AWS re:Invent

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Building DDoS-resilient perimeters with response automation

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What you will learn by the end of the talk

Components and architectural patterns for DDoS resiliency

Best practices of DDoS protection on AWS

Preparing your environment for DDoS resiliency

Detecting, mitigating, and responding to an incident

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Common security risks



Denial of service

Web request floods

SYN floods

Reflection attacks



App vulnerabilities

SQL injection

Cross-site scripting (XSS)

OWASP Top 10

Common vulnerabilities and exposures (CVE)



Bad bots

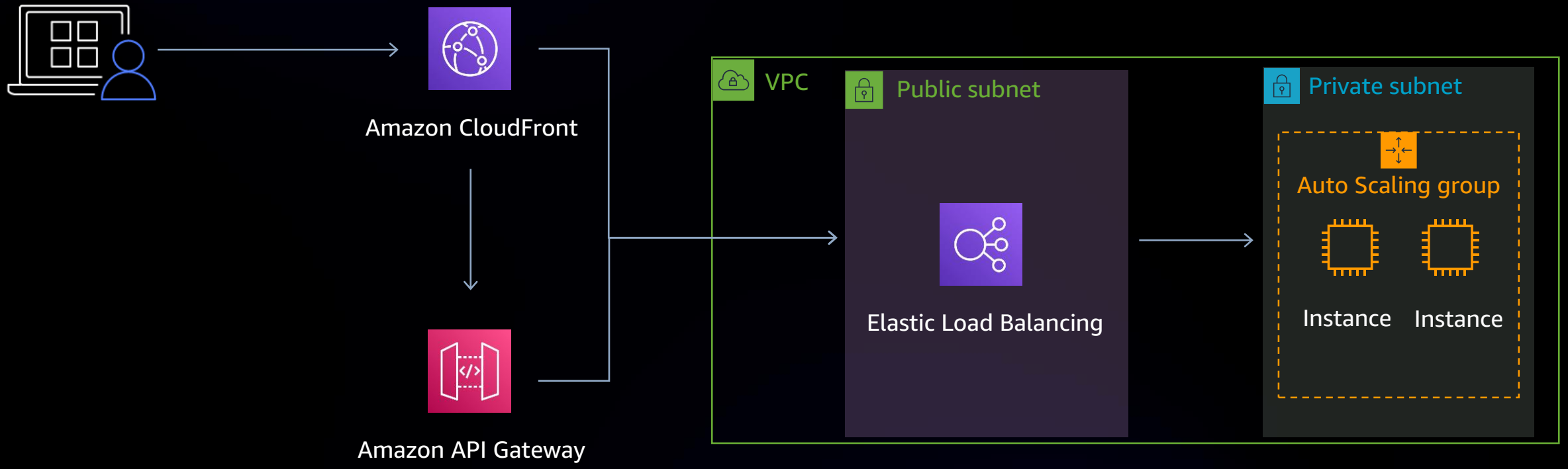
Crawlers

Content scrapers

Scanners and probes

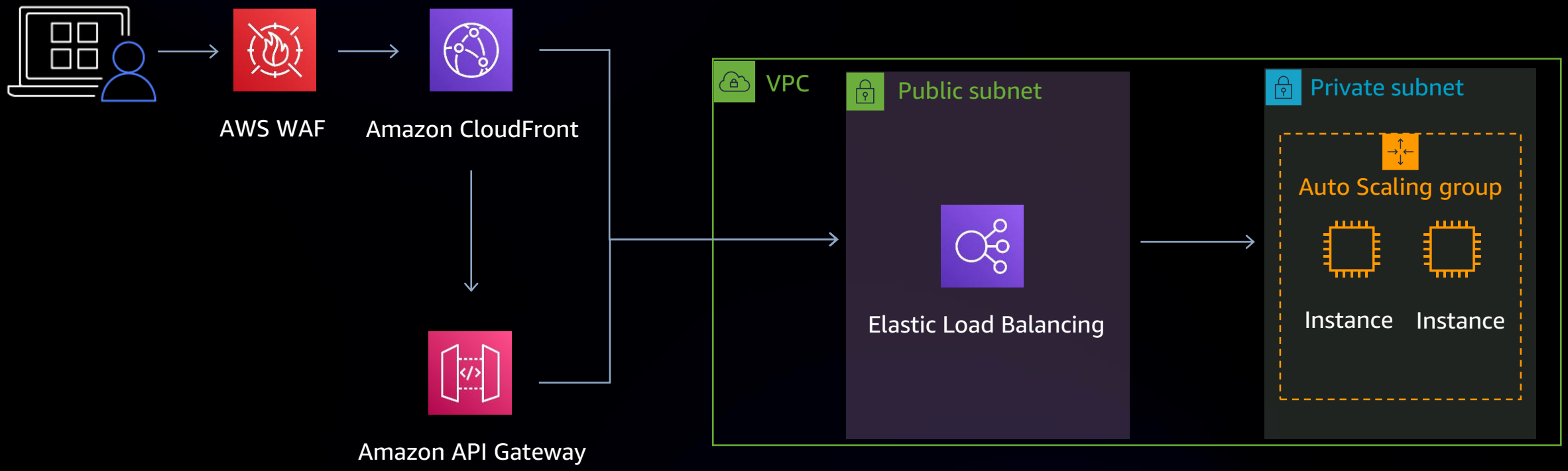
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DDoS resiliency best practices for common web applications



