.

a. Configure the Building 1 router with all initial configurations that you have learned in the course so far:
• Configure the router hostname: **Middle**
• Protect device configurations from unauthorized access with the encrypted privileged exec password.
• Secure all access lines into the router using methods covered in the course and labs.
• Require newly-entered passwords must have a minimum length of 10 characters.
• Prevent all passwords from being viewed in clear text in device configuration files.
• Configure the router to only accept in-band management connections over the protocol that is more secure than Telnet, as was done in the labs. Use the value **1024** for encryption key strength.
• Configure local user authentication for in-band management connections. Create a user with the name netadmin and a secret password of **Cisco_CCNA5** Give the user the highest administrative privileges. Your answer must match these values exactly.
b. Configure the two Gigabit Ethernet interfaces using the IPv4 addressing values you calculated and the IPv6 values provided in the addressing table.
• Reconfigure the link local addresses to the value shown in the table.
• Document the interfaces in the configuration file.

Step 3: Configure the Second Floor Switch.

Configure Second Floor Switch for remote management over Telnet.

Step 4: Configure and Verify Host Addressing.

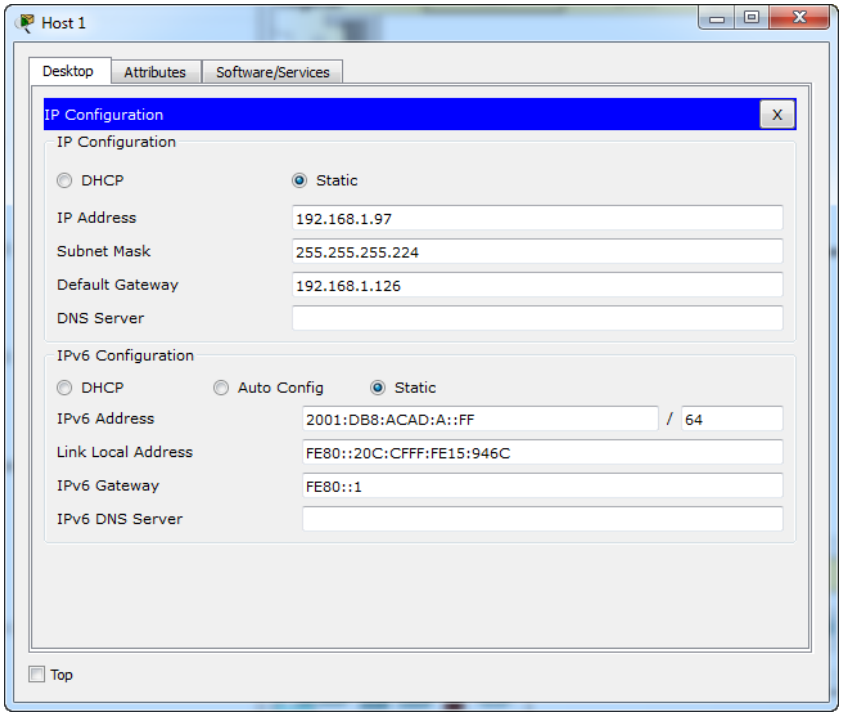
a. Use the IPv4 addressing from Step 1 and the IPv6 addressing values provided in the addressing table to configure all host PCs with the correct addressing.
b. Use the router interface link-local address as the IPv6 default gateways on the hosts.

Step 5: Backup the Configuration of the Building 1 Router to TFTP.

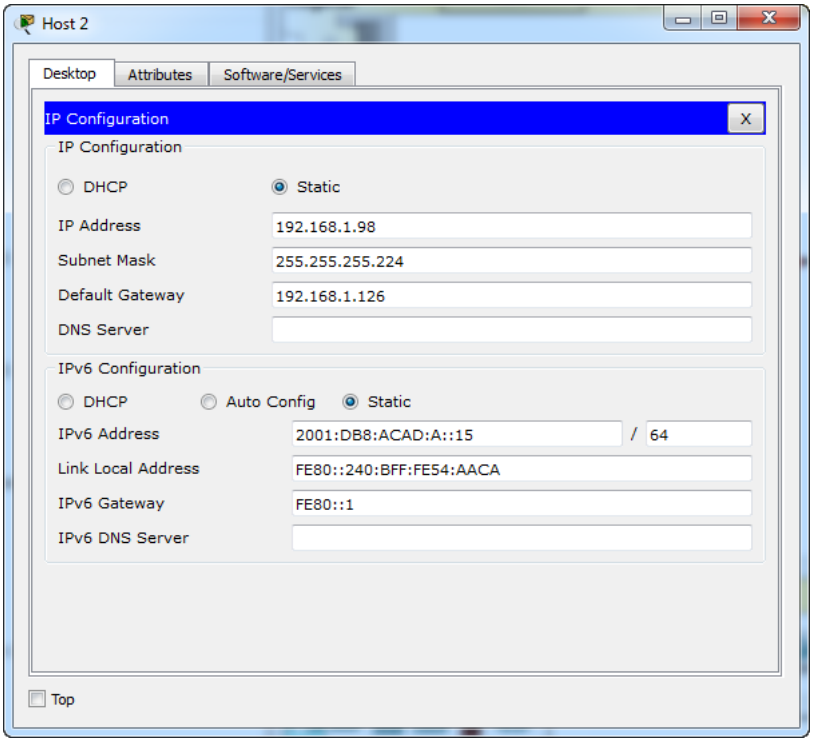
a. Complete the configuration of the TFTP server using the IPv4 addressing values from Step 1 and the values in the addressing table.
b. Backup the running configuration of **Building 1** to the **TFTP Server**. Use the default file name.

