CCNA 3 - ENSA Practice PT Skills Assessment (PTSA) Answers

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CCNAv7 Enterprise Networking, Security, and Automation v7.0 (ENSA)

ENSA Practice PT Skills Assessment (PTSA)

Update May-2021 - 100% Scored

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.

Topology

ENSA Practice PT Skills Assessment (PTSA) ENSA Practice PT Skills Assessment (PTSA)

Addressing Table

)
1
4

	G0/0/1	10.10.1.18/29
BD-3	G0/0/0	192.168.22.1/24
	G0/0/1	10.10.1.19/29
PP-1	G0/0/0	192.168.66.1/30
	S0/1/0	10.10.0.249/30
	S0/1/1	10.10.0.241/30
	S0/2/0	10.10.0.238/30
PP-2	G0/0/0	192.168.33.1/28
	S0/1/0	10.10.0.245/30
	S0/1/1	10.10.0.242/30
PP-3	G0/0/0	192.168.44.1/24
	G0/0/1	192.168.55.1/24
	S0/1/0	10.10.0.250/30
	S0/1/1	10.10.0.246/30
PC-1	NIC	192.168.11.11/24
PC-2	NIC	192.168.22.22/24
PC-3	NIC	192.168.44.44/24
Admin Server	NIC	192.168.33.14/28
Internal Server	NIC	192.168.11.100
Laptop	NIC	192.168.55.55/24
Internet Server	NIC	203.0.113.100

Introduction

You are completing the configuration of the Ocisc LLC network.

You are not required to configure host addressing.

You will practice and be assessed on the following skills:

- · Configuration of OSPFv2 routing
- Customization of OSPF.
- · Configuration of static NAT.
- Configuration of dynamic NAT with PAT.
- · Configuration of various types of ACLs.
- Configuration of a router with NTP as a system time source.
- Backing up an IOS image to a TFTP server.

Instructions

Part 1: Configure OSPF

Step 1: Activate OSPF.

Use process ID 10 for OSPF activation on all routers.

a. Activate OSPF by configuring the interfaces of the network devices in the **Eastern** network, where required.

b. Activate OSPF using network statements and inverse masks on the routers in the Central Network network.

Note: For the purposes of this assessment, please enter the network statements in the following order:

- 1) On Router 4 (PP-1)
 - the Serialo/1/1 network
 - the Serialo/2/0 network
 - the Serialo/1/o network
- 2) On Router 5 (PP-2)

- the Serialo/1/1 network
- the Serialo/1/o network
- the GigabitEtherneto/o/o network

3) On Router 6 (PP-3)

- the Serialo/1/o network
- the Serialo/1/1 network
- the GigabitEtherneto/o/o network
- the GigabitEtherneto/o/1 network

Step 2: Configure router IDs.

Configure router IDs on the multiaccess network routers as follows:

BD-1: 9.9.9.9BD-2: 8.8.8.8BD-3: 7.7.7.7

Step 3: Customize OSPF operation.

- a. Configure router BD-1 with the highest OSPF interface priority so that it will always be the designated router of the multiaccess network.
- b. On router BD-1, configure a default route to the ISP cloud using the exit interface command argument.
- · c. Automatically distribute the default route to all routers in the network.
- d. Configure the hello and dead timer values on the interfaces that connect BD-1 and PP-1 to be twice the default values.
- e. Configure the OSPF routers so that the default cost value for all Gigabit Ethernet interfaces will be 10 and the cost value for Fast Ethernet will be 100.
- f. Configure the OSPF cost value of PP-1 interface Serialo/1/1 to 50.
- · g. Configure OSPF so that routing updates are not sent into networks where OSPF updates are not required.

Part 2: Configure NAT

In this part of the practice skills assessment, you will configure static and dynamic NAT at the network edge.

Step 1: Configure static NAT

Configure static NAT to translate the address of the **Internal Server** on LAN-1 to the public address of **192.0.2.115**. Verify that the translations are occurring.

Step 2: Configure dynamic PAT.

- a. Create access list 1 to allow all addresses in the 192.168.0.0/16 network to be translated.
- b. Create a NAT pool named POOL-1. It should use address in the range 192.0.2.116-192.0.2.118.
- c. Configure NAT to dynamically use the addresses in the pool for all traffic entering and exiting the company network. Remember that it is likely that more than three hosts will be accessing traffic on the Internet.

Part 3: Configure ACLs

Configure access control lists to meet the following requirements.

Note: Use **host** and **any** keywords whenever possible. Always explicitly configure the default deny condition when it is to be used as part of the ACL functionality so that it can be logged when the condition is met. You do not need to specify the default deny condition if it is counteracted with **permit ip any any** for this assessment. All ACLs should be placed in the most efficient location possible according to the guidelines specified in the curriculum.

- a. Create a named standard access list to explicitly prevent all external traffic accessing the telnet lines on RTR-1. Name the list **VTY-BLOCK**. All addresses on the 192.168.0.0/16 network only should be allowed to access the VTY lines. Verify that the list works as specified.
- b. Create a numbered standard ACL to prevent all hosts on LAN 1 from accessing LAN 2. Use 10 as the number for the list.
- c. Create an extended numbered ACL that will prevent traffic from the LAN 4 network from accessing the HTTP service that is running on **Admin Server**. All other traffic from LAN 4 hosts should be able to access the network. Number the list **101**.