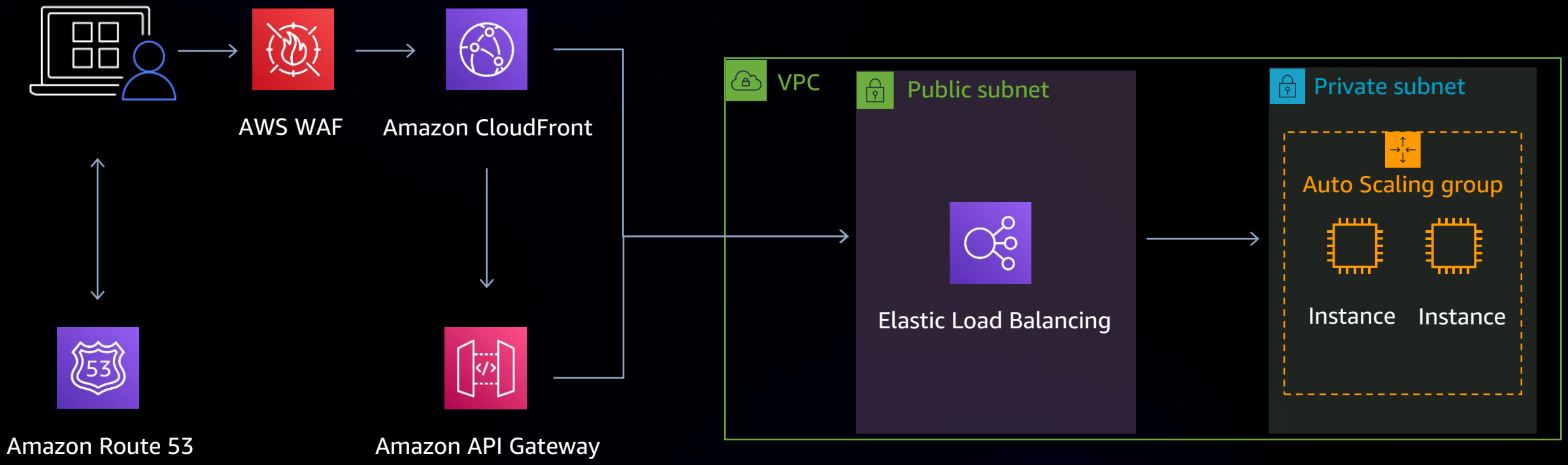
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DDoS resiliency best practices for common web applications



