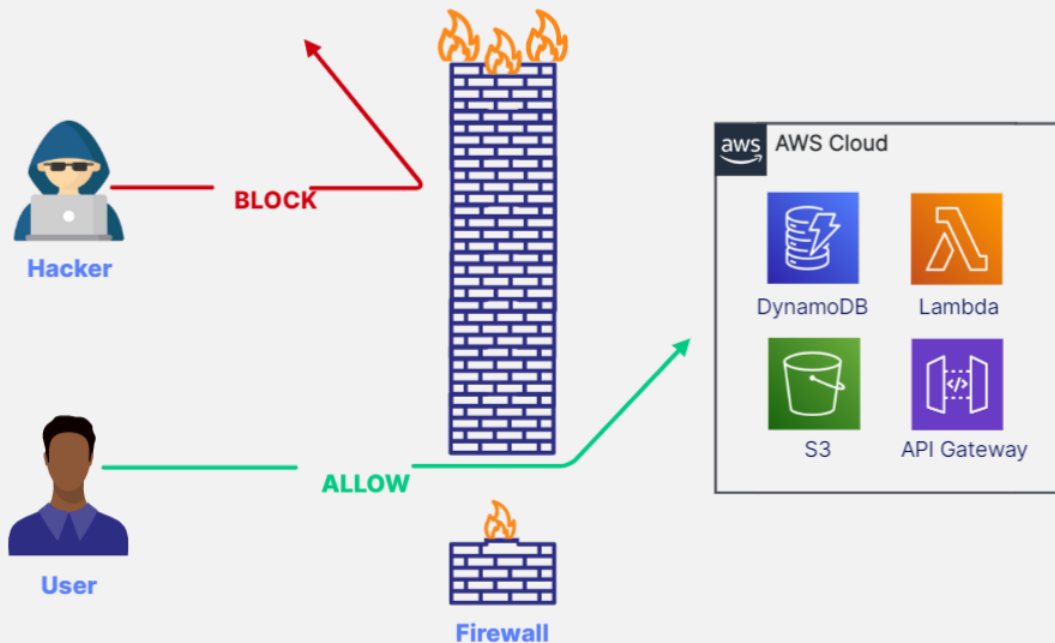


# What Is a Firewall?

**Firewalls** prevent unauthorized access to your networks by **inspecting** incoming and outgoing traffic against security rules you've defined.



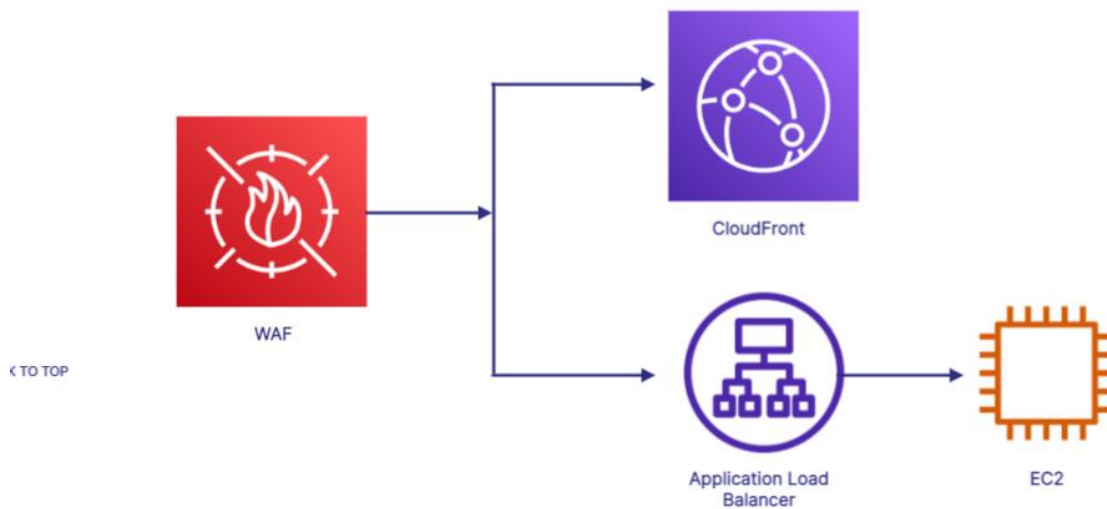
## Web Application Firewall (WAF)

