# **Demo Questions**

## CompTIA SY0-601 Exam

CompTIA Security+ 2021

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## Question #1Topic 1

#### SIMULATION -

A company recently added a DR site and is redesigning the network. Users at the DR site are having issues browsing websites.

#### **INSTRUCTIONS -**

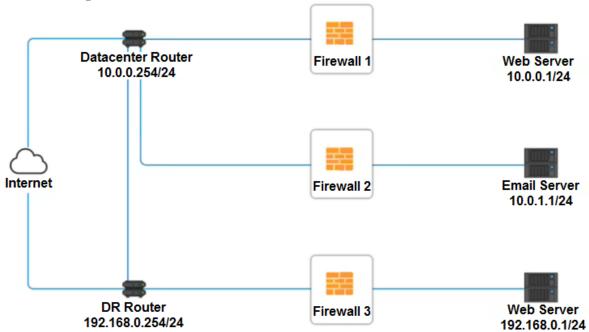
Click on each firewall to do the following:

- 1. Deny cleartext web traffic.
- 2. Ensure secure management protocols are used.
- 3. Resolve issues at the DR site.

The ruleset order cannot be modified due to outside constraints.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

## **Network Diagram**



Firewall 1 ×				
Rule Name	Source	Destination	Service	Action
DNS Rule	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
HTTPS Outbound	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
Management	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
HTTPS Inbound	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
HTTP Inbound	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
Reset Answer			Save	Close

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Rule Name	Source	Destination	Service	Action
DNS Rule	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
HTTPS Outbound		▼	▼	
	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
Management	▼	▼	▼	▼
	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT
HTTPS Inbound	▼		▼	
	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
HTTP Inbound	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
Reset Answer			Save	Close

Firewall 3 ×

Rule Name	Source	Destination	Service	Action
DNS Rule	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
HTTPS Outbound	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
Management	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
HTTPS Inbound	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
HTTP Inbound	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
Reset Answer			Save	Close

Correct Answer: See explanation below.

Firewall 1:

DNS Rule "" ANY --> ANY --> DNS --> PERMIT

HTTPS Outbound "" 10.0.0.1/24 --> ANY --> HTTPS --> PERMIT

Management "" ANY --> ANY --> SSH --> PERMIT

HTTPS Inbound "" ANY --> ANY --> HTTPS --> PERMIT

HTTP Inbound "" ANY --> ANY --> HTTP --> DENY

Firewall 2: No changes should be made to this firewall

Firewall 3:

DNS Rule "" ANY --> ANY --> DNS --> PERMIT

HTTPS Outbound "" 192.168.0.1/24 --> ANY --> HTTPS --> PERMIT

Management "" ANY --> ANY --> SSH --> PERMIT

HTTPS Inbound "" ANY --> ANY --> HTTPS --> PERMIT

HTTP Inbound "" ANY --> ANY --> HTTP --> DENY

### Question #2Topic 1

#### DRAG DROP -

A security engineer is setting up passwordless authentication for the first time.

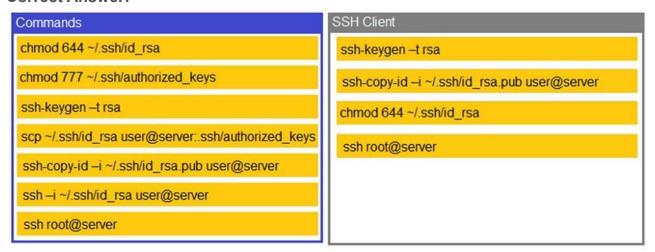
#### **INSTRUCTIONS** -

Use the minimum set of commands to set this up and verify that it works. Commands cannot be reused.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Select and Place:

#### **Correct Answer:**



## Question #3Topic 1

#### **HOTSPOT-**

Select the appropriate attack and remediation from each drop-down list to label the corresponding attack with its remediation.

#### **INSTRUCTIONS -**

Not all attacks and remediation actions will be used.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Hot Area:

Attack Description	Target	Attack Identified	BEST Preventative or Remediation Ac
An attacker sends multiple SYN packets from	10000		-
multiple sources.	Web server		
manple sources.		Botnet	Enable DDoS protection
		RAT	Patch vulnerable systems
		Logic Bomb	Disable vulnerable services
		Backdoor	Change the default system password
		Virus	Update the cryptographic algorithms
		Spyware	Change the default application password
		Worm	Implement 2FA using push notification
		Adware	Conduct a code review
		100000000000000000000000000000000000000	Implement application fuzzing
		Ransomware	
		Keylogger	Implement a host-based IPS
		Phishing	Disable remote access services
he attack establishes a connection, which allows		•	
	User	Botnet	Enable DDoS protection
emote commands to be executed.		RAT	Patch vulnerable systems
		Logic Bomb	Disable vulnerable services
			Change the default system password
		Backdoor	
		Virus	Update the cryptographic algorithms
		Spyware	Change the default application password
		Worm	Implement 2FA using push notification
		Adware	Conduct a code review
		Ransomware	Implement application fuzzing
		Keylogger	Implement a host-based IPS
		Phishing	Disable remote access services
The attack is self propagating and compromises a		•	,
QL database using well-known credentials as it	Database server	Botnet	Enable DDoS protection
noves through the network.		RAT	Patch vulnerable systems
noves anough the network.			
		Logic Bomb	Disable vulnerable services
		Backdoor	Change the default system password
		Virus	Update the cryptographic algorithms
		Spyware	Change the default application password
		Worm	Implement 2FA using push notification
		Adware	Conduct a code review
		Ransomware	Implement application fuzzing
			Implement a host-based IPS
		Keylogger	
		Phishing	Disable remote access services
he attacker uses hardware to remotely monitor a		•	
iser's input activity to harvest credentials.	Executive		
sor s input activity to flatvest credefitials.		Botnet	Enable DDoS protection
		RAT	Patch vulnerable systems
		Logic Bomb	Disable vulnerable services
		Backdoor	Change the default system password
		Virus	Update the cryptographic algorithms
		Spyware	Change the default application password
		Worm	Implement 2FA using push notification
		Adware	Conduct a code review
		Ransomware	Implement application fuzzing
		Keylogger	Implement a host-based IPS
		Phishing	Disable remote access services
		•	
		Detect	Enable DDoS protection
	Application	Botnet	
nternally developed application that bypasses	Application		
nternally developed application that bypasses	Application	RAT	Patch vulnerable systems
nternally developed application that bypasses	Application	RAT Logic Bomb	Patch vulnerable systems Disable vulnerable services
nternally developed application that bypasses	Application	RAT Logic Bomb Backdoor	Patch vulnerable systems Disable vulnerable services Change the default system password
nternally developed application that bypasses	Application	RAT Logic Bomb Backdoor Virus	Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms
nternally developed application that bypasses	Application	RAT Logic Bomb Backdoor	Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password
nternally developed application that bypasses	Application	RAT Logic Bomb Backdoor Virus	Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification
nternally developed application that bypasses	Application	RAT Logic Bomb Backdoor Virus Spyware	Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password
nternally developed application that bypasses	Application	RAT Logic Bomb Backdoor Virus Spyware Worm Adware	Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review
nternally developed application that bypasses	Application	RAT Logic Bomb Backdoor Virus Spyware Worm Adware Ransomware	Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review Implement application fuzzing
The attacker embeds hidden access in an internally developed application that bypasses account login.	Application	RAT Logic Bomb Backdoor Virus Spyware Worm Adware	Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review

**Correct Answer:** 

Attack Description	Target	Attack Identified	BEST Preventative or Remediation Ad
An attacker sends multiple SYN packets from			
multiple sources.	Web server	•	5 11 22 2 1 1
multiple sources.		Botnet	Enable DDoS protection
		RAT	Patch vulnerable systems
		Logic Bomb	Disable vulnerable services
		Backdoor	Change the default system password
		Virus	Update the cryptographic algorithms
		Spyware	Change the default application password
		Worm	Implement 2FA using push notification
		Adware	Conduct a code review
		Ransomware	Implement application fuzzing
		Keylogger	Implement a host-based IPS
		Phishing	Disable remote access services
The attack establishes a connection, which allows	10000	•	
remote commands to be executed.	User	Botnet	Enable DDoS protection
emote commands to be executed.		RAT	Patch vulnerable systems
		Logic Bomb	Disable vulnerable services
		Backdoor	Change the default system password
		Virus	Update the cryptographic algorithms
		Spyware	Change the default application password
		Worm	Implement 2FA using push notification
		Adware	Conduct a code review
			Implement application fuzzing
		Ransomware	Implement a host-based IPS
		Keylogger Phishing	Disable remote access services
The attack is self propagating and compromises a SQL database using well-known credentials as it	Database server	•	
	Database server	Botnet	Enable DDoS protection
moves through the network.		RAT	Patch vulnerable systems
		Logic Bomb	Disable vulnerable services
		Backdoor	Change the default system password
		Virus	Update the cryptographic algorithms
		Spyware	Change the default application password
		Worm	Implement 2FA using push notification
		Adware	Conduct a code review
		Ransomware	Implement application fuzzing
		Keylogger	Implement a host-based IPS
			Disable remote access services
		Phishing	Disable remote access services
The attacker uses hardware to remotely monitor a	Executive	•	
user's input activity to harvest credentials.		Botnet	Enable DDoS protection
		RAT	Patch vulnerable systems
		Logic Bomb	Disable vulnerable services
		Backdoor	Change the default system password
		Virus	Update the cryptographic algorithms
		Spyware	Change the default application password
		Worm	Implement 2FA using push notification
		Adware	Conduct a code review
		Ransomware	Implement application fuzzing
		Keylogger	Implement a host-based IPS
		Phishing	Disable remote access services
The attacker embeds hidden access in an internally developed application that bypasses	Application	•	,
internally developed application that bypasses	Application	Botnet	Enable DDoS protection
account login.		RAT	Patch vulnerable systems
		Logic Bomb	Disable vulnerable services
		Backdoor	Change the default system password
		Virus	Update the cryptographic algorithms
		Spyware	Change the default application password
		Worm	Implement 2FA using push notification
			Conduct a code review
		Adware	Implement application fuzzing
		Ransomware	implement application luzzing
		Keylogger Phishing	Implement a host-based IPS Disable remote access services

## Question #4Topic 1

Which of the following will MOST likely adversely impact the operations of unpatched traditional programmable-logic controllers, running a back-end LAMP server and OT systems with human-management interfaces that are accessible over the Internet via a web interface? (Choose two.)

- A. Cross-site scripting
- B. Data exfiltration
- C. Poor system logging
- D. Weak encryption
- E. SQL injection
- F. Server-side request forgery

Correct Answer: *DF*Question #5*Topic 1* 

A company recently transitioned to a strictly BYOD culture due to the cost of replacing lost or damaged corporate-owned mobile devices. Which of the following technologies would be BEST to balance the BYOD culture while also protecting the company's data?

- A. Containerization
- B. Geofencing
- C. Full-disk encryption
- D. Remote wipe

**Correct Answer:** C