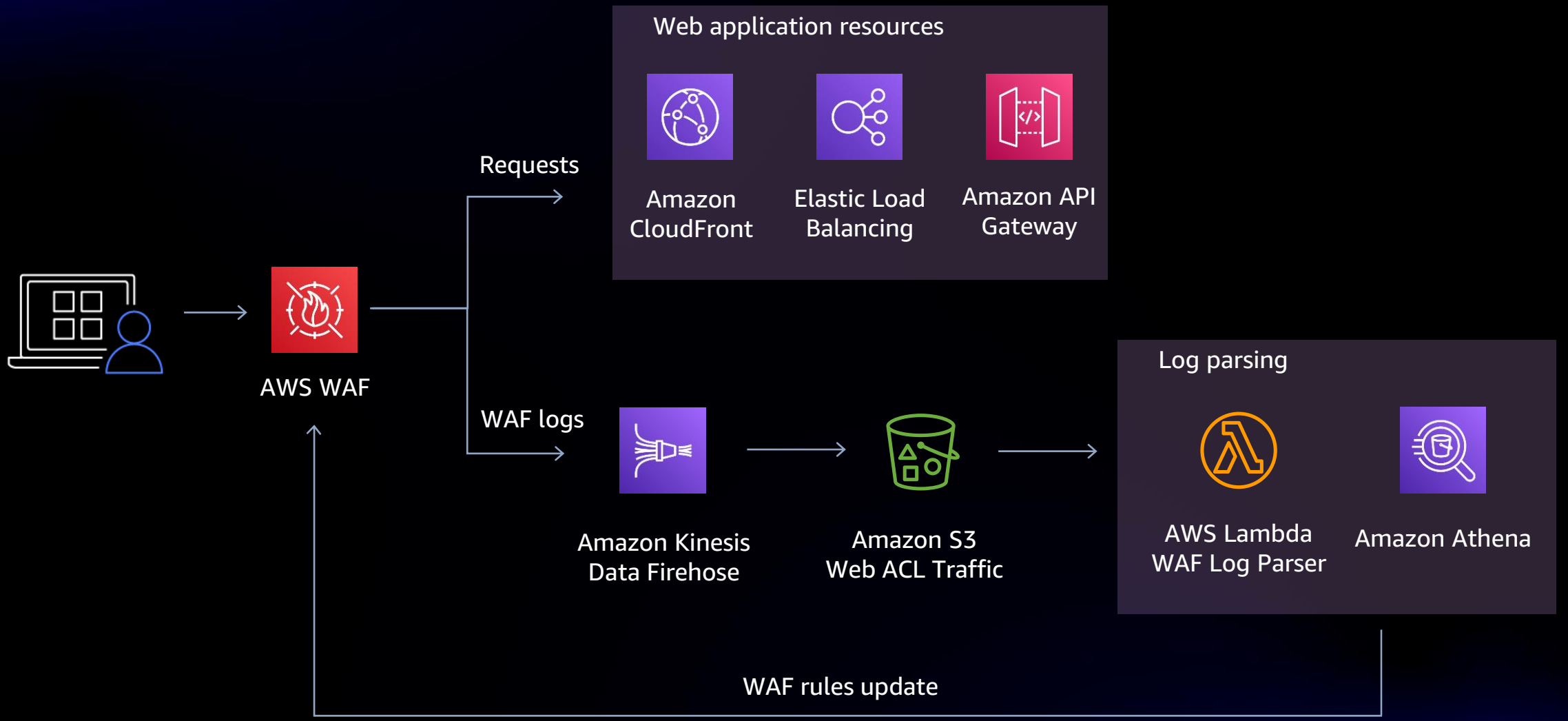
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DDoS resiliency best practices for common web applications



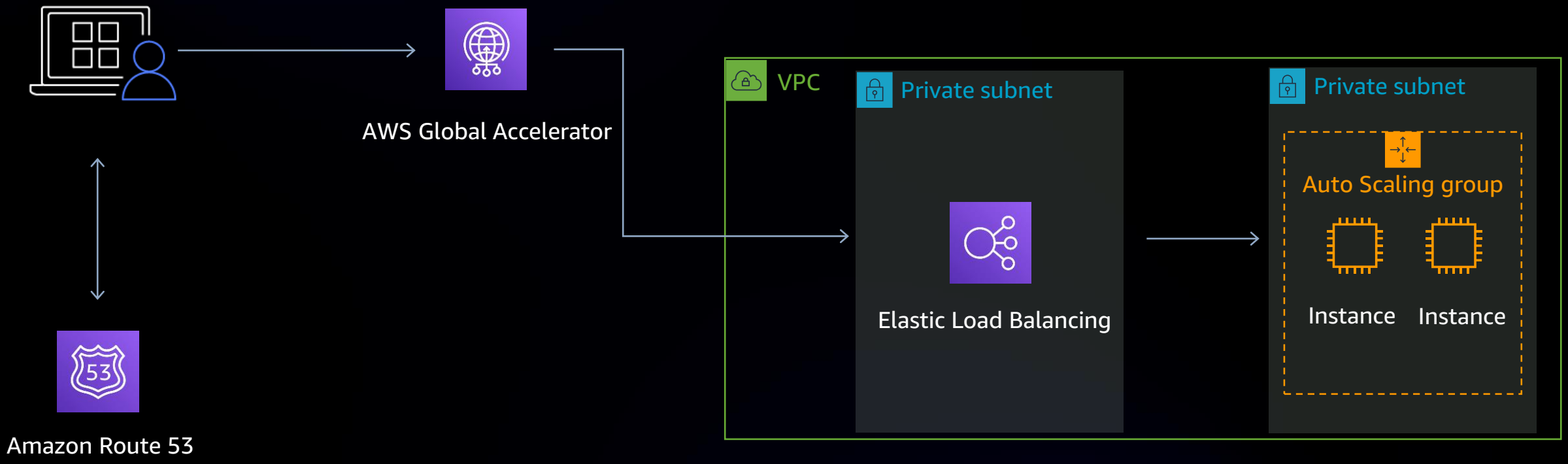
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HTTP flood protection fine tuning



