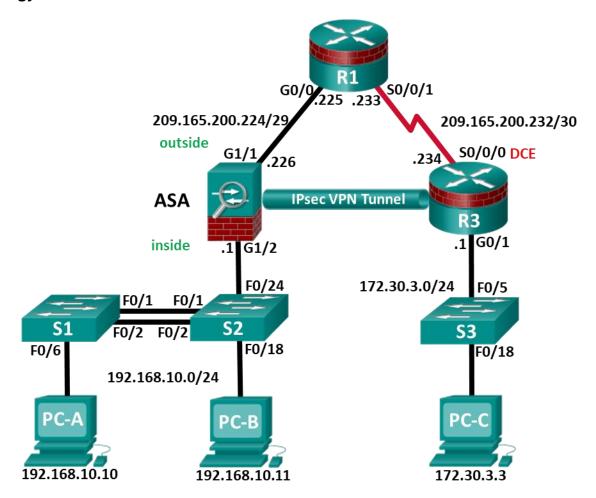


Skills Assessment Using ASA 5506-X – Form B (Answer Key)

Instructor Note: Red font color or gray highlights indicate text that appears in the instructor copy only.

Topology



Assessment Objectives

Part 1: Verify Network Connectivity (1 points, 5 minutes)

Note: Basic configuration is completed by the instructor in preparation for the exam.

Part 2: Configure Secure Router Administrative Access (17 points, 15 minutes)

Part 3: Configure a Zone-Based Policy Firewall (14 points, 10 minutes)

Part 4: Secure Layer 2 Switches (22 points, 20 minutes)

Part 5: Configure ASA Basic Management and Firewall Settings (18 points, 15 minutes)

Part 6: Configure a Site-To-Site IPsec VPN (28 points, 25 minutes)

Scenario

This Skills Assessment (SA) is the final practical exam of student training for the CCNA Security course. The exam is divided into six parts. The parts should be completed sequentially and signed off by your instructor before moving on to the next part. In Part 1 you will verify that the basic device settings have been preconfigured by the instructor. In Part 2, you will secure a network router using the command-line interface (CLI) to configure various IOS features including AAA and SSH. In Part 3, you will configure zone-based policy firewall (ZPF) on an integrated service router (ISR) using the CLI. In Part 4, you will configure and secure Layer 2 switches using the CLI. In Part 5, you will configure the ASA management and firewall settings using the CLI. In Part 6, you will configure a site-to-site IPsec VPN between R3 and the ASA using the CLI and ASDM.

Instructor Note: The routers used in this SA are Cisco 1941 ISRs with Cisco IOS Release 15.4(3)M2 (universalk9 image). Other routers and Cisco IOS versions can be used. Depending on the model and Cisco IOS version, the commands available and output produced might vary from what is shown in this SA. Refer to the Router Interface Summary table at the end of this SA for the correct interface identifiers.

Instructor Note: Sample scoring and estimated times for each exam are provided. These can be adjusted by the instructor as necessary to suit the testing environment. Total points for the exam are 100 and total time is estimated at 90 minutes. The instructor may elect to deduct points if excessive time is taken for a part of the assessment.

Required Resources

- 2 Routers (Cisco 1941 with Cisco IOS Release 15.4(3)M2 image with a Security Technology Package license)
- 3 Switches (Cisco 2960 with cryptography IOS image for SSH support Release 15.0(2)SE7 or comparable)
- 1 ASA 5506-X (OS version 9.10(1) and ASDM version 7.10(1) and Base license or comparable)
- 3 PCs (Windows, SSH Client and Java version compatible with installed ASDM version)
- Console cable to configure the Cisco IOS devices via the console ports
- Ethernet and Serial cables as shown in the topology

Instructor Notes:

Router Resource Requirements:

Note: The following requirements are critical to successful completion of this SA.

Instructor Note: In the interest of time, the instructor should pre-configure the basic device settings. Basic configurations are provided below for R1 and R3. Static IP address settings have also been provided for the PC hosts.

R1 Startup Configuration

```
hostname R1
no ip domain lookup
interface GigabitEthernet0/0
ip address 209.165.200.225 255.255.255.248
no shutdown
interface Serial0/0/1
ip address 209.165.200.233 255.255.252
no shutdown
ip route 172.30.3.0 255.255.255.0 209.165.200.234
```

```
ntp authentication-key 1 md5 NTPpassword
ntp trusted-key 1
ntp authenticate
ntp master 3
end
```

R3 Startup Configuration

```
hostname R3
no ip domain lookup
interface G0/1
  ip address 172.30.3.1 255.255.255.0
  no shut
int S0/0/0
  ip address 209.165.200.234 255.255.255.252
  no shutdown
ip route 0.0.0.0 0.0.0.0 209.165.200.233
end
```

S1 Startup Configuration

```
hostname S1
no ip domain lookup
spanning-tree vlan 1 root primary
interface range f0/3-5, f0/7-24, g0/1-2
shutdown
end
```

S2 Startup Configuration

```
hostname S2
no ip domain lookup
spanning-tree vlan 1 root secondary
end
```

PC-A

```
IP Address: 192.168.10.10
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.10.1
```

PC-B

```
IP Address: 192.168.10.11
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.10.1
```

PC-C

```
IP Address: 172.30.3.3
Subnet Mask: 255.255.255.0
```

Default Gateway: 172.30.3.1

Part 1: Verify Network Connectivity

Total points: 17
Time: 15 minutes

In the interest of time, your instructor has pre-configured basic settings on R1 and R3, and the static IP address information for the PC hosts in the topology. In Part 1, you will verify that PC-C can ping the G0/1 interface on R3.

Configuration Task	Specification	Points
Ping the G0/1 interface on R3 from PC-C.	See Topology for specific settings.	1/2
Ping the S0/0/1 interface on R1 from R3.	See Topology for specific settings.	1/2

Instructor Signature	n-Off Part 1:
Points:	of 1
Note: Do not	proceed to Part 2 until your instructor has signed off on Part 1

Part 2: Configure Secure Router Administrative Access

Total points: 17
Time: 15 minutes

In Part 2, you will secure administrative access on router R3 using the CLI. Configuration tasks include the following:

Configuration Item or Task	Specification	Points
Set minimum password length.	Minimum Length: 10 characters	1
Assign and encrypt a privileged EXEC password.	Password: cisco12345 Encryption type: 9 (scrypt)	1
Add a user in the local database for administrator access	Username: Admin01 Privilege level: 15 Encryption type: 9 (scrypt) Password: admin01pass	1
Configure MOTD banner.	Unauthorized Access is Prohibited!	1/2
Disable HTTP server services.		1/2
Configure SSH.	Domain name: ccnassecurity.com RSA Keys size: 1024 Version: 2 Timeout: 90 seconds Authentication retries: 2	4
Configure VTY lines to allow SSH access.	Allow only SSH access.	1

