

## Quiz Submissions - Week 3 Weekly Quiz



REGINA LIU YIXUAN \_ (username: reginaliu.2019)

### Attempt 1

Written: Sep 4, 2022 7:52 PM - Sep 4, 2022 7:59 PM

### Submission View

Your quiz has been submitted successfully.

#### Question 1

Based on Risk Management Concepts, which of the following statement(s) is/are correct? (Choose one or more).

- ☐ If the system is totally isolated from the internet, there is no risk of denial of service network attacks from wired connected clients.
- ☒ A risk is when the control is being exploited to threaten asset(s)
- ☐ We implement controls to mitigate against the risk for valuable assets.
- ☒ ☒ Threat is the potential danger to the information system.

View question 1 feedback

#### Question 2

SQL Injection is a common application level attack. Which of the following technical countermeasure(s) can mitigate this? (Choose one or more).

- ☒ ☒ Use an application level firewall
- ☒ ☐ User training on security awareness
- ☒ Use a stateless firewall
- ☒ ☒ Validate inputs and outputs on the server side

View question 2 feedback

#### Question 3

Which of the following mechanism(s) is/are used when we enable transport layer security (SSL/TLS) between a client and a server? (Choose one or more).

\_\_\_\_ Hashing



→ ✓ ☒ Symmetric Key Cryptography

→ ✓ ☒ Digital Signature

→ ✓ ☒ Asymmetric Key Cryptography

#### Question 4

If your browser application is prone to SQL Injection attack with malicious inputs, you can always mitigate using SSL/TLS.

☐ True

✓ ☒ False

▷ View question 4 feedback

#### Question 5

We set up a firewall to allow traffic to a machine IP address 192.168.1.1 running on port 443 (HTTPS).

Which of the following statement(s) is/are correct? (Choose one or more).

→ ✗ ☐ We only need to add allow rules for inbound traffic of a stateful firewall to allow 192.168.1.1 port 443

✓ ☐ We must add allow rules for both inbound and outbound traffic of a stateful firewall to allow 192.168.1.1 port 443

→ ✓ ☒ We must add rules for both inbound and outbound traffic of a stateless firewall to allow 192.168.1.1 port 443

✓ ☐ We only need to add allow rules for inbound traffic of a stateless firewall to allow all IPs and all ports

#### Question 6

Which of the following is/are correct about AWS Security Groups (SG) and Access Control List (ACL)? (Choose one or more).

✓ ☒ You can add a deny rule in ACL

✓ ☒ SG is stateful and ACL is stateless

✓ ☐ You can add a deny rule in SG

✓ ☐ SG is stateless and ACL is stateful

#### Question 7

Inbound					
Rule #	Type	Protocol	Port Range	Source	Allow / Deny
100	HTTP	TCP	80	0.0.0.0/0	Allow
*	All IPv4 Traffic	ALL	ALL	0.0.0.0/0	Deny
Outbound					
Rule #	Type	Protocol	Port Range	Source	Allow / Deny
100	HTTP	TCP	443	0.0.0.0/0	Allow
*	All IPv4 Traffic	ALL	ALL	0.0.0.0/0	Deny

Based on the above **AWS access control list** setting for your application hosted on port 80, an internet client is **ABLE** to make an inbound call to this application and receive a reply.

True or False?

- ☐ True  
☒ False

▼ Hide question 7 feedback

Outbound not allowed

## Question 8

Inbound				
Type	Protocol	Port Range	Source	Description
HTTP	TCP	80	0.0.0.0/0	All Web Traffic
HTTPS	TCP	443	0.0.0.0/0	All Web Traffic
Outbound				
Type	Protocol	Port Range	Source	Description
HTTP	TCP	8080	0.0.0.0/0	All Web Traffic

Based on the above **AWS security group** setting for your application hosted on port 80, an internet client is **ABLE** to make an inbound call to this application and receive a reply.

True or False?

- ☐ True
- ✗ ☒ False

▼ Hide question 8 feedback

It's stateful

### Question 9

For an AWS public subnet to communicate between instances in your VPC and the internet, which of the following action(s) must be done? (Choose one or more).

- ✓ ☒ Ensure your AWS Security Groups and Access Control Lists allow traffic to go through
- ✓ ☒ Attach an internet gateway to VPC
- ✓ ☐ Ensure you instances have a private IP
- ✓ ☒ Ensure your route table allows traffic to flow between your instances and from your instances to the internet gateway.

### Question 10

Which of the following component(s) is/are included in the AWS Default VPC? (Choose one or more).

- ✓ ☒ Default Public Subnet in each Availability Zones (AZs) of the VPC
- ✗ ☐ An Internet Gateway
- ✓ ☒ Default Security Group and network access control list
- ✓ ☒ Main route table

**Attempt Score:**

**Overall Grade (first attempt):**

Done