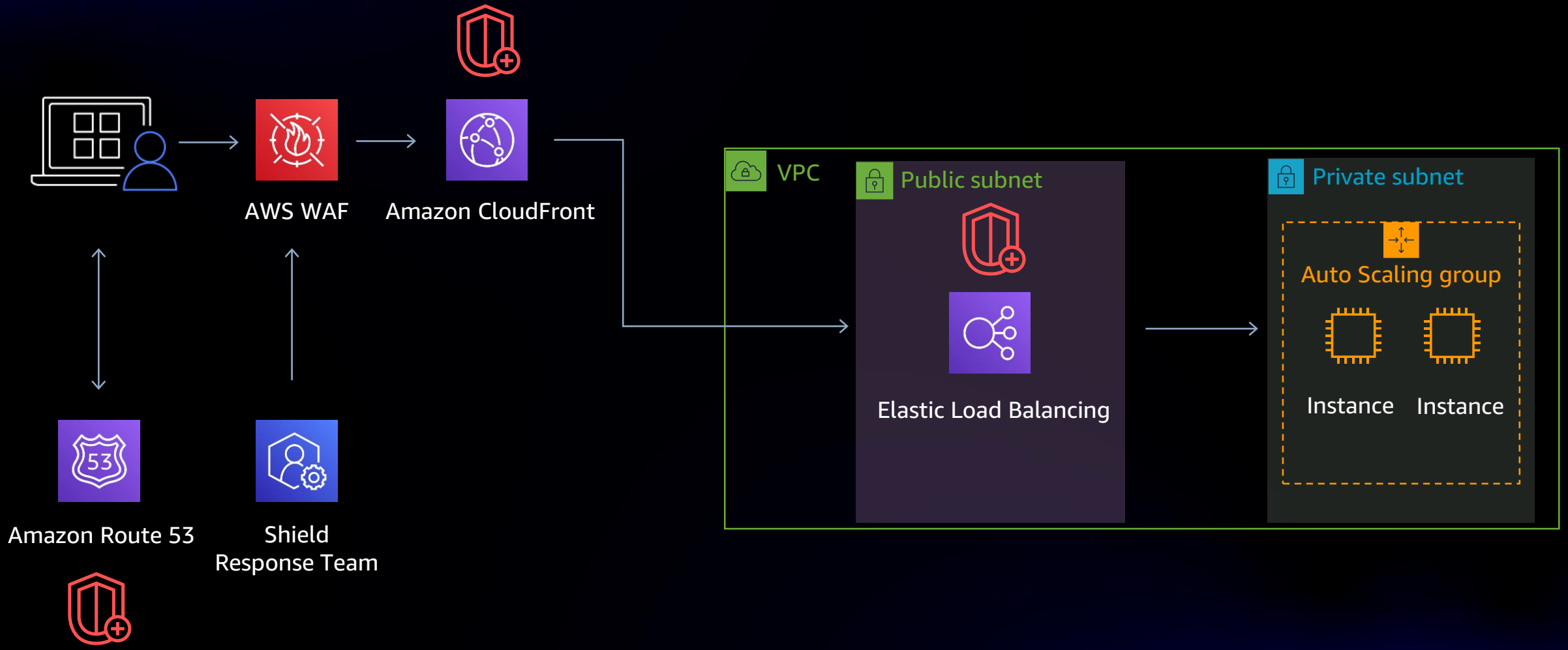
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DDoS resiliency best practices for TCP and UDP applications