Configuration Item or Task	Specification	Points
Configure AAA authentication and authorization settings.	Enable AAA Use local database as default setting.	2
Configure NTP.	Authentication Key: NTPpassword Encryption: MD5 Key: 1 NTP Server: 209.165.200.233 Configure for periodic calendar updates.	4
Configure syslog.	Enable timestamp service to log the date and time in milliseconds. Send syslog messages to: 172.30.3.3 Set message logging severity level: Warnings	2

Configuration Item or Task	Configuration Commands	Verification Commands
Set minimum password length.	security passwords min-length 10	show run inc passwords
Assign and encrypt a privileged EXEC password.	enable algorithm-type scrypt secret cisco12345	show run inc enable Verify encryption type 9.
Add a user in the local database for administrator access.	username Admin01 privilege 15 algorithm-type scrypt secret admin01pass	show run include username Verify Username, Privilege level, and encryption type. The password can be verified.
Configure MOTD banner.	banner motd \$Unauthorized Access is Prohibited!\$	show run inc banner
Disable HTTP server services.	no ip http server	show run inc http
Configure SSH.	ip domain-name ccnasecurity.com crypto key generate rsa general-keys modulus 1024 ip ssh version 2 ip ssh time-out 90 ip ssh authentication-retries 2	show ip ssh
Configure VTY lines to allow SSH access.	line vty 0 4 transport input ssh exit	show run sec vty

Configuration Item or Task	Configuration Commands	Verification Commands
	aaa new-model	
Configure AAA	aaa authentication login default local	
authentication and authorization settings.	aaa authorization exec default local	show run inc aaa
	ntp authentication-key 1 md5 NTPpassword	
	ntp authenticate	
	ntp server 209.165.200.233	show ntp associations
Configure NTP.	ntp update-calendar	show run sec ntp
	service timestamps log datetime msec	
	logging 172.30.3.3	show run sec logging
Configure syslog.	logging trap warnings	show logging

Note. Deloie	proceeding to Fa	it 3, ask your mstructor to verify	No 8 configuration and functionality.
Instructor Sig	gn-Off Part 2:		
Points:	of 17		

Part 3: Configure a Zone-Based Policy Firewall

Total points: 14
Time: 10 minutes

In Part 3, you will configure a zone-based policy firewall on R3 using the CLI. Configuration tasks include the following:

Configuration Item or Task	Specification	Points
Create security zone names.	Inside zone name: INSIDE Outside zone name: INTERNET	2
Create an inspect class map.	Class map name: INSIDE_PROTOCOLS Inspection type: match-any Protocols allowed: tcp, udp, icmp	3
Create an inspect policy map.	Policy map name: INSIDE_TO_INTERNET Bind the class map to the policy map. Matched packets should be inspected.	3
Create a zone pair.	Zone pair name: IN_TO_OUT_ZONE Source zone: INSIDE Destination zone: INTERNET	2
Apply the policy map to the zone pair.	Zone pair name: IN_TO_OUT_ZONE Policy map name: INSIDE_TO_INTERNET	2
Assign interfaces to the proper security zones.	Interface G0/1: INSIDE Interface S0/0/0: INTERNET	2

Configuration Item or Task	Configuration Commands	Verification Commands
Create security zone names.	zone security INSIDE zone security INTERNET	show run section zone security
Create an inspect class map.	class-map type inspect match-any INSIDE_PROTOCOLS match protocol tcp match protocol udp match protocol icmp	show class-map type inspect
Create an inspect policy map.	policy-map type inspect INSIDE_TO_INTERNET class type inspect INSIDE_PROTOCOLS inspect	show policy-map type inspect
Create a zone pair.	zone-pair security IN_TO_OUT_ZONE source INSIDE destination INTERNET	show zone-pair security
Apply the policy map to the zone pair.	zone-pair security IN_TO_OUT_ZONE service-policy type inspect INSIDE_TO_INTERNET	show zone-pair security
Assign interfaces to the proper security zones.	interface g0/1 zone-member security INSIDE interface s0/0/0 zone-member security INTERNET	show zone security

Troubleshoot as necessary to correct any issues discovered.

Note : Before proceeding to Part 4, ask your instructor to v	erify your Z	PF configuration a	nd functionality
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Instructor Sign-Off Part 2:	
<u> </u>	

Points: _____ of 14

Part 4: Secure Layer 2 Switches

Total points: 22
Time: 20 minutes

Note: Not all security features in this part of the exam will be configured on all switches. However, in a production network, all security feature will be configured on all switches. In the interest of time, the security features are configured on just S2, except where noted.

In Part 4, you will configure security settings on the indicated switch using the CLI. Configuration tasks include the following:

Configuration Item or Task	Specification	Points
Assign and encrypt a privileged EXEC password.	Switch: S2 Password: cisco12345 .	1/2
password.	Encryption type: 9 (scrypt)	

Configuration Item or Task	Specification	Points
Add a user in the local database for administrator access	Switch: S2 Username: Admin01 Privilege level: 15 Encryption type: 9 (scrypt) Password: admin01pass	1
Configure MOTD banner.	Switch: S2 Banner: Unauthorized Access is Prohibited!	1/2
Disable HTTP and HTTP secure server.	Switch: S2	1
Configure SSH.	Switch: S2 Domain name: ccnassecurity.com RSA Keys size: 1024 Version: 2 Timeout: 90 seconds Authentication retries: 2	2
Configure VTY lines to allow SSH access.	Switch: S2 Allow SSH access only.	1/2
Configure AAA authentication and authorization settings.	Switch: S2 Enable AAA Use local database as default setting	2
Create VLAN list.	Switches: S1 & S2 VLAN: 2 , Name: NewNative VLAN: 10 , Name: LAN VLAN: 99 , Name: Blackhole	1/2
Configure trunk ports.	Switches: S1 & S2 Interfaces: F0/1, F0/2 Native VLAN: 2 Prevent DTP.	2
Disable trunking.	Switch: S2 Ports: F0/18, F0/24 VLAN assignment: 10	2
Enable PortFast and BPDU guard.	Switch: S2 Ports: F0/18 , F0/24	2
Configure basic port security.	Switch: S2 Port: F0/18 Maximum limit: 1 Remember MAC Address Violation Action: Shutdown	3

Configuration Item or Task	Specification	Points
Disable unused ports on S2, and assign ports to VLAN 99.	Switch: S2 Ports: F0/3-17, F0/19-23, G0/1-2	1
Configure Loop guard.	Switch: S2 Loop guard: Default	1
Configure DHCP snooping.	Enable DHCP Snooping globally Enable DHCP for VLAN: 10 DHCP trusted interface: F0/24	3

NETLAB+ Note: Use a Maximum limit of **2** when configuring basic port security. Otherwise, the hidden Control Switch will cause a violation to occur and the port will be shutdown.

