RL1

CHECK POINT™

JUDGMENT Day by Alanata

AI driven Web and API Security

Showcase: Adapting WAF to Technological Advancements

RL0

Martin Koldovský | Cloud Security Architect, Eastern Europe

May 2025

YOU DESERVE THE BEST SECURITY

Snímka 1

RL0 [@Roy Klein] what’s Infinity Next? That’s not a product in our catalog.

(asking you because I see you created this deck. LML if this q should go to Roy Barda)
Rebecca Lewington; 2025-01-24T00:10:15.913

YM0 0 Hi Rebecca, Infinity Next is the name of the area that Roy Barda is managing.
This area is responsible for CloudGuard WAF.
Do you think it is better to write: Roy Barda | Director, CloudGuard WAF?
Yuval Mamka; 2025-01-26T08:41:01.655

RL0 1 That is much better. Thanks, [@Yuval Mamka] . (We need to get people out of the habit of casually naming these kind of things without consulting Brand.)
Rebecca Lewington; 2025-01-27T18:54:55.219

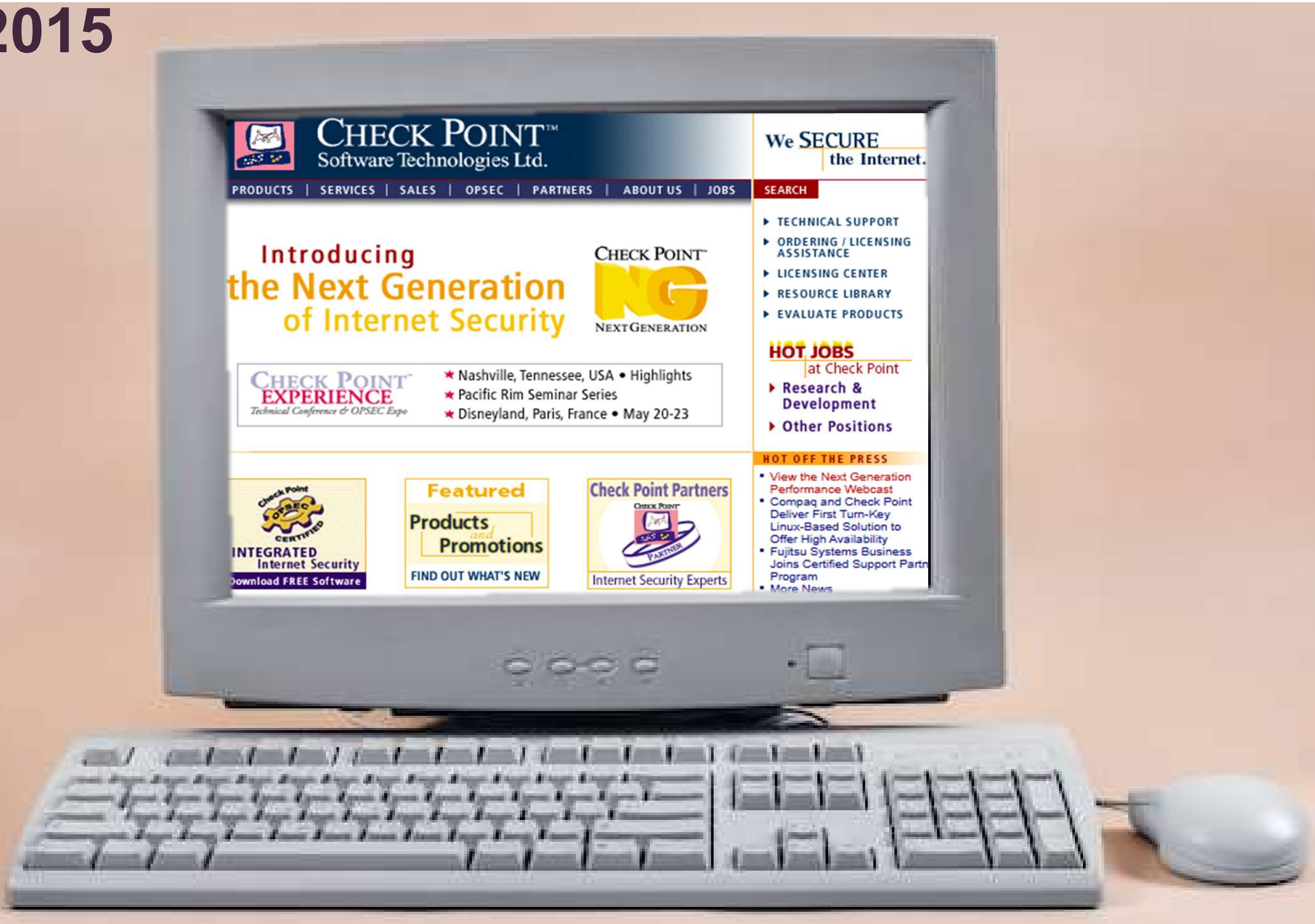
RL1 Quick brand scrub. Nothing major, just changed all fonts to Arial and fixed a few logo issues
Rebecca Lewington; 2025-01-24T00:25:23.988

YM1 0 Thank you!
Yuval Mamka; 2025-01-26T08:41:08.358

Today’s Agenda

- Introduction: Traditional Signature-Based Defenses
- Shift in Threat Landscape: Zero-Day Exploits and Limitations of Signatures
- API Security as the New Battlefield
- AI-Driven Threats: Why Advanced Detection is Essential