Part 4: Manage Network Devices

Step 1: Configure NTP

Configure router PP-2 to use Admin Server as its time source.

Step 2: Backup IOS to Server

Backup the IOS image file on router PP-2 to Admin Server.

Answers Script:

Router 1 possible names: BD-1; RTR-1; RTR-A

```
enable
configure ter
router ospf 10
exit
interface g0/0/0
ip ospf 10 area 0
interface s0/1/0
ip ospf 10 area 0
exit
router ospf 10
router-id 9.9.9.9
exit
int g0/0/0
ip ospf priority 255
exit
ip route 0.0.0.0 0.0.0.0 s0/1/1
router ospf 10
default-information originate
exit
int s0/1/0
ip ospf hello-interval 20
ip ospf dead-interval 80
exit
router ospf 10
auto-cost reference-bandwidth 10000
exit
router ospf 10
passive-interface s0/1/1
ip nat inside source static 192.168.11.100 192.0.2.115
int s0/1/1
ip nat outside
int g0/0/0
ip nat inside
exit
access-list 1 permit 192.168.0.0 0.0.255.255
ip nat pool POOL-1 192.0.2.116 192.0.2.118 netmask 255.255.255.248
ip nat inside source list 1 pool POOL-1 overload
int s0/1/0
ip nat inside
ip access-list standard VTY-BLOCK
permit 192.168.0.0 0.0.255.255
deny any
exit
line vty 0 4
access-class VTY-BLOCK in
exit
copy running-config startup-config
```

Router 2 possible names: BD-2; RTR-2; RTR-B

```
enable
configure terminal
router ospf 10
exit
interface g0/0/0
ip ospf 10 area 0
interface g0/0/1
ip ospf 10 area 0
router ospf 10
router-id 8.8.8.8
exit
router ospf 10
auto-cost reference-bandwidth 10000
router ospf 10
passive-interface g0/0/0
exit
end
copy running-config startup-config
```

Router 3 possible names: BD-3; RTR-3; RTR-C

```
enable
configure terminal
router ospf 10
exit
interface g0/0/0
ip ospf 10 area 0
interface g0/0/1
ip ospf 10 area 0
exit
router ospf 10
router-id 7.7.7.7
exit
router ospf 10
auto-cost reference-bandwidth 10000
router ospf 10
passive-interface g0/0/0
exit
access-list 10 deny 192.168.11.0 0.0.0.255
access-list 10 permit any
int g0/0/1
ip access-group 10 in
exit
end
copy running-config startup-config
```

Router 4 possible names: PP-1; RTR-4; RTR-D

```
enable
configure terminal
router ospf 10
network 10.10.0.240 0.0.0.3 area 0
network 10.10.0.236 0.0.0.3 area 0
network 10.10.0.248 0.0.0.3 area 0
exit
int s0/2/0
ip ospf hello-interval 20
ip ospf dead-interval 80
exit
router ospf 10
auto-cost reference-bandwidth 10000
exit
int s0/1/1
ip ospf cost 50
exit
router ospf 10
passive-interface g0/0/0
exit
copy running-config startup-config
```

Router 5 possible names: PP-2; RTR-5; RTR-E

enable
configure terminal
router ospf 10
network 10.10.0.240 0.0.0.3 area 0
network 10.10.0.244 0.0.0.3 area 0
network 192.168.33.0 0.0.0.15 area 0
exit

router ospf 10
auto-cost reference-bandwidth 10000
exit

router ospf 10
passive-interface g0/0/0
exit

ntp server 192.168.33.14
exit

copy running-config startup-config

Router 6 possible names: PP-3; RTR-6; RTR-F

```
enable
configure terminal
router ospf 10
network 10.10.0.248 0.0.0.3 area 0
network 10.10.0.244 0.0.0.3 area 0
network 192.168.44.0 0.0.0.255 area 0
network 192.168.55.0 0.0.0.255 area 0
exit
router ospf 10
auto-cost reference-bandwidth 10000
exit
router ospf 10
passive-interface g0/0/0
passive-interface g0/0/1
access-list 101 deny tcp any host 192.168.33.14 eq www
access-list 101 permit ip any any
int g0/0/0
ip access-group 101 in
end
copy running-config startup-config
```

Part 4, step 2 (Router 5 possible names: PP-2; RTR-5; RTR-E)

Note: IOS image file (.bin file) name may be different

```
PP-2*enable
PP-2*show flash:

System flash directory:
File Length Name/status
3    486899872isr4300-universalk9.03.16.05.S.155-3.S5-ext.SPA.bin
2    28282    sigdef-category.xml
1    227537    sigdef-default.xml
[487155691 bytes used, 2761893909 available, 3249049600 total]
3.17338e+06K bytes of processor board System flash (Read/Write)

PP-2#copy flash tftp
Source filename []? isr4300-universalk9.03.16.05.S.155-3.S5-ext.SPA.bin
Address or name of remote host []? 192.168.33.14
Destination filename [isr4300-universalk9.03.16.05.S.155-3.S5-ext.SPA.bin]? [Press Enter]
```

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