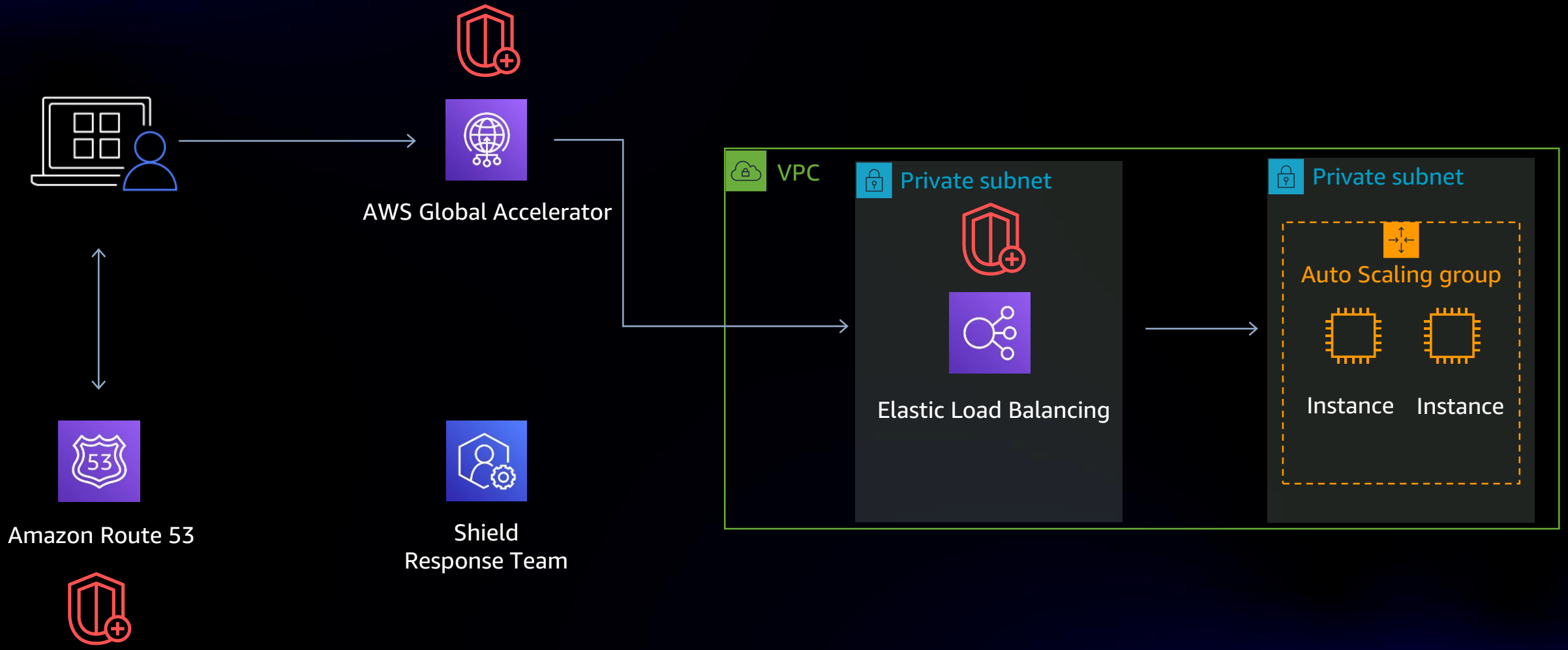
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AWS Shield Advanced