2000-2015



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at Check Point

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- Other Positions

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- Compaq and Check Point Deliver First Turn-Key Linux-Based Solution to Offer High Availability
- Fujitsu Systems Business Joins Certified Support Partn
Program
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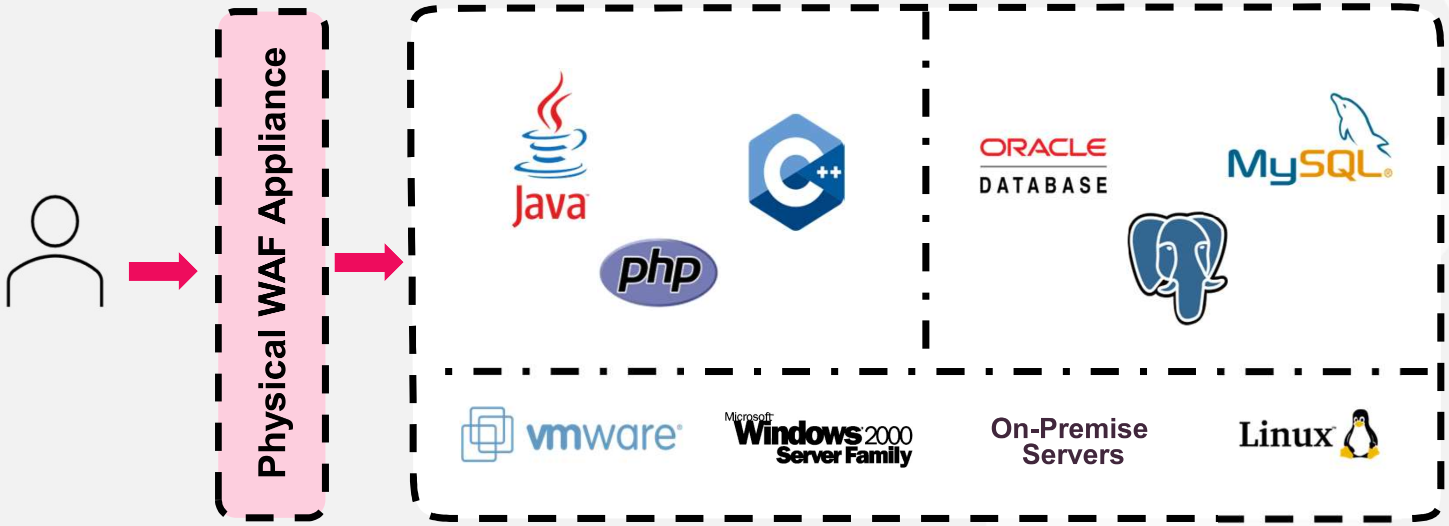
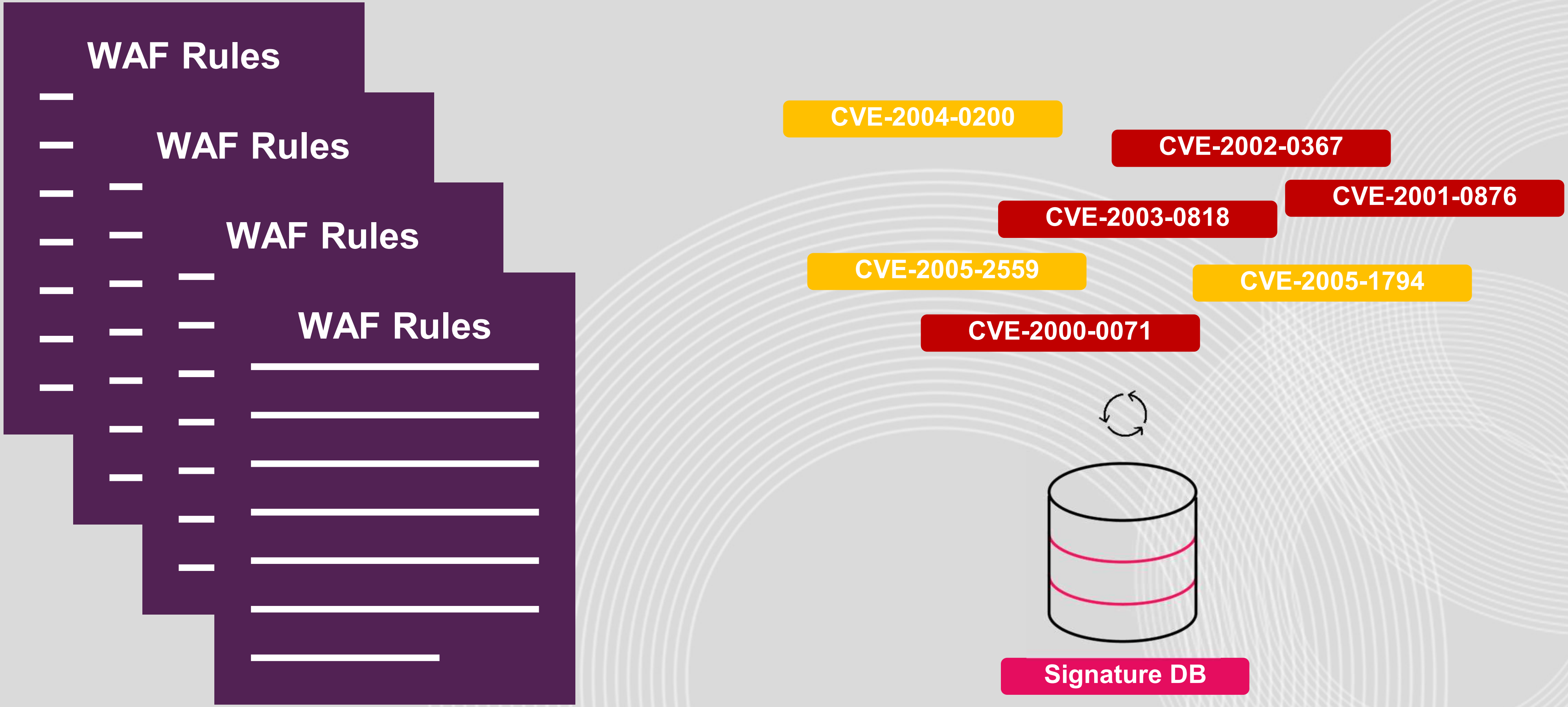
Web Applications Built as Monolithic with a Single Database