Configuration Item or Task	Configuration Commands	Verification Commands
Assign and encrypt a privileged EXEC password. (Switch: S2 only)	enable algorithm-type scrypt secret cisco12345	show run inc enable Verify encryption type 9.
Add a user in the local database for administrator access. (Switch: S2 only)	username Admin01 privilege 15 algorithm-type scrypt secret admin01pass	show run include username Verify username, privilege level, and encryption type. The password can be verified.
Configure MOTD banner. (Switch: S2 only)	banner motd \$Unauthorized Access is Prohibited!\$	show run inc banner
Disable HTTP and HTTP secure server. (Switch: S2 only)	no ip http server no ip http secure-server	show run inc http
Configure SSH. (Switch: S2 only)	ip domain-name ccnasecurity.com crypto key generate rsa general-keys modulus 1024 ip ssh version 2 ip ssh time-out 90 ip ssh authentication-retries 2	show ip ssh
Configure VTY lines to allow SSH access. (Switch: S2 only)	line vty 0 15 transport input ssh exit	show run sec vty

Configuration Item or Task	Configuration Commands	Verification Commands
Configure AAA authentication and authorization settings. (Switch: S2 only)	aaa new-model aaa authentication login default local aaa authorization exec default local	show run inc aaa
Create VLAN list. (Switch: S1 & S2)	vlan 2 name NewNative vlan 10 name LAN vlan 99 name Blackhole exit	show vlan
Configure trunk ports. (Switch: S1 & S2)	interface range f0/1-2 switchport mode trunk switchport trunk native vlan 2 switchport nonegotiate	show run beg interface
Disable trunking. (Switch: S2 only)	interface ran f0/18, f0/24 switchport mode access switchport access vlan 10	show run interface f0/18 show run interface f0/24
Enable PortFast and BPDU guard. (Switch: S2 only)	interface ran f0/18, f0/24 spanning-tree portfast spanning-tree bpduguard enable	show run interface f0/18 show run interface f0/24
Configure basic port security. (Switch: S2 only)	Interface f0/18 switchport port-security switchport port-security maximum 1 switchport port-security mac-address sticky switchport port-security violation shutdown	show port-security interface fa0/18
Disable unused ports on S2, and assign ports to VLAN 99. (Switch: S2 only)	interface range f0/3-17, f0/19-23, g0/1-2 switchport mode access switchport access vlan 99 shutdown	show ip interface brief (Determine whether interfaces are administratively down.)
Configure Loop guard. (Switch: S2 only)	spanning-tree loopguard default	show spanning-tree summary (Determine whether Loopguard Default is enabled.)

Configuration Item or Task	Configuration Commands	Verification Commands
Configure DHCP snooping. (Switch: S2 only)	ip dhcp snooping ip dhcp snooping vlan 10 int f0/24 ip dhcp snooping trust end	show ip dhcp snooping

Troubleshoot as necessary to correct any issues discovered.

Note: Before proceeding to Part 5, ask your instructor to verify your switch configuration and functionality.

Instructor Sign-Off Part 4: _____

Points: _____ of 22

Part 5: Configure ASA Basic Management and Firewall Settings

Total points: 18
Time: 15 minutes

Note: By default, the privileged EXEC password is blank. Press Enter at the password prompt.

In Part 5, you will configure the ASA's basic setting and firewall using the CLI. Configuration tasks include the following:

Configuration Item or Task	Specification	Points
Configure the ASA hostname.	Name: CCNAS-ASA	1/2
Configure the domain name.	Domain Name: ccnasecurity.com	1/2
Configure the privileged EXEC password.	Password: cisco12345	1/2
Add a user to the local database for administrator console access.	User: Admin01 Password: admin01pass	1/2
Configure AAA to use the local database for SSH user authentication for console access.		1
Configure interface G1/2.	Name: inside IP address: 192.168.10.1 Subnet Mask: 255.255.255.0 Security Level: 100	3
Configure interface G1/1.	Name: outside IP address: 209.165.200.226 Subnet Mask: 255.255.255.248 Security Level: 0 Activate the VLAN	3
Generate an RSA key pair to support the SSH connections.	Key: RSA Modulus size: 1024	1

Configuration Item or Task	Specification	Points
Configure ASA to accept SSH connections from hosts on the inside LAN.	Inside Network: 192.168.10.0/24 Timeout: 10 minutes Version: 2	2
Configure the default route.	Default route IP address: 209.165.200.225	1
Configure ASDM access to the ASA.	Enable HTTPS server services. Enable HTTPS on the inside network.	2
Create a network object to identify internal addresses for PAT. Bind interfaces dynamically by using the interface address as the mapped IP.	Object name: INSIDE-NET Subnet: 192.168.10.0/24 Interfaces: inside, outside	2
Modify the default global policy to allow returning ICMP traffic through the firewall.	Policy-map: global_policy Class: inspection_default Inspect: icmp	1

Configuration Item or Task	Configuration Commands	Verification Commands
Configure the ASA hostname.	hostname CCNAS-ASA	(Look at command prompt to verify CCNAS-ASA name.)
Configure the domain name.	domain-name ccnasecurity.com	show run domain
Configure the privileged EXEC password.	enable password cisco12345	show run enable
Add a user to the local database for administrator console access.	username Admin01 password admin01pass	show run username
Configure AAA to use the local database for SSH user authentication and for console access.	aaa authentication ssh console LOCAL	show run aaa
Configure interface G1/2.	interface g1/2 nameif inside ip add 192.168.10.1 255.255.255.0 security-level 100 no shutdown	show run interface g1/2
Configure interface G1/1.	interface g1/1 nameif outside ip add 209.165.200.226 255.255.255.248 security-level 0 no shutdown	show run interface g1/1

Configuration Item or Task	Configuration Commands	Verification Commands
Generate an RSA key pair to support the SSH connections.	crypto key generate rsa modulus 1024	show crypto key mypubkey rsa
Configure ASA to accept SSH connections from hosts on the inside LAN.	ssh 192.168.10.0 255.255.255.0 inside ssh timeout 10 ssh version 2	show ssh
Configure the default route.	route outside 0.0.0.0 0.0.0.0 209.165.200.225	show route (Look for quad-zero static route.)
Configure ASDM access to the ASA.	http server enable http 192.168.10.0 255.255.255.0 inside	show run http
Create a network object to identify internal addresses for PAT. Bind the interfaces dynamically by using the interface address as the mapped IP.	object network INSIDE-NET subnet 192.168.10.0 255.255.255.0 nat (inside,outside) dynamic interface	show nat show run object
Modify the default global policy to allow returning ICMP traffic through the firewall.	policy-map global_policy class inspection_default inspect icmp	show run policy-map

Troubleshoot as necessary to correct any issues discovered.