Answers

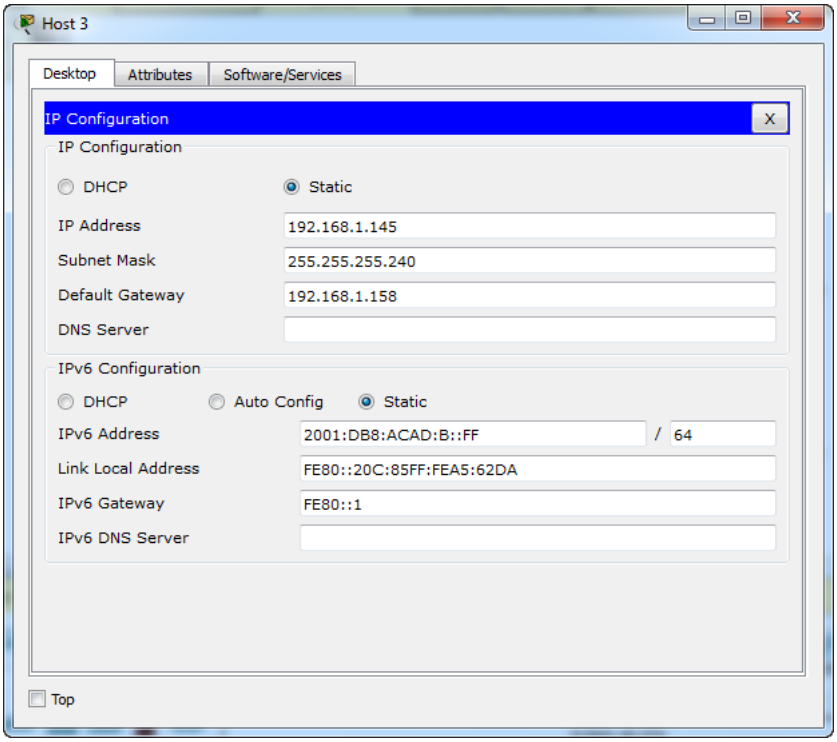
Host 1
IPv4 192.168.1.97 255.255.255.224
GWv4 192.168.1.126
IPv6 2001:DB8:ACAD:A::FF/64
GWv6 FE80::1



Host 2
IPv4 192.168.1.98 255.255.255.224
GWv4 192.168.1.126
IPv6 2001:DB8:ACAD:A::15/64
GWv6 FE80::1

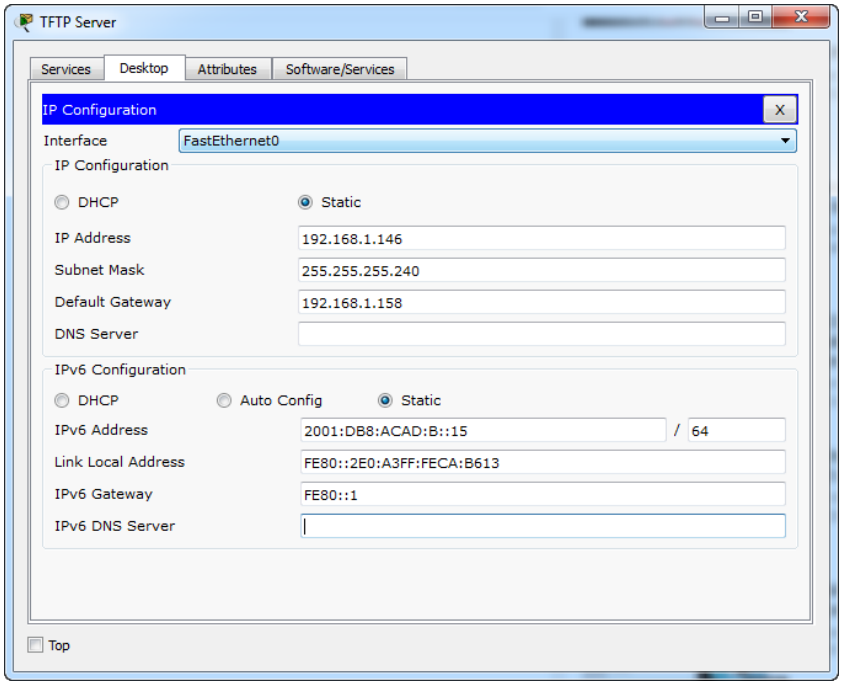


Host 3
IPv4 192.168.1.145 255.255.255.240
GWv4 192.168.1.158
IPv6 2001:DB8:ACAD:B::FF/64
GWv6 FE80::1