Fewer Technologies
Simple attack vectors

WAFs Depended on Rules & Signature Updates



WAF Rules

WAF Rules

WAF Rules

WAF Rules

CVE-2004-0200

CVE-2002-0367

CVE-2001-0876

CVE-2003-0818

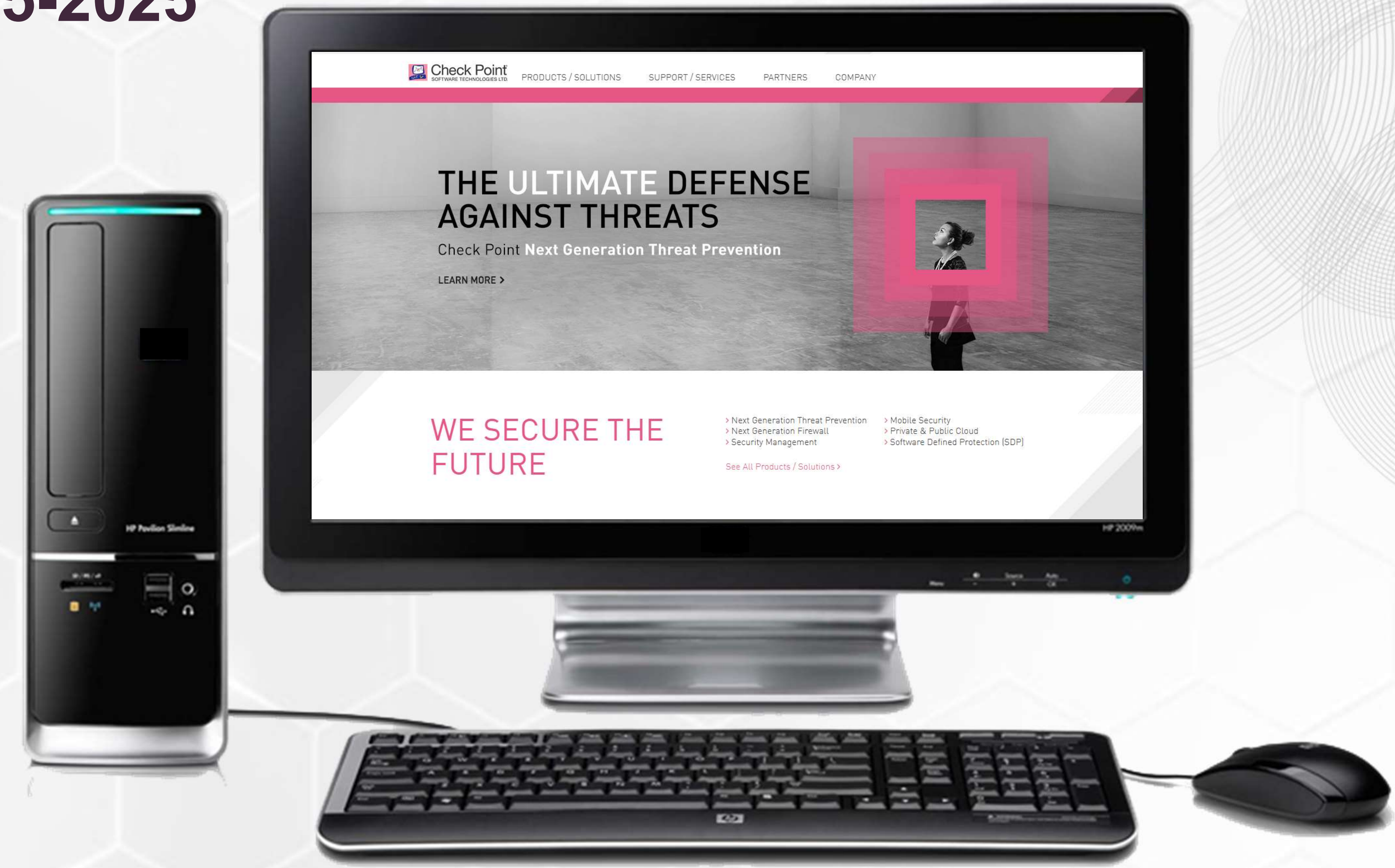
CVE-2005-2559