Note : Before b	proceeding to Par	t 6, ask your instructor to verify	y your ASA configuration and functionality.
Instructor Sig	n-Off Part 5:		
Points:	of 18		

Part 6: Configure a Site-to-Site VPN

Total points: 28
Time: 25 minutes

In Part 6, you will configure a Site-to-Site IPsec VPN between R3 and the ASA. You will use the CLI to configure R3 and use ASDM to configure the ASA.

Step 1: Configure Site-to-Site VPN on R3 using CLI.

Configuration parameters include the following:

Configuration Item or Task	Specification	Points
Enable IKE.	Note: ISAKMP is enabled by default.	1

Configuration Item or Task	Specification	Points
Create an ISAKMP policy.	ISAKMP Policy Priority: 1 Authentication type: pre-share Encryption: 3des Hash algorithm: sha Diffie-Hellman Group Key Exchange: 2	5
Configure the pre-shared key.	Preshare key: ciscopreshare Address: 209.165.200.226	2
Configure the IPsec transform set.	Tag: TRNSFRM-SET ESP transform: ESP_3DES Hash function: ESP_SHA_HMAC	3
Define interesting traffic.	ACL: 101 Source Network: 172.30.3.0 0.0.0.255 Destination Network: 192.168.10.0 0.0.0.255	1
Create a crypto map.	Crypto map name: CMAP Sequence number: 1 Type: ipsec-isakmp ACL to match: 101 Peer: 209.165.200.226 Transform-set: TRNSFRM-SET	5
Apply crypto map to the interface.	Interface: S0/0/0 Crypto map name: CMAP	1

Configuration Item or Task	Configuration Commands	Verification Commands
Enable IKE.	crypto isakmp enable	show run include crypto
Create an ISAKMP policy.	crypto isakmp policy 1 authentication pre-share encryption 3des hash sha group 2	show crypto isakmp policy
Configure the pre-shared key.	crypto isakmp key ciscopreshare address 209.165.200.226	show run include crypto
Configure the IPsec transform set.	crypto ipsec transform-set TRNSFRM-SET esp-3des esp-sha-hmac	show run include crypto
Define interesting traffic.	access-list 101 permit ip 172.30.3.0 0.0.0.255 192.168.10.0 0.0.0.255	show run inc access-list

Configuration Item or Task	Configuration Commands	Verification Commands
Create a crypto map.	crypto map CMAP 1 ipsec-isakmp match address 101 set transform-set TRNSFRM-SET set peer 209.165.200.226	show crypto map
Apply crypto map to interface.	interface s0/0/0 crypto map CMAP	show crypto map show run interface s0/0/0

Step 2: Configure Site-to-Site VPN on ASA using ASDM

Use a browser on PC-B to establish an ASDM session to the ASA. When the session is established, use the **Site-to-Site VPN Wizard** to configure the ASA for IPsec Site-to-Site VPN. Configuration parameters include the following:

Configuration Item or Task	Specification	Points
Use a browser on PC-B, connect to the ASA, and run ASDM.	Connection: HTTPS IP Address: 192.168.10.1 Username: Admin01 Password: admin01pass Note: You will need to accept all security messages.	2
Use the Site-to-site VPN Wizard to configure the site-to-site VPN settings on the ASA.	Peer IP Address: 209.165.200.234 VPN Access Interface: outside Local Network: inside-network/24 Remote Network: 172.30.3.0/24 Pre-shared Key: ciscopreshare Exempt ASA side/host network from NAT: Enable	5
Ping PC-B from PC-C.	This should generate interesting traffic and start site-to-site VPN.	1/2
Ping PC-C from PC-B.		1/2
Display the ISAKMP and IPsec SAs on R3.	show crypto isakmp sa show crypto ipsec sa (Look for an active session.)	1
Verify that a site-to-site session has been established using ASDM from PC-B.	ASDM Monitoring VPN tab Filter by: IPsec Site-to-Site	1

Troubleshoot as necessary to correct any issues discovered.

Instructor Note: Have the student ping PC-B to demonstrate that PC-C has established an SSL VPN connection to the ASA. The student should also be able to use ASDM on PC-B to display the established VPN session.

Instruct	or Sign-Off Part 6:	
Points:	of 28	

Router Interface Summary

Router Interface Summary				
Router Model	Ethernet Interface #1	Ethernet Interface #2	Serial Interface #1	Serial Interface #2
1800	Fast Ethernet 0/0 (F0/0)	Fast Ethernet 0/1 (F0/1)	Serial 0/0/0 (S0/0/0)	Serial 0/0/1 (S0/0/1)
1900	Gigabit Ethernet 0/0 (G0/0)	Gigabit Ethernet 0/1 (G0/1)	Serial 0/0/0 (S0/0/0)	Serial 0/0/1 (S0/0/1)
2801	Fast Ethernet 0/0 (F0/0)	Fast Ethernet 0/1 (F0/1)	Serial 0/1/0 (S0/1/0)	Serial 0/1/1 (S0/0/1)
2811	Fast Ethernet 0/0 (F0/0)	Fast Ethernet 0/1 (F0/1)	Serial 0/0/0 (S0/0/0)	Serial 0/0/1 (S0/0/1)
2900	Gigabit Ethernet 0/0 (G0/0)	Gigabit Ethernet 0/1 (G0/1)	Serial 0/0/0 (S0/0/0)	Serial 0/0/1 (S0/0/1)

Note: To find out how the router is configured, look at the interfaces to identify the type of router and how many interfaces the router has. There is no way to effectively list all the combinations of configurations for each router class. This table includes identifiers for the possible combinations of Ethernet and Serial interfaces in the device. The table does not include any other type of interface, even though a specific router may contain one. An example of this might be an ISDN BRI interface. The string in parenthesis is the legal abbreviation that can be used in Cisco IOS commands to represent the interface.