TFTP Server
IPv4 192.168.1.146 255.255.255.240
GWv4 192.168.1.158

IPv6 2001:DB8:ACAD:B::15/64
GWv6 FE80::1



Building 1 Router

Use line console to connect Host 1 and Building 1 Router. On Host 1, go to "Desktop Tab" --> choice "Terminal"

```
Router>en
Router#conf terminal
Router(config)#hostname Middle
Middle(config)#enable secret class12345
Middle(config)#service password-encryption
Middle(config)#banner motd $This is Router$
Middle(config)#security passwords min-length 10
Middle(config)#login block-for 120 attempts 2 within 30
Middle(config)#no ip domain-lookup
Middle(config)#ip domain-name ccnav6.com
Middle(config)#crypto key generate rsa
The name for the keys will be: Middle.ccnav6.com
How many bits in the modulus [512]: 1024

Middle(config)#line console 0
Middle(config-line)#password cisco12345
Middle(config-line)#login
Middle(config-line)#logging synchronous
Middle(config-line)#exec-timeout 60
Middle(config-line)#exit

Middle(config)#line vty 0 4
Middle(config-line)#password cisco12345
Middle(config-line)#transport input ssh
Middle(config-line)#login local
Middle(config-line)#logging synchronous
Middle(config-line)#exec-timeout 60
Middle(config-line)#exit

Middle(config)#line aux 0
Middle(config-line)#password cisco12345
Middle(config-line)#login
Middle(config-line)#logging synchronous
Middle(config-line)#exec-timeout 60
Middle(config-line)#exit

Middle(config)#ip ssh version 2
```

```
Middle(config)#ip ssh time-out 120
Middle(config)#username netadmin privilege 15 secret Cisco_CCNA5

Middle(config)#interface g0/0
Middle(config-if)#ip address 192.168.1.126 255.255.255.224
Middle(config-if)#description First Floor LAN
Middle(config-if)#ipv6 address 2001:DB8:ACAD:A::1/64
Middle(config-if)#ipv6 address fe80::1 link-local
Middle(config-if)#no shutdown
Middle(config-if)#exit

Middle(config)#interface g0/1
Middle(config-if)#ip address 192.168.1.158 255.255.255.240
Middle(config-if)#description Second Floor LAN
Middle(config-if)#ipv6 address 2001:DB8:ACAD:B::1/64
Middle(config-if)#ipv6 address fe80::1 link-local
Middle(config-if)#no shutdown
Middle(config-if)#exit
Middle(config)#ipv6 unicast-routing
Middle(config)#exit
Middle#write

Middle#copy running-config tftp:
Address or name of remote host []? 192.168.1.146
Destination filename [Middle-confg]?
Press Enter
```


Building 1 Router

Use line console to connect Host 3 and Second Floor Switch. On Host 3, go to "Desktop Tab" --> choice "Terminal"

```
Switch_2>enable
Switch_2#conf terminal
Switch_2(config)#enable secret class12345
Switch_2(config)#service password-encryption
Switch_2(config)#banner motd $Second Floor Switch$
Switch_2(config)#no ip domain-lookup

Switch_2(config)#line console 0
Switch_2(config-line)#password cisco12345
Switch_2(config-line)#login
Switch_2(config-line)#logging synchronous
Switch_2(config-line)#exec-timeout 60
Switch_2(config-line)#exit

Switch_2(config)#line vty 0 15
Switch_2(config-line)#password cisco12345
Switch_2(config-line)#login
Switch_2(config-line)#logging synchronous
Switch_2(config-line)#exec-timeout 60
Switch_2(config-line)#exit

Switch_2(config)#interface vlan 1
Switch_2(config-if)#ip address 192.168.1.157 255.255.255.240
Switch_2(config-if)#no shutdown

Switch_2(config-if)#ip default-gateway 192.168.1.158
Switch_2(config)#exit
Switch_2#write
```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Brian

Thank you so much for your very helpful web page. You have really gave me so much more insight into CCNA I appreciate it

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rata

good bro 😉

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Sam

where does the link local address ipv6 come from?

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Prabhas Raj

Thanks so much this website has helped me and so many people! You rock!!! =D

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Alty

Thanks, this helped me alot!!! By any chance do you guys have the final PT exam?

November 12, 2017

Louis

GRACIAS, DE GRAN AYUDA!!!!

December 7, 2017

Abhi

I did all the commands, but still gets score reduced for LAN 1 IPv4 Host Addressing Design and Implementation.
The assessment is:
Network:[[PC1Name]]:Ports:FastEthernet0:IP Address Incorrect
Network:[[PC2Name]]:Ports:FastEthernet0:IP Address Incorrect
Can anyone tell me which commands are missing to get this error?
Also how can we configure fast ethernet in switch.
Thank You

December 7, 2017

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