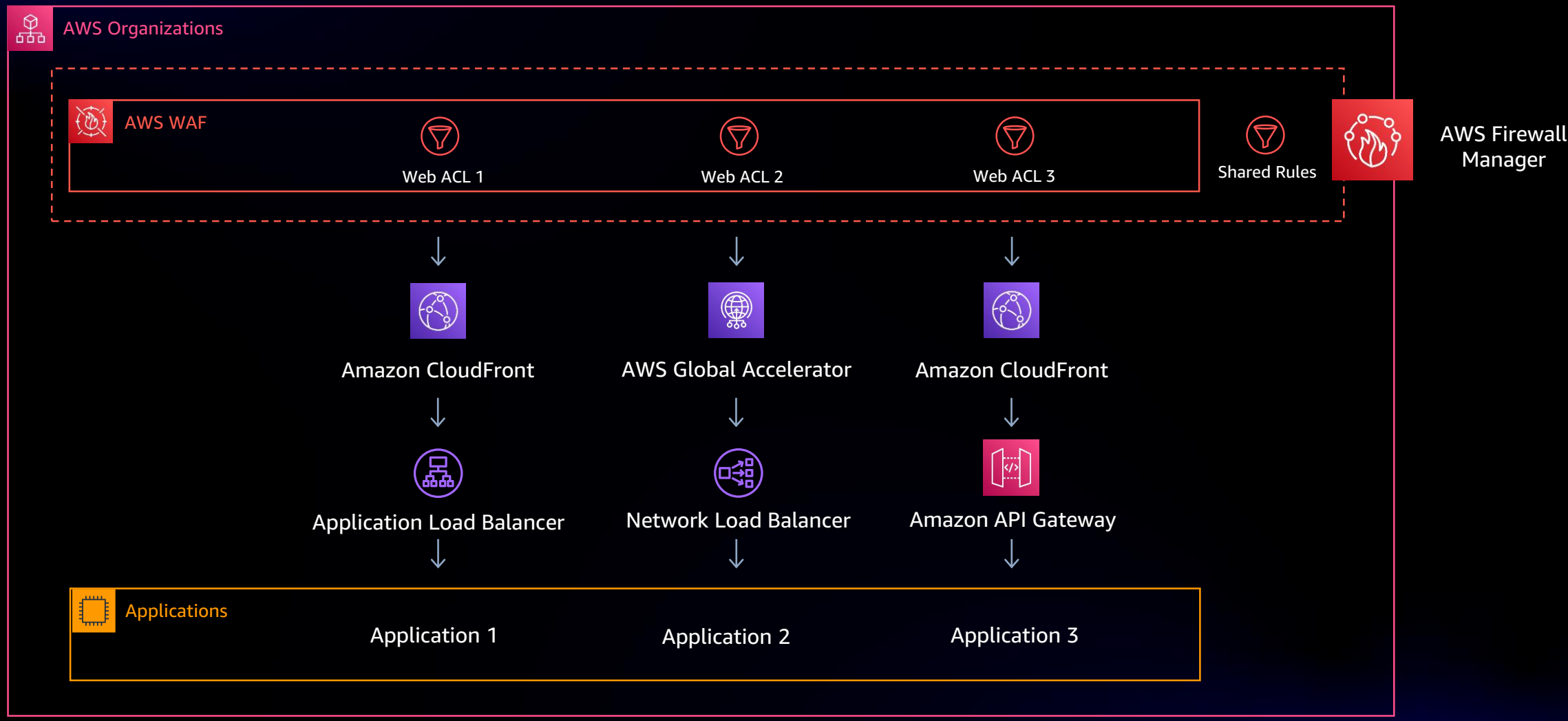
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AWS Shield Advanced



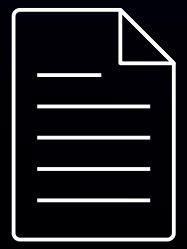
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Protection at scale



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What does a good response plan look like?



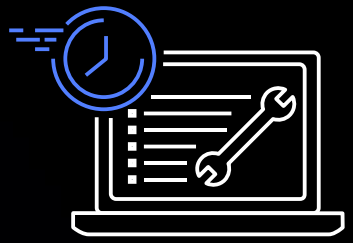
Exists

A plan is the first step



Up to date

Applicable for now



Tested

Practice!

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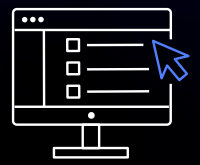
Demo time

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Let’s jump on a drawing board

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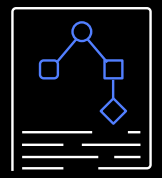
Key learnings



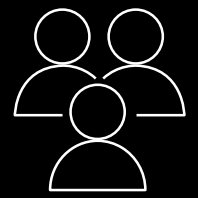
By failing to prepare, you are preparing to fail



Visibility is key for proactive mitigation



Invest in automation



Leverage specialist skills

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Thank you!

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