Device Configs

Router R1 (Initial Configuration)

```
R1#sh run
Building configuration...
Current configuration: 1582 bytes
!
version 15.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
hostname R1
boot-start-marker
boot-end-marker
no aaa new-model
memory-size iomem 15
no ip domain lookup
ip cef
no ipv6 cef
```

```
multilink bundle-name authenticated
cts logging verbose
redundancy
interface Embedded-Service-Engine0/0
no ip address
shutdown
interface GigabitEthernet0/0
ip address 209.165.200.225 255.255.255.248
duplex auto
speed auto
interface GigabitEthernet0/1
no ip address
shutdown
duplex auto
speed auto
!
interface Serial0/0/0
no ip address
shutdown
clock rate 2000000
interface Serial0/0/1
ip address 209.165.200.233 255.255.255.252
ip forward-protocol nd
no ip http server
no ip http secure-server
ip route 172.30.3.0 255.255.255.0 209.165.200.234
ip route 192.168.10.0 255.255.255.0 209.165.200.226
control-plane
line con 0
line aux 0
line 2
no activation-character
no exec
transport preferred none
transport output pad telnet rlogin lapb-ta mop udptn v120 ssh
stopbits 1
line vty 0 4
login
```

```
transport input none
!
scheduler allocate 20000 1000
ntp authentication-key 1 md5 153C3F3C142B38373F3C2726 7
ntp authenticate
ntp trusted-key 1
ntp master 3
!
end
```

Router R3 (After completion of Part 3)

```
R3#show run
Building configuration...
Current configuration: 2438 bytes
!
version 15.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
hostname R3
boot-start-marker
boot-end-marker
security passwords min-length 10
enable secret 9 $9$KNLoNKx4jYzt8k$wz88KSBb5KMY9121/qkhOTiXkV0XCothrCZLB1lbyko
aaa new-model
aaa authentication login default local
aaa authorization exec default local
aaa session-id common
memory-size iomem 15
no ip domain lookup
ip domain name ccnasecurity.com
ip cef
no ipv6 cef
multilink bundle-name authenticated
cts logging verbose
username Admin01 privilege 15 secret 9
$9$kbOeb3f51kaOrU$hLnVWpzbOBfZWFY1qX4xngsVwQPTojqeJGnujbcIllI
```

```
redundancy
ip ssh time-out 90
ip ssh authentication-retries 2
ip ssh version 2
class-map type inspect match-any INSIDE PROTOCOLS
match protocol tcp
match protocol udp
match protocol icmp
policy-map type inspect INSIDE TO INTERNET
class type inspect INSIDE PROTOCOLS
 inspect
class class-default
drop
zone security INSIDE
zone security INTERNET
zone-pair security IN TO OUT ZONE source INSIDE destination INTERNET
service-policy type inspect INSIDE TO INTERNET
interface Embedded-Service-Engine0/0
no ip address
shutdown
interface GigabitEthernet0/0
no ip address
shutdown
duplex auto
speed auto
interface GigabitEthernet0/1
ip address 172.30.3.1 255.255.255.0
zone-member security INSIDE
duplex auto
speed auto
interface Serial0/0/0
ip address 209.165.200.234 255.255.255.252
zone-member security INTERNET
clock rate 125000
interface Serial0/0/1
no ip address
shutdown
ip forward-protocol nd
```

```
no ip http server
no ip http secure-server
ip route 0.0.0.0 0.0.0.0 209.165.200.233
logging trap warnings
logging host 172.30.3.3
control-plane
banner motd ^CUnauthorized Access is Prohibited!^C
line con 0
line aux 0
line 2
no activation-character
no exec
transport preferred none
transport output pad telnet rlogin lapb-ta mop udptn v120 ssh
stopbits 1
line vty 0 4
transport input ssh
scheduler allocate 20000 1000
ntp authentication-key 1 md5 153C3F3C142B38373F3C2726 7
ntp authenticate
ntp update-calendar
ntp server 209.165.200.233
!
end
```

Switch S1 (After completion of Part 4)

```
S1# show run
hostname S1
!
no ip domain-lookup
!
spanning-tree mode pvst
spanning-tree extend system-id
spanning-tree vlan 1 priority 24576
!
interface FastEthernet0/1
switchport mode trunk
switchport nonegotiate
!
interface FastEthernet0/2
switchport mode trunk
switchport mode trunk
switchport mode trunk
switchport mode trunk
switchport nonegotiate
!
```

end

Switch S2 (After completion of Part 4)

```
S2# show run
Building configuration...
Current configuration: 2599 bytes
version 15.0
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
hostname S2
boot-start-marker
boot-end-marker
enable secret 9 $9$6E0RH.UQ3Nt221$fSKp.he411vh54DhobJk678MmZzj3sHxY3JMX/QdcTE
username Admin01 privilege 15 secret 9
$9$ELG3vxsM143KNo$V3AYoDX3oqPeDL2FWjpeM9R.2/Sek8UY6516OcqxK3E
aaa new-model
aaa authentication login default local
aaa authorization exec default local
aaa session-id common
system mtu routing 1500
ip dhcp snooping vlan 10
ip dhcp snooping
no ip domain-lookup
ip domain-name ccnasecurity.com
spanning-tree mode pvst
spanning-tree loopguard default
spanning-tree extend system-id
spanning-tree vlan 1 priority 28672
vlan internal allocation policy ascending
ip ssh time-out 90
ip ssh authentication-retries 2
ip ssh version 2
interface FastEthernet0/1
switchport trunk native vlan2
```

```
switchport mode trunk
switchport nonegotiate
!
interface FastEthernet0/2
switchport trunk native vlan2
switchport mode trunk
switchport nonegotiate
interface FastEthernet0/3
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/4
switchport access vlan 99
switchport mode access
shutdown
!
interface FastEthernet0/5
switchport access vlan 99
switchport mode access
shutdown
!
interface FastEthernet0/6
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/7
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/8
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/9
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/10
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/11
```

```
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/12
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/13
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/14
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/15
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/16
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/17
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/18
switchport access vlan 10
switchport mode access
switchport port-security mac-address sticky
switchport port-security mac-address sticky 0050.56be.dca4
switchport port-security
spanning-tree portfast
spanning-tree bpduguard enable
interface FastEthernet0/19
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/20
```

```
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/21
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/22
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/23
switchport access vlan 99
switchport mode access
shutdown
interface FastEthernet0/24
switchport access vlan 10
switchport mode access
spanning-tree portfast
spanning-tree bpduguard enable
ip dhcp snooping trust
interface GigabitEthernet0/1
switchport access vlan 99
switchport mode access
shutdown
!
interface GigabitEthernet0/2
switchport access vlan 99
switchport mode access
shutdown
!
interface Vlan1
no ip address
no ip http server
no ip http secure-server
banner motd ^CUnauthorized Access is Prohibited!^C
line con 0
line vty 0 4
transport input ssh
line vty 5 15
transport input ssh
```

