



CCIE Security v3.0 Configuration Practice Labs, Second Edition

Yusuf Bhaiji

ciscopress.com

Chapter 1 Practice Lab #14

Chapter 2 Practice Lab #2262

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Practice Lab 1

Section 1.0: Core Configuration (20 Points)

Question 1.1: Initializing the ASA1 firewall (5 points)

Initialize the ASA1 firewall, meeting all the following requirements:

- Configure the ASA1 firewall in multicontext routed mode, as shown in Figure 1-3.
- Configure hostname “ASA1” and enable password “cisco.”
- Create three contexts, as shown in Tables 1-4 through 1-8.
- Context names are case-sensitive. Use exact names and numbers, as shown in the tables.
- Assign context “admin” as the admin-context.
- Assign interfaces as shown in the tables. Map physical interface names to logical names.
- Configure IP addresses and all other initialization parameters as shown in the tables.
- Configure static and default routes within context as shown in the tables. You can also refer to Figure 1-4 and Table 1-3 for more information.
- To perform basic verification using ping tests throughout this Practice Lab, you are allowed to permit **icmp any any** in your ACL in both contexts on ASA1.
- Ensure that you can ping all the interfaces, including loopbacks on Sw1 from context abc1.
- Ensure that you can ping all the interfaces, including loopbacks on R1 and R2 from context abc2.

Practice Lab 1

TABLE 1-4 Context name **admin**

Assign Physical Interface	Logical Name	VLAN	Save Config
Management0/0	mgmt	—	disk0:/admin

TABLE 1-5 Context name **abc1**

Assign Physical Interface	Logical Name	VLAN	Save Config
Ethernet0/0	outside	101	disk0:/abc1
Ethernet0/3	inside	—	

TABLE 1-6 Context name **abc2**

Assign Physical Interface	Logical Name	VLAN	Save Config
Ethernet0/2	outside	201	disk0:/abc2
Ethernet0/1.1	inside	3	
Ethernet0/1.2	dmz2	4	

TABLE 1-7 Context initialization details

Context	Interface	IP Address/Mask	Nameif	Security Level
admin	mgmt	None	mgmt	100
abc1	outside	192.168.7.10/24	outside	0
	inside	192.168.8.10/24	inside	100
abc2	outside	192.168.6.10/24	outside	0
	inside	192.168.3.10/24	inside	100
	dmz2	192.168.4.10/24	dmz2	50

TABLE 1-8 IP routing initialization details

Context	Route Type	Network Prefix(es)	Next Hop
abc1	Configure Default route on outside interface	0.0.0.0/0	192.168.7.11 (R6)
	Configure Static routes on inside interface	10.7.7.0/24 172.16.1.0/24	192.168.8.11 (Sw1)
abc2	Configure Default route on outside interface	0.0.0.0/0	192.168.6.11 (R6)
	Configure Static routes on inside interface	10.1.1.0/24 192.168.2.0/24	192.168.3.11 (R1)
	Configure Static routes on dmz2 interface	10.2.2.0/24 192.168.5.0/24	192.168.4.11 (R2)

Question 1.2: Initializing the ASA2 firewall (5 points)

Initialize the ASA2 firewall, meeting all the following requirements:

- Configure the ASA2 firewall in single-routed mode, as shown in Figure 1-3.
- Configure hostname “ASA2” and enable password “cisco.”
- Configure a redundant interface on ASA2 as shown in Tables 1-9 and 1-10. Ensure that interface Ethernet0/0 is the active member interface.
- Configure IP addresses and all other initialization parameters as shown in Tables 1-9 through 1-11.
- Configure static and default routes as shown in the tables. You can also refer to Figure 1-4 and Table 1-3 for more information.
- Ensure that OSPF and EIGRP adjacencies are established (as per Figure 1-4) after you complete the ASA2 initialization. R3, R4, and Sw2 have been preconfigured for IP routing.
- To perform basic verification using ping tests throughout this Practice Lab, you are allowed to permit **icmp any any** in your ACL on ASA2.
- Ensure that you can ping all the interfaces, including loopbacks on R3, R4, and Sw2 from ASA2.