CVE-2005-1794

CVE-2000-0071

Signature DB

2015-2025



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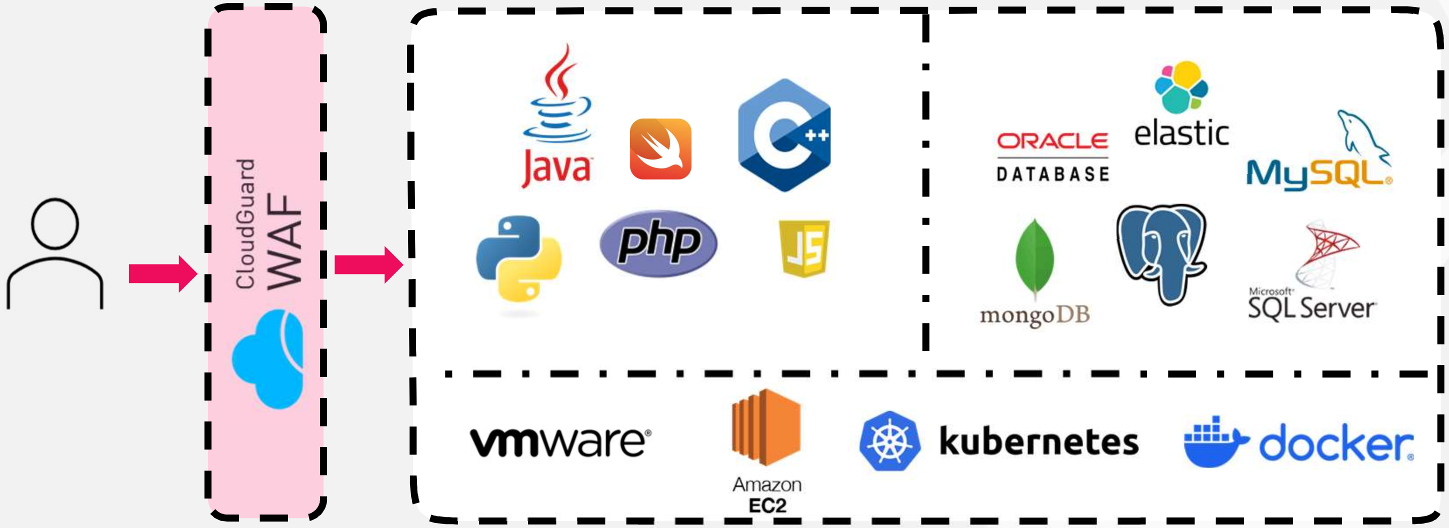
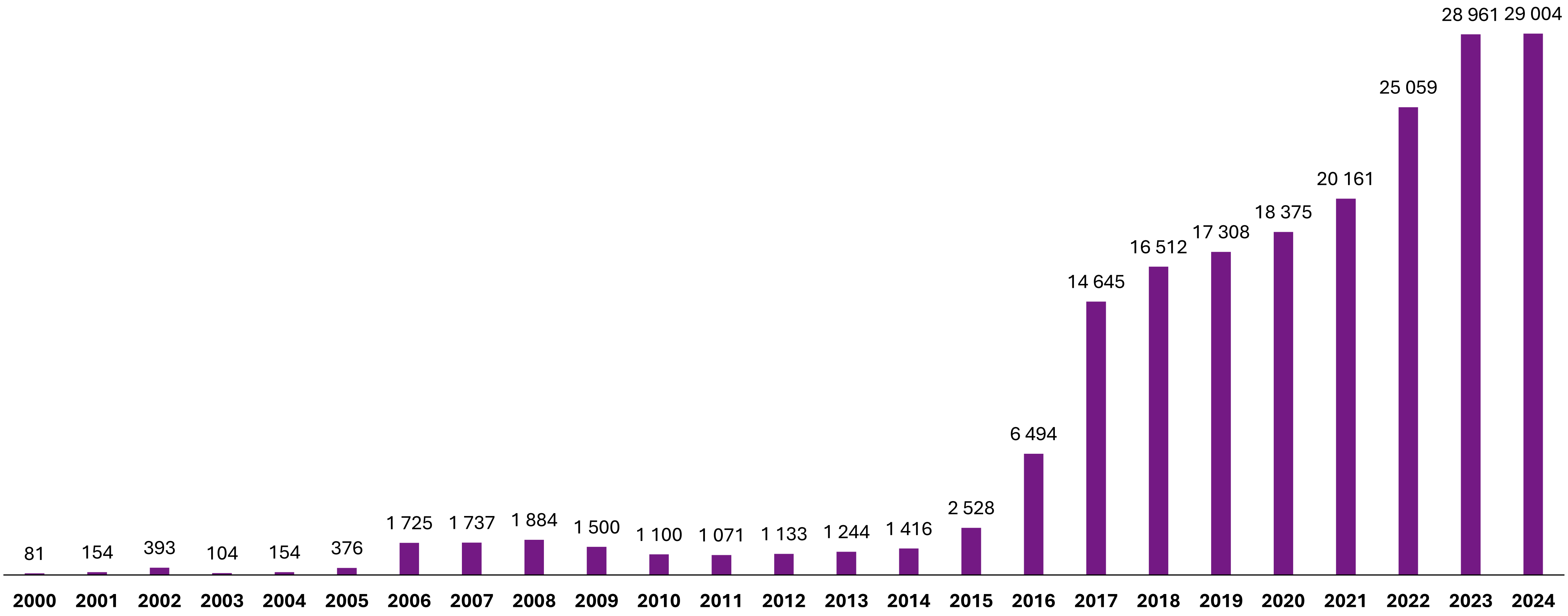
Web Applications Built with Multiple Technologies