! end

ASA (Config after Part 5)

```
CCNAS-ASA# show run
: Saved
: Hardware: ASA5506, 4096 MB RAM, CPU Atom C2000 series 1250 MHz, 1 CPU (4 cores)
ASA Version 9.10(1)
hostname CCNAS-ASA
domain-name ccnasecurity.com
enable password ***** pbkdf2
names
no mac-address auto
interface GigabitEthernet1/1
nameif outside
security-level 0
ip address 209.165.200.226 255.255.255.248
interface GigabitEthernet1/2
nameif inside
security-level 100
ip address 192.168.10.1 255.255.255.0
interface GigabitEthernet1/3
shutdown
no nameif
no security-level
no ip address
interface GigabitEthernet1/4
shutdown
no nameif
no security-level
no ip address
interface GigabitEthernet1/5
shutdown
no nameif
no security-level
no ip address
interface GigabitEthernet1/6
shutdown
```

```
no nameif
no security-level
no ip address
interface GigabitEthernet1/7
shutdown
no nameif
no security-level
no ip address
!
interface GigabitEthernet1/8
shutdown
no nameif
no security-level
no ip address
interface Management1/1
management-only
shutdown
no nameif
no security-level
no ip address
!
ftp mode passive
dns server-group DefaultDNS
domain-name ccnasecurity.com
object network INSIDE-NET
subnet 192.168.10.0 255.255.255.0
pager lines 24
mtu inside 1500
mtu outside 1500
icmp unreachable rate-limit 1 burst-size 1
no asdm history enable
arp timeout 14400
no arp permit-nonconnected
arp rate-limit 16384
object network INSIDE-NET
nat (inside, outside) dynamic interface
route outside 0.0.0.0 0.0.0.0 209.165.200.225 1
timeout xlate 3:00:00
timeout pat-xlate 0:00:30
timeout conn 1:00:00 half-closed 0:10:00 udp 0:02:00 sctp 0:02:00 icmp 0:00:02
timeout sunrpc 0:10:00 h323 0:05:00 h225 1:00:00 mgcp 0:05:00 mgcp-pat 0:05:00
timeout sip 0:30:00 sip media 0:02:00 sip-invite 0:03:00 sip-disconnect 0:02:00
timeout sip-provisional-media 0:02:00 uauth 0:05:00 absolute
timeout tcp-proxy-reassembly 0:01:00
timeout floating-conn 0:00:00
timeout conn-holddown 0:00:15
```

```
timeout igp stale-route 0:01:10
user-identity default-domain LOCAL
aaa authentication ssh console LOCAL
aaa authentication login-history
http server enable
http 192.168.10.0 255.255.255.0 inside
no snmp-server location
no snmp-server contact
service sw-reset-button
crypto ipsec security-association pmtu-aging infinite
crypto ca trustpool policy
telnet timeout 5
ssh stricthostkeycheck
ssh 192.168.10.0 255.255.255.0 inside
ssh timeout 10
ssh version 2
ssh key-exchange group dh-group1-shal
console timeout 0
threat-detection basic-threat
threat-detection statistics access-list
no threat-detection statistics tcp-intercept
dynamic-access-policy-record DfltAccessPolicy
username Admin01 password **** pbkdf2
class-map inspection default
match default-inspection-traffic
policy-map type inspect dns preset dns map
parameters
 message-length maximum client auto
 message-length maximum 512
 no tcp-inspection
policy-map global policy
class inspection default
 inspect ftp
 inspect h323 h225
 inspect h323 ras
  inspect ip-options
 inspect netbios
  inspect rsh
 inspect rtsp
 inspect skinny
 inspect esmtp
 inspect sqlnet
 inspect sunrpc
 inspect tftp
 inspect sip
```

```
inspect xdmcp
 inspect dns preset dns map
 inspect icmp
policy-map type inspect dns migrated dns map 2
parameters
 message-length maximum client auto
message-length maximum 512
 no tcp-inspection
policy-map type inspect dns migrated dns map 1
parameters
message-length maximum client auto
 message-length maximum 512
no tcp-inspection
service-policy global policy global
prompt hostname context
no call-home reporting anonymous
call-home
profile CiscoTAC-1
no active
 destination address http
https://tools.cisco.com/its/service/oddce/services/DDCEService
  destination address email callhome@cisco.com
 destination transport-method http
  subscribe-to-alert-group diagnostic
 subscribe-to-alert-group environment
  subscribe-to-alert-group inventory periodic monthly
 subscribe-to-alert-group configuration periodic monthly
  subscribe-to-alert-group telemetry periodic daily
Cryptochecksum: 9e5cb61eedfd32913637f0020625158c
: end
R3 (Final Configuration)
R3# show run
Building configuration...
Current configuration: 2908 bytes
! Last configuration change at 01:19:28 UTC Thu Feb 5 2015 by Admin01
! NVRAM config last updated at 00:34:31 UTC Thu Feb 5 2015
version 15.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
hostname R3
boot-start-marker
```

```
boot-end-marker
security passwords min-length 10
enable secret 9 $9$KNLoNKx4jYzt8k$wz88KSBb5KMY9121/qkhOTiXkV0XCothrCZLB1lbyko
aaa new-model
aaa authentication login default local
aaa authorization exec default local
aaa session-id common
memory-size iomem 15
no ip domain lookup
ip domain name ccnasecurity.com
ip cef
no ipv6 cef
multilink bundle-name authenticated
cts logging verbose
username Admin01 privilege 15 secret 9
$9$kbOeb3f51ka0rU$hLnVWpzbOBfZWFY1qX4xnqsVwQPTojqeJGnujbcIllI
redundancy
ip ssh time-out 90
ip ssh authentication-retries 2
ip ssh version 2
class-map type inspect match-any INSIDE PROTOCOLS
match protocol tcp
match protocol udp
match protocol icmp
policy-map type inspect INSIDE TO INTERNET
class type inspect INSIDE_PROTOCOLS
inspect
class class-default
drop
zone security INSIDE
zone security INTERNET
zone-pair security IN TO OUT ZONE source INSIDE destination INTERNET
service-policy type inspect INSIDE TO INTERNET
crypto isakmp policy 1
encr 3des
```

```
authentication pre-share
group 2
crypto isakmp key ciscopreshare address 209.165.200.226
crypto ipsec transform-set TRNSFRM-SET esp-3des esp-sha-hmac
mode tunnel
crypto map CMAP 1 ipsec-isakmp
set peer 209.165.200.226
set transform-set TRNSFRM-SET
match address 101
interface Embedded-Service-Engine0/0
no ip address
shutdown
interface GigabitEthernet0/0
no ip address
shutdown
duplex auto
speed auto
interface GigabitEthernet0/1
ip address 172.30.3.1 255.255.255.0
zone-member security INSIDE
duplex auto
speed auto
interface Serial0/0/0
ip address 209.165.200.234 255.255.255.252
zone-member security INTERNET
clock rate 125000
crypto map CMAP
interface Serial0/0/1
no ip address
shutdown
ip forward-protocol nd
no ip http server
no ip http secure-server
ip route 0.0.0.0 0.0.0.0 209.165.200.233
logging trap warnings
logging host 172.30.3.3
access-list 101 permit ip 172.30.3.0 0.0.0.255 192.168.10.0 0.0.0.255
```

```
control-plane
banner motd ^CUnauthorized Access is Prohibited!^C
line con 0
line aux 0
line 2
no activation-character
no exec
transport preferred none
transport output pad telnet rlogin lapb-ta mop udptn v120 ssh
stopbits 1
line vty 0 4
transport input ssh
scheduler allocate 20000 1000
ntp authentication-key 1 md5 153C3F3C142B38373F3C2726 7
ntp authenticate
ntp update-calendar
ntp server 209.165.200.233
end
ASA (Final Configuration)
CCNAS-ASA# show run
: Saved
: Hardware: ASA5506, 4096 MB RAM, CPU Atom C2000 series 1250 MHz, 1 CPU (4 cores)
ASA Version 9.10(1)
hostname CCNAS-ASA
domain-name ccnasecurity.com
enable password **** pbkdf2
names
no mac-address auto
interface GigabitEthernet1/1
nameif outside
security-level 0
ip address 209.165.200.226 255.255.255.248
interface GigabitEthernet1/2
nameif inside
security-level 100
```

