

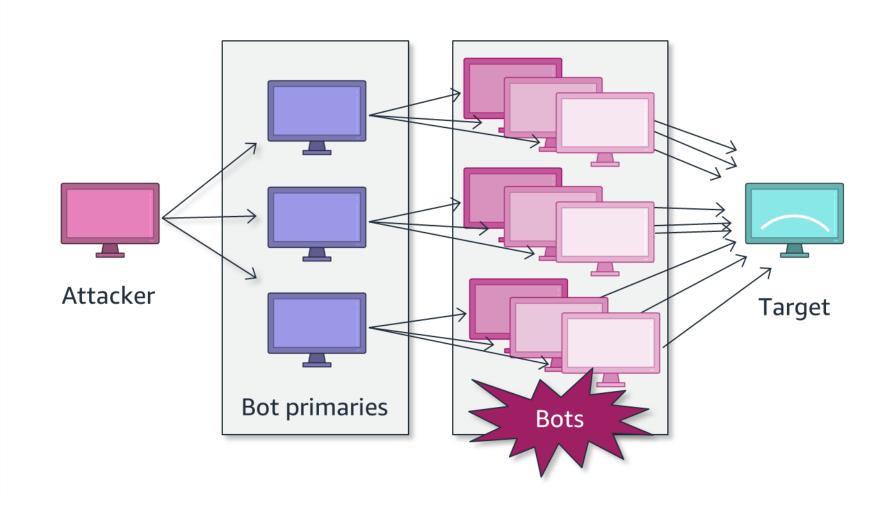
WAF protection

"How can we protect public-facing applications?"



DDoS attacks

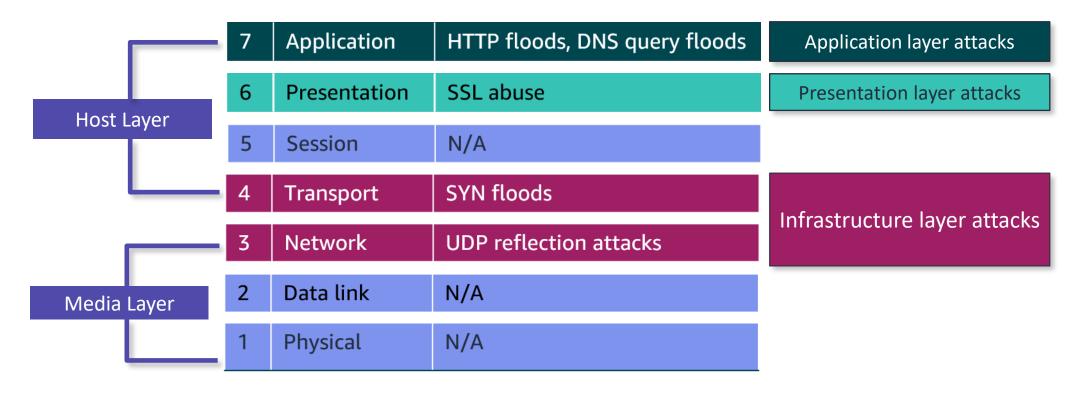
Each of the compromised hosts participates in the attack, generating a flood of requests to overwhelm the intended target.





OSI layer attacks

DDoS attacks can be categorized by the Open Systems Interconnection (OSI) layer they attack.