Multiple Technologies
More Vulnerabilities

RL0

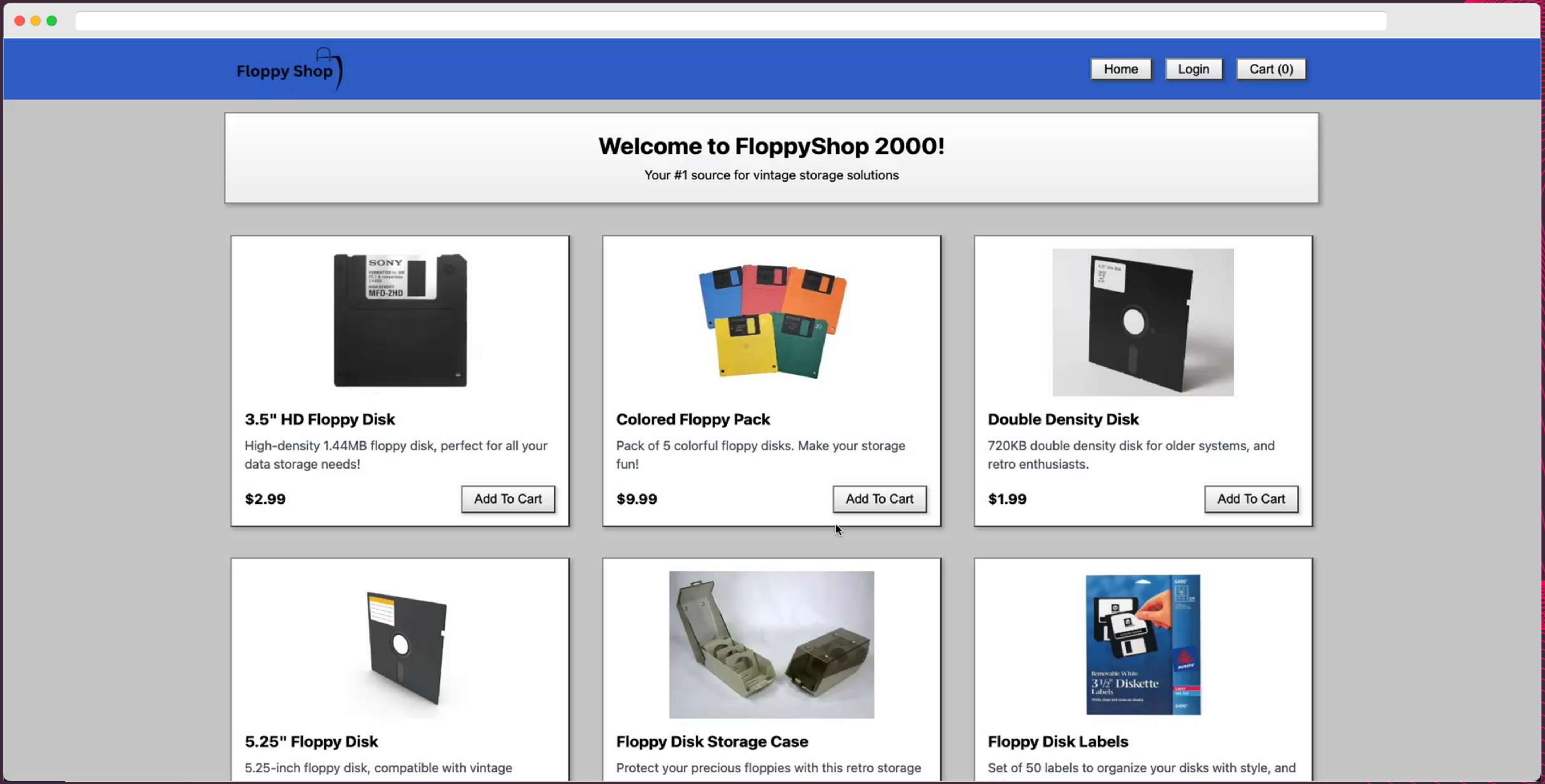
Number of CVEs Published Over the Years



Snímka 8

RL0 I changed the series color to one of our secondaries. We try not to use Brand Berry for bad things!

Rebecca Lewington; 2025-01-24T00:12:07.998



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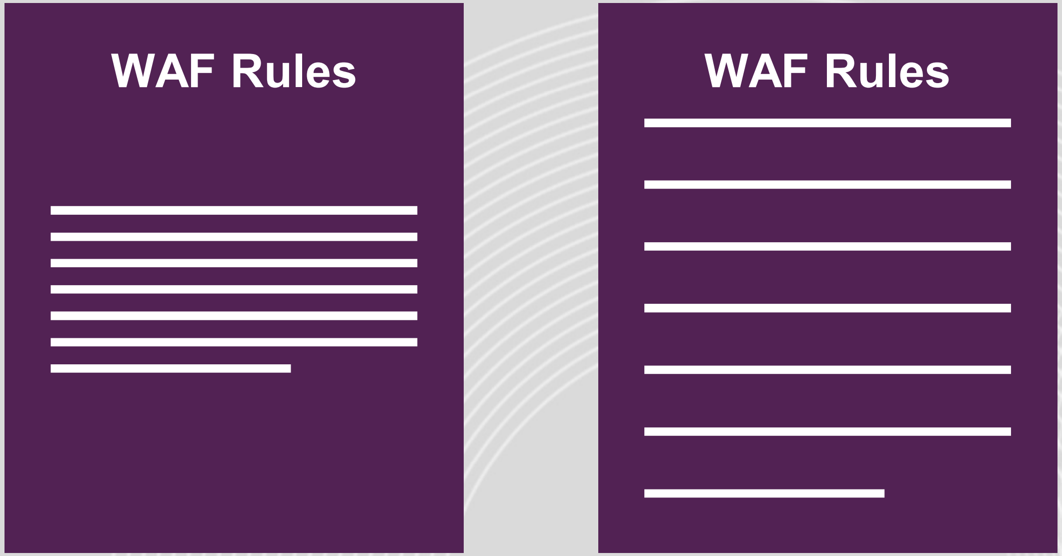
Traditional WAF Solutions Depend on the Ongoing Maintenance of Rules & Signature Updates

Too Specific Rules Leads to Overlooked Threat Variations and Demand Adding More Rules to Address Them



WAF Rules

WAF Rules

Too Loose Rules Leads to Overload of False Positives and Demand Adding Many Exceptions

Ongoing Maintenance of Rules & Signatures
Just Doesn’t Work

Traditional WAF Solutions **Leave You Vulnerable to Zero Day Attacks For Days or Even Weeks**

Traditional WAF Solutions Often Struggle to Detect All Malicious Traffic, **Leaving Vulnerabilities Exposed**

Most WAF users operate in Detect mode due to the high false positive rate, while those in Prevent mode face significant admin overhead.

Based on: WAF comparison Project

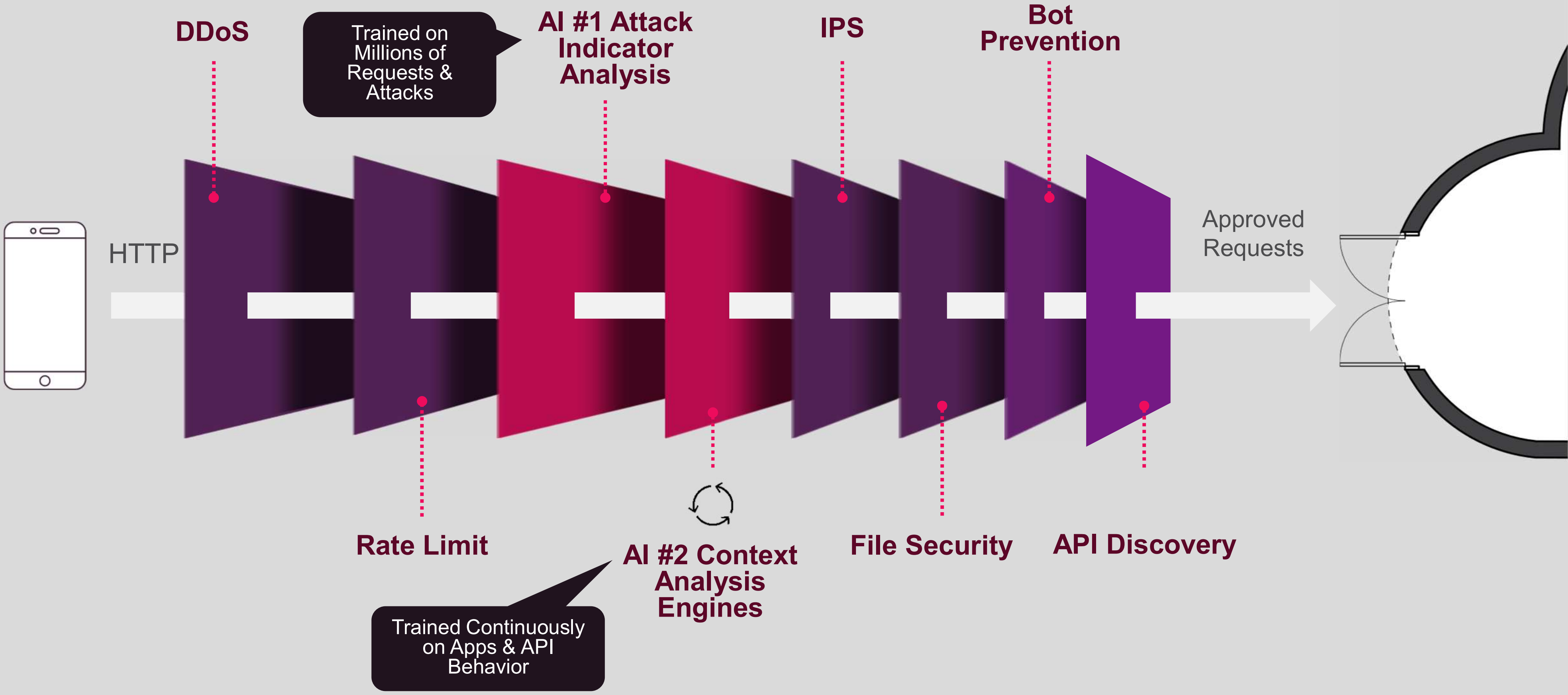
When You Choose Cloud Service Providers’ WAF
You Multiply Your Efforts & Lose Consistency

WAF Rules

WAF Rules

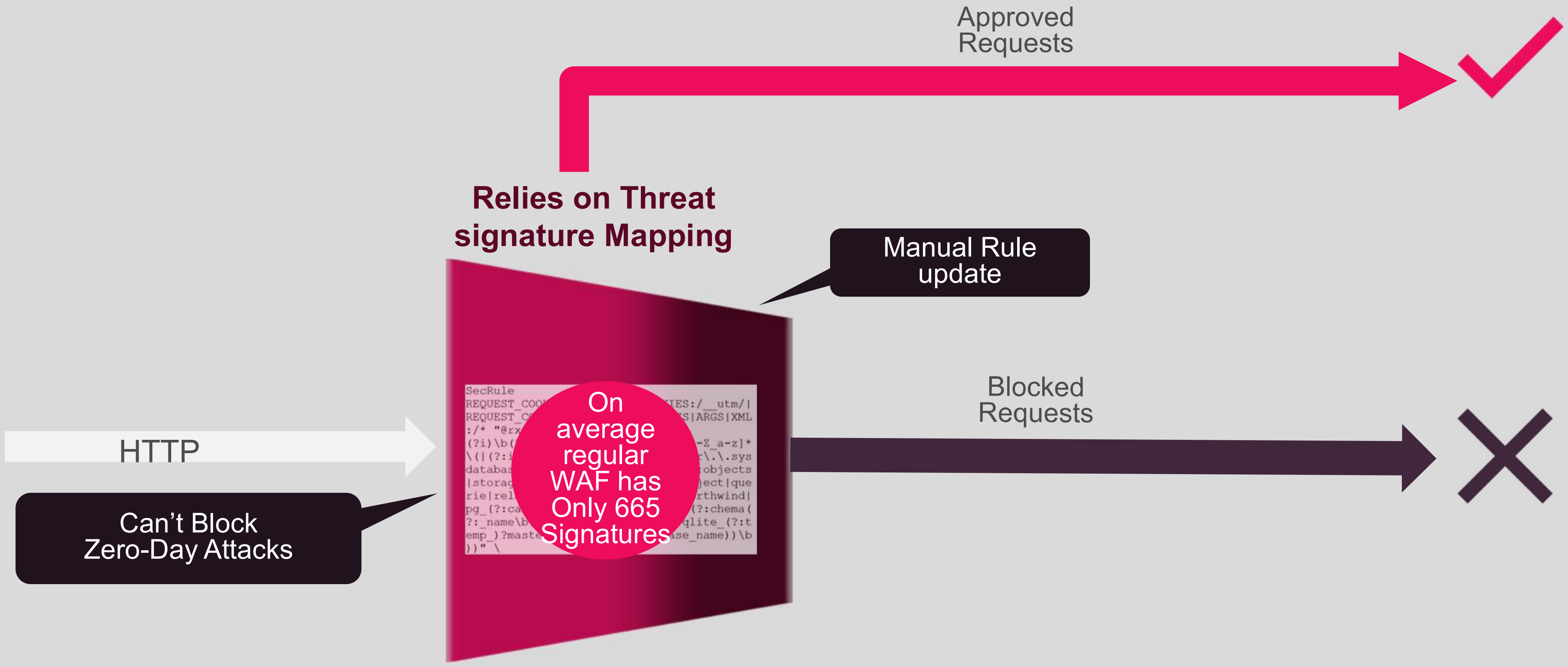
WAF Rules

Comprehensive Web Application & API Security



DDoS
Trained on Millions of Requests & Attacks
AI #1 Attack Indicator Analysis
IPS
Bot Prevention
HTTP
Approved Requests
Rate Limit
AI #2 Context Analysis Engines
File Security
API Discovery
Trained Continuously on Apps & API Behavior

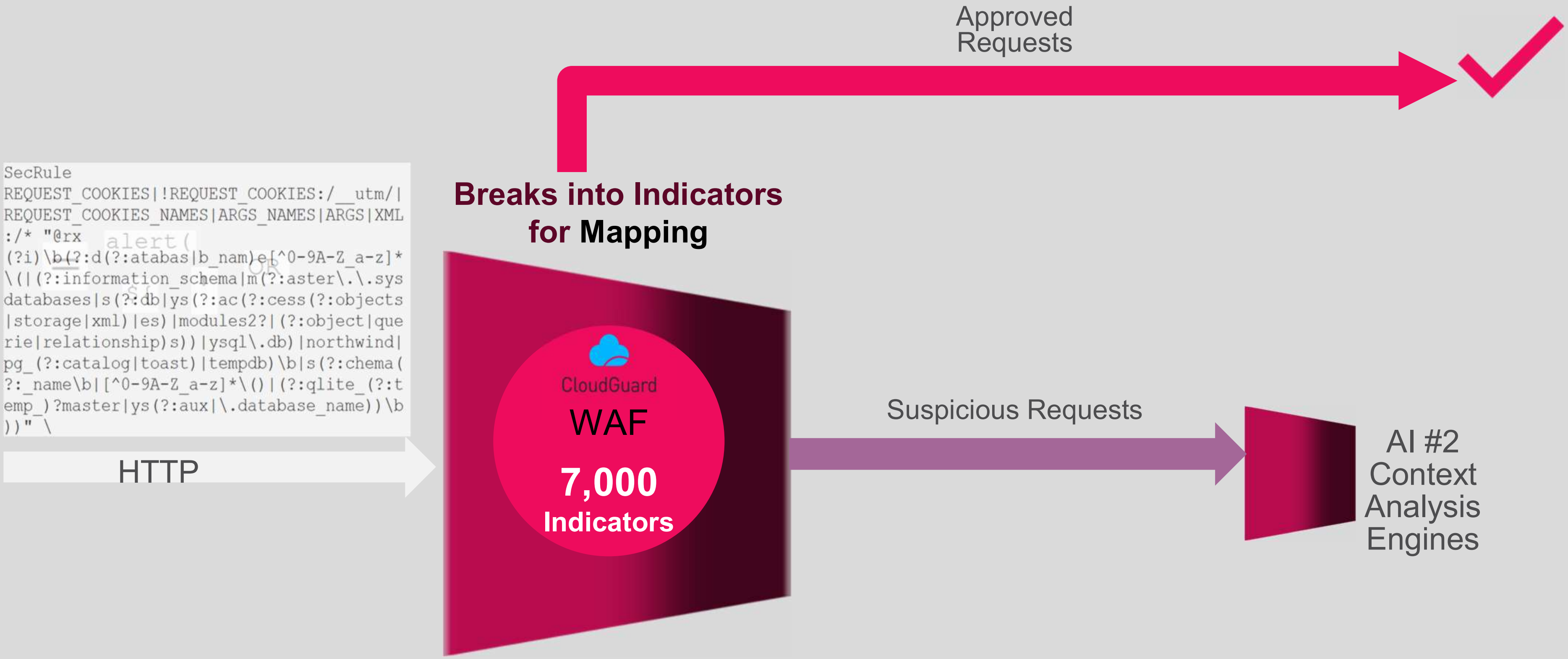
How does Signature/Manual Rules WAF work?



Approved Requests
Relies on Threat signature Mapping
Manual Rule update
Blocked Requests
HTTP
Can’t Block Zero-Day Attacks
On average regular WAF has Only 665 Signatures

```
SecRule
REQUEST_COO                     IES:/__utm/|
REQUEST_C                       S|ARGS|XML
:/* "@rx
(?i)\b(                         -Z_a-z]*
\(|(?:i                         r\.\.sys
databas                         objects
|storag                         ject|que
rie|rel                         rthwind|
pg_(?:ca                        (?:chema(
?:_name\b                       qlite_(?:t
emp_)?maste                     ase_name))\b
))" \
```

AI #1 Attack Indicator Analysis

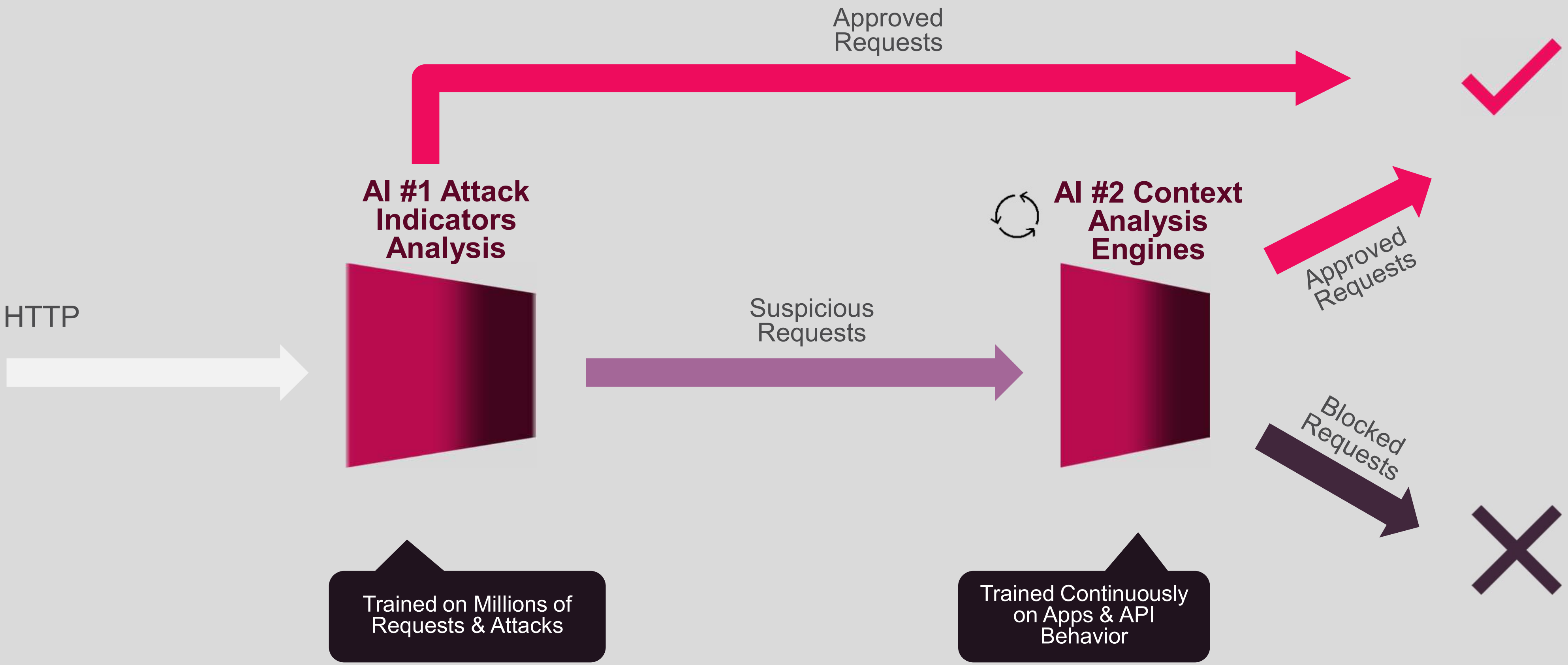


```
SecRule
REQUEST_COOKIES|!REQUEST_COOKIES:/__utm/|
REQUEST_COOKIES_NAMES|ARGS_NAMES|ARGS|XML
:/* "@rx
(?i)\b(?:d(?:atabas|b_nam)e[^0-9A-Z_a-z]*
\(|(?:information_schema|m(?:aster\.\.sys
databases|s(?:db|ys(?:ac(?:cess(?:objects
|storage|xml)|es)|modules2?|(?:object|que
rie|relationship)s))|ysql\.db)|northwind|
pg_(?:catalog|toast)|tempdb)\b|s(?:chema(
?:_name\b|[^0-9A-Z_a-z]*\()|(?:qlite_(?:t
emp_)?master|ys(?:aux|\.database_name))\b
))" \
```

Preemptive Zero-Day Prevention

Fully Automated

CloudGuard WAF is Based on
Cascade Machine Learning Technology



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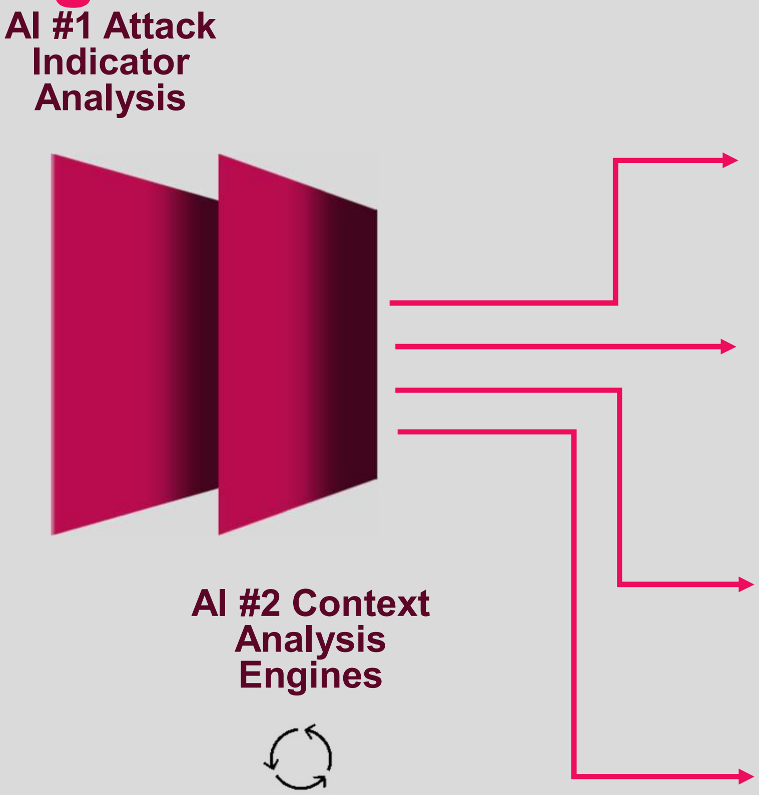
2nd AI Consists of 4 Context Analysis Engines


AI #1 Attack Indicator Analysis
AI #2 Context Analysis Engines

User Behavior

Compare the user behavior baseline to assess malicious intent from prior user requests

Crowd Behavior

Continuous learning of users' activity with a good reputation, which allow us to auto adapt to the application