ip address 192.168.10.1 255.255.255.0

```
interface GigabitEthernet1/3
shutdown
no nameif
no security-level
no ip address
interface GigabitEthernet1/4
shutdown
no nameif
no security-level
no ip address
interface GigabitEthernet1/5
shutdown
no nameif
no security-level
no ip address
interface GigabitEthernet1/6
shutdown
no nameif
no security-level
no ip address
interface GigabitEthernet1/7
shutdown
no nameif
no security-level
no ip address
interface GigabitEthernet1/8
shutdown
no nameif
no security-level
no ip address
interface Management1/1
management-only
shutdown
no nameif
no security-level
no ip address
ftp mode passive
dns server-group DefaultDNS
domain-name ccnasecurity.com
object network INSIDE-NET
subnet 192.168.10.0 255.255.255.0
```

```
object network NETWORK OBJ 172.30.3.0 24
subnet 172.30.3.0 255.255.255.0
object network NETWORK OBJ 192.168.10.0 24
subnet 192.168.10.0 255.255.255.0
access-list outside cryptomap extended permit ip 192.168.10.0 255.255.255.0
172.30.3.0 255.255.255.0
pager lines 24
mtu inside 1500
mtu outside 1500
icmp unreachable rate-limit 1 burst-size 1
no asdm history enable
arp timeout 14400
no arp permit-nonconnected
arp rate-limit 16384
nat (inside, outside) source static NETWORK OBJ 192.168.10.0 24
NETWORK OBJ 192.168.10.0 24 destination static NETWORK OBJ 172.30.3.0 24
NETWORK OBJ 172.30.3.0 24 no-proxy-arp route-lookup
object network INSIDE-NET
nat (inside, outside) dynamic interface
route outside 0.0.0.0 0.0.0.0 209.165.200.225 1
timeout xlate 3:00:00
timeout pat-xlate 0:00:30
timeout conn 1:00:00 half-closed 0:10:00 udp 0:02:00 sctp 0:02:00 icmp 0:00:02
timeout sunrpc 0:10:00 h323 0:05:00 h225 1:00:00 mgcp 0:05:00 mgcp-pat 0:05:00
timeout sip 0:30:00 sip media 0:02:00 sip-invite 0:03:00 sip-disconnect 0:02:00
timeout sip-provisional-media 0:02:00 uauth 0:05:00 absolute
timeout tcp-proxy-reassembly 0:01:00
timeout floating-conn 0:00:00
timeout conn-holddown 0:00:15
timeout igp stale-route 0:01:10
user-identity default-domain LOCAL
aaa authentication ssh console LOCAL
aaa authentication login-history
http server enable
http 192.168.10.0 255.255.255.0 inside
no snmp-server location
no snmp-server contact
service sw-reset-button
crypto ipsec ikev1 transform-set ESP-AES-128-SHA esp-aes esp-sha-hmac
crypto ipsec ikev1 transform-set ESP-AES-128-MD5 esp-aes esp-md5-hmac
crypto ipsec ikev1 transform-set ESP-AES-192-SHA esp-aes-192 esp-sha-hmac
crypto ipsec ikev1 transform-set ESP-AES-192-MD5 esp-aes-192 esp-md5-hmac
crypto ipsec ikev1 transform-set ESP-AES-256-SHA esp-aes-256 esp-sha-hmac
crypto ipsec ikev1 transform-set ESP-AES-256-MD5 esp-aes-256 esp-md5-hmac
crypto ipsec ikev1 transform-set ESP-AES-128-SHA-TRANS esp-aes esp-sha-hmac
crypto ipsec ikev1 transform-set ESP-AES-128-SHA-TRANS mode transport
crypto ipsec ikev1 transform-set ESP-AES-128-MD5-TRANS esp-aes esp-md5-hmac
crypto ipsec ikev1 transform-set ESP-AES-128-MD5-TRANS mode transport
```

```
crypto ipsec ikev1 transform-set ESP-AES-192-SHA-TRANS esp-aes-192 esp-sha-hmac
crypto ipsec ikev1 transform-set ESP-AES-192-SHA-TRANS mode transport
crypto ipsec ikev1 transform-set ESP-AES-192-MD5-TRANS esp-aes-192 esp-md5-hmac
crypto ipsec ikev1 transform-set ESP-AES-192-MD5-TRANS mode transport
crypto ipsec ikev1 transform-set ESP-AES-256-SHA-TRANS esp-aes-256 esp-sha-hmac
crypto ipsec ikev1 transform-set ESP-AES-256-SHA-TRANS mode transport
crypto ipsec ikev1 transform-set ESP-AES-256-MD5-TRANS esp-aes-256 esp-md5-hmac
crypto ipsec ikev1 transform-set ESP-AES-256-MD5-TRANS mode transport
crypto ipsec ikev1 transform-set ESP-3DES-SHA esp-3des esp-sha-hmac
crypto ipsec ikev1 transform-set ESP-3DES-MD5 esp-3des esp-md5-hmac
crypto ipsec ikev1 transform-set ESP-3DES-SHA-TRANS esp-3des esp-sha-hmac
crypto ipsec ikev1 transform-set ESP-3DES-SHA-TRANS mode transport
crypto ipsec ikev1 transform-set ESP-3DES-MD5-TRANS esp-3des esp-md5-hmac
crypto ipsec ikev1 transform-set ESP-3DES-MD5-TRANS mode transport
crypto ipsec ikev1 transform-set ESP-DES-SHA esp-des esp-sha-hmac
crypto ipsec ikev1 transform-set ESP-DES-MD5 esp-des esp-md5-hmac
crypto ipsec ikev1 transform-set ESP-DES-SHA-TRANS esp-des esp-sha-hmac
crypto ipsec ikev1 transform-set ESP-DES-SHA-TRANS mode transport
crypto ipsec ikev1 transform-set ESP-DES-MD5-TRANS esp-des esp-md5-hmac
crypto ipsec ikev1 transform-set ESP-DES-MD5-TRANS mode transport
crypto ipsec ikev2 ipsec-proposal AES256
protocol esp encryption aes-256
protocol esp integrity sha-1 md5
crypto ipsec ikev2 ipsec-proposal AES192
protocol esp encryption aes-192
protocol esp integrity sha-1 md5
crypto ipsec ikev2 ipsec-proposal AES
protocol esp encryption aes
protocol esp integrity sha-1 md5
crypto ipsec ikev2 ipsec-proposal 3DES
protocol esp encryption 3des
protocol esp integrity sha-1 md5
crypto ipsec ikev2 ipsec-proposal DES
protocol esp encryption des
protocol esp integrity sha-1 md5
crypto ipsec security-association pmtu-aging infinite
crypto map outside map 1 match address outside cryptomap
crypto map outside map 1 set peer 209.165.200.234
crypto map outside map 1 set ikev1 transform-set ESP-AES-128-SHA ESP-AES-128-MD5
ESP-AES-192-SHA ESP-AES-192-MD5 ESP-AES-256-SHA ESP-AES-256-MD5 ESP-3DES-SHA ESP-
3DES-MD5 ESP-DES-SHA ESP-DES-MD5
crypto map outside map 1 set ikev2 ipsec-proposal AES256 AES192 AES 3DES DES
crypto map outside map interface outside
crypto ca trustpool policy
crypto ikev2 policy 1
encryption aes-256
integrity sha
group 5 2
prf sha
```