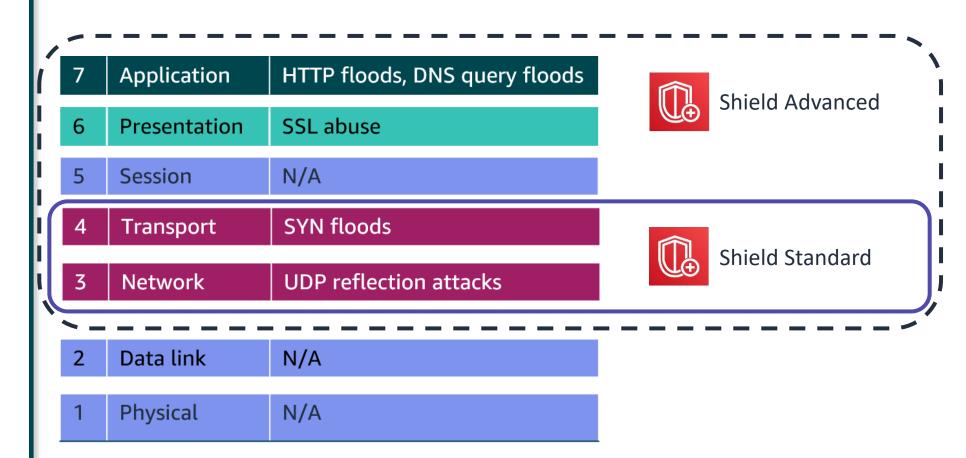


AWS Shield

Managed DDoS protection service that protects your applications on AWS

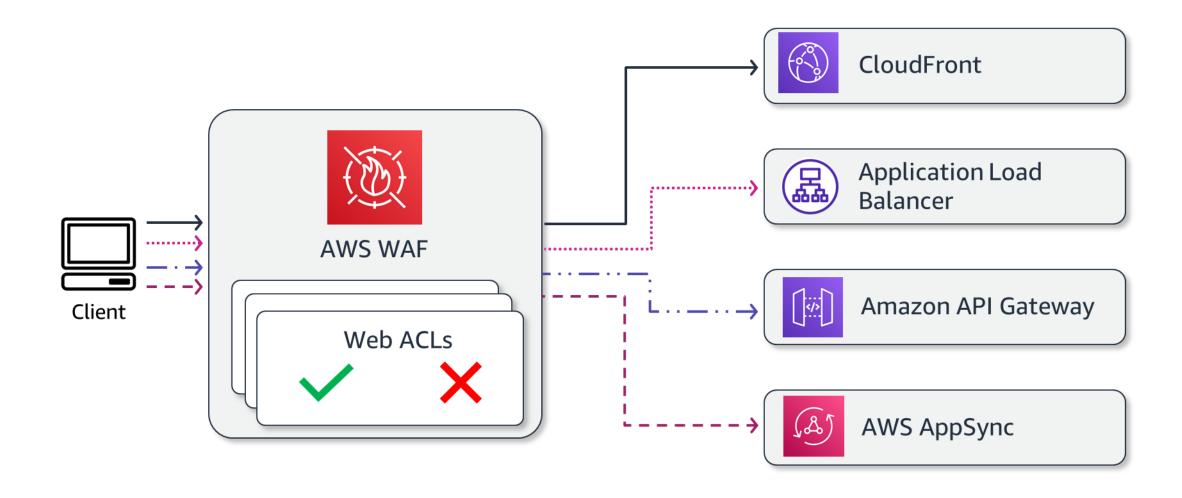
Two types of protection:

- AWS Shield Standard
- AWS Shield Advanced

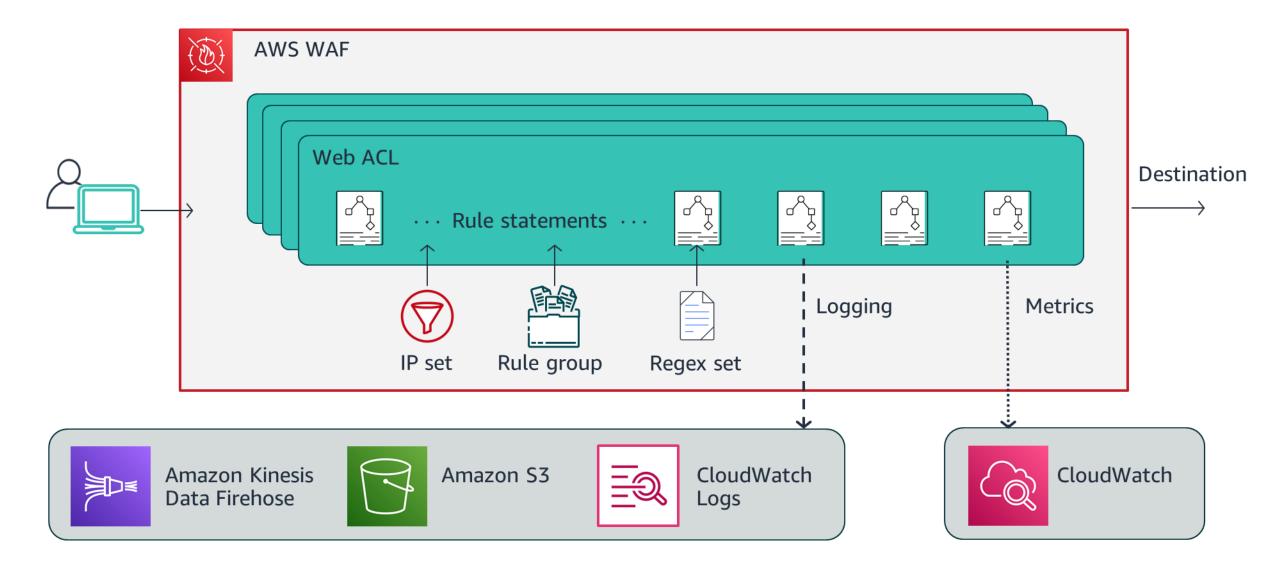




AWS WAF



Components of access control



Control traffic with ACL rule statements



Attack prevention

- SQL injection and cross-site scripting detection
- AWS Managed Rules for AWS WAF
- AWS Marketplace managed rule groups



Traffic filtering

- Rate limiting
- IP filtering with full Classless Inter-Domain Routing (CIDR) range support
- Geo-fencing by country



Pattern matching

- Regex match
- String match
- Size constraint match



Logical operation

- AND statement
- OR statement
- NOT statement

DDoS-resilient reference architecture