**WAF** helps protect your web applications against common web attacks.



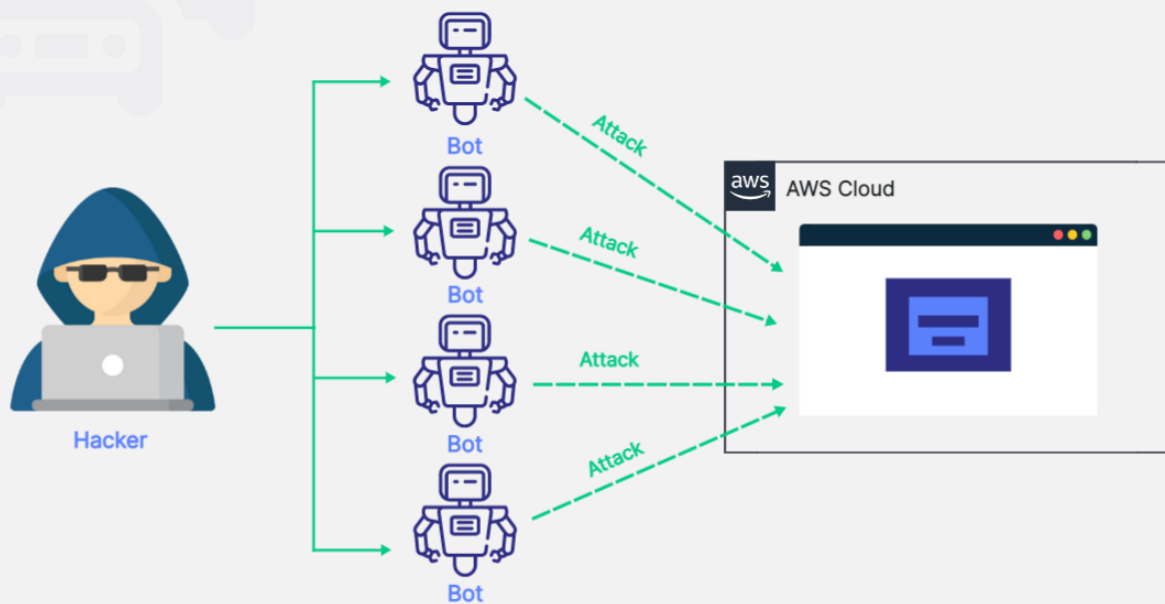
**Protect your web application from cross-site scripting attacks.**

You can deploy a web application directly to an EC2 instance and protect it from cross-site scripting attacks using WAF. You can even deploy WAF on CloudFront as part of your CDN solution to block malicious traffic.



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A **DDoS** attack causes a traffic jam on a website or web application in an attempt to cause it to crash.



# Shield

**Shield** is a managed Distributed Denial of Service (**DDoS**) protection service.



1

## Shield Standard



Provides **free** protection against common and frequently occurring attacks

2

## Shield Advanced



Provides enhanced protections and 24/7 access to AWS experts for a **fee**

**DDoS** protection via **Shield Advanced** is supported on several services.



CloudFront



Route 53



Elastic Load Balancing



AWS Global Accelerator

Receive  
real-time notifications  
of suspected DDoS  
incidents and  
assistance from AWS  
during the attack.

Shield Advanced will give you notifications of DDoS attacks via CloudWatch metrics. Additionally, with Shield Advanced, you have 24/7 access to AWS experts to assist during an attack.

## Macie

**Macie** helps you discover and protect sensitive data.

Uses machine learning

Evaluates S3 environment

Uncovers personally identifiable information (PII)



Macie

Discover  
passport  
numbers  
stored on  
S3.

Macie can be used to find sensitive data like passport numbers, social security numbers, and credit card numbers on S3.

# Things to Remember When Studying for the Exam



## WAF

Going into the exam, don't forget WAF protects against SQL injection and cross-site scripting attacks.



## Shield

Don't forget Shield provides DDoS protection and works with CloudFront, Route 53, Elastic Load Balancing, and AWS Global Accelerator.



## Macie

Remember that Macie helps you find sensitive information.



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