lifetime seconds 86400 crypto ikev2 policy 10 encryption aes-192 integrity sha group 5 2 prf sha lifetime seconds 86400 crypto ikev2 policy 20 encryption aes integrity sha group 5 2 prf sha lifetime seconds 86400 crypto ikev2 policy 30 encryption 3des integrity sha group 5 2 prf sha lifetime seconds 86400 crypto ikev2 policy 40 encryption des integrity sha group 5 2 prf sha lifetime seconds 86400 crypto ikev2 enable outside crypto ikev1 enable outside crypto ikev1 policy 10 authentication pre-share encryption aes-256 hash sha group 2 lifetime 86400 crypto ikev1 policy 20 authentication rsa-sig encryption aes-256 hash sha group 2 lifetime 86400 crypto ikev1 policy 40 authentication pre-share encryption aes-192 hash sha group 2 lifetime 86400 crypto ikev1 policy 50

authentication rsa-sig
encryption aes-192

hash sha

group 2

lifetime 86400 crypto ikev1 policy 70 authentication pre-share encryption aes hash sha group 2 lifetime 86400 crypto ikev1 policy 80 authentication rsa-sig encryption aes hash sha group 2 lifetime 86400 crypto ikev1 policy 100 authentication pre-share encryption 3des hash sha group 2 lifetime 86400 crypto ikev1 policy 110 authentication rsa-sig encryption 3des hash sha group 2 lifetime 86400 crypto ikev1 policy 130 authentication pre-share encryption des hash sha group 2 lifetime 86400 crypto ikev1 policy 140 authentication rsa-sig encryption des hash sha group 2 lifetime 86400 telnet timeout 5 ssh stricthostkeycheck ssh 192.168.10.0 255.255.255.0 inside ssh timeout 10 ssh version 2 ssh key-exchange group dh-group1-sha1 console timeout 0 threat-detection basic-threat threat-detection statistics access-list

no threat-detection statistics tcp-intercept

```
group-policy GroupPolicy 209.165.200.234 internal
group-policy GroupPolicy 209.165.200.234 attributes
vpn-tunnel-protocol ikev1 ikev2
dynamic-access-policy-record DfltAccessPolicy
username Admin01 password **** pbkdf2
tunnel-group 209.165.200.234 type ipsec-121
tunnel-group 209.165.200.234 general-attributes
default-group-policy GroupPolicy 209.165.200.234
tunnel-group 209.165.200.234 ipsec-attributes
ikev1 pre-shared-key *****
ikev2 remote-authentication pre-shared-key *****
ikev2 local-authentication pre-shared-key *****
class-map inspection default
match default-inspection-traffic
!
!
policy-map type inspect dns preset dns map
parameters
message-length maximum client auto
 message-length maximum 512
no tcp-inspection
policy-map global policy
class inspection default
 inspect ftp
inspect h323 h225
 inspect h323 ras
 inspect ip-options
 inspect netbios
 inspect rsh
 inspect rtsp
 inspect skinny
 inspect esmtp
 inspect sqlnet
 inspect sunrpc
 inspect tftp
 inspect sip
 inspect xdmcp
 inspect dns preset dns map
  inspect icmp
policy-map type inspect dns migrated dns map 2
 parameters
 message-length maximum client auto
 message-length maximum 512
no tcp-inspection
policy-map type inspect dns migrated dns map 1
parameters
 message-length maximum client auto
message-length maximum 512
```

```
no tcp-inspection
service-policy global_policy global
prompt hostname context
no call-home reporting anonymous
call-home
profile CiscoTAC-1
 no active
 destination address http
https://tools.cisco.com/its/service/oddce/services/DDCEService
 destination address email callhome@cisco.com
  destination transport-method http
 subscribe-to-alert-group diagnostic
 subscribe-to-alert-group environment
 subscribe-to-alert-group inventory periodic monthly
  subscribe-to-alert-group configuration periodic monthly
 subscribe-to-alert-group telemetry periodic daily
Cryptochecksum: 7300ef04b96b5b7ff4f4c7989a5e23a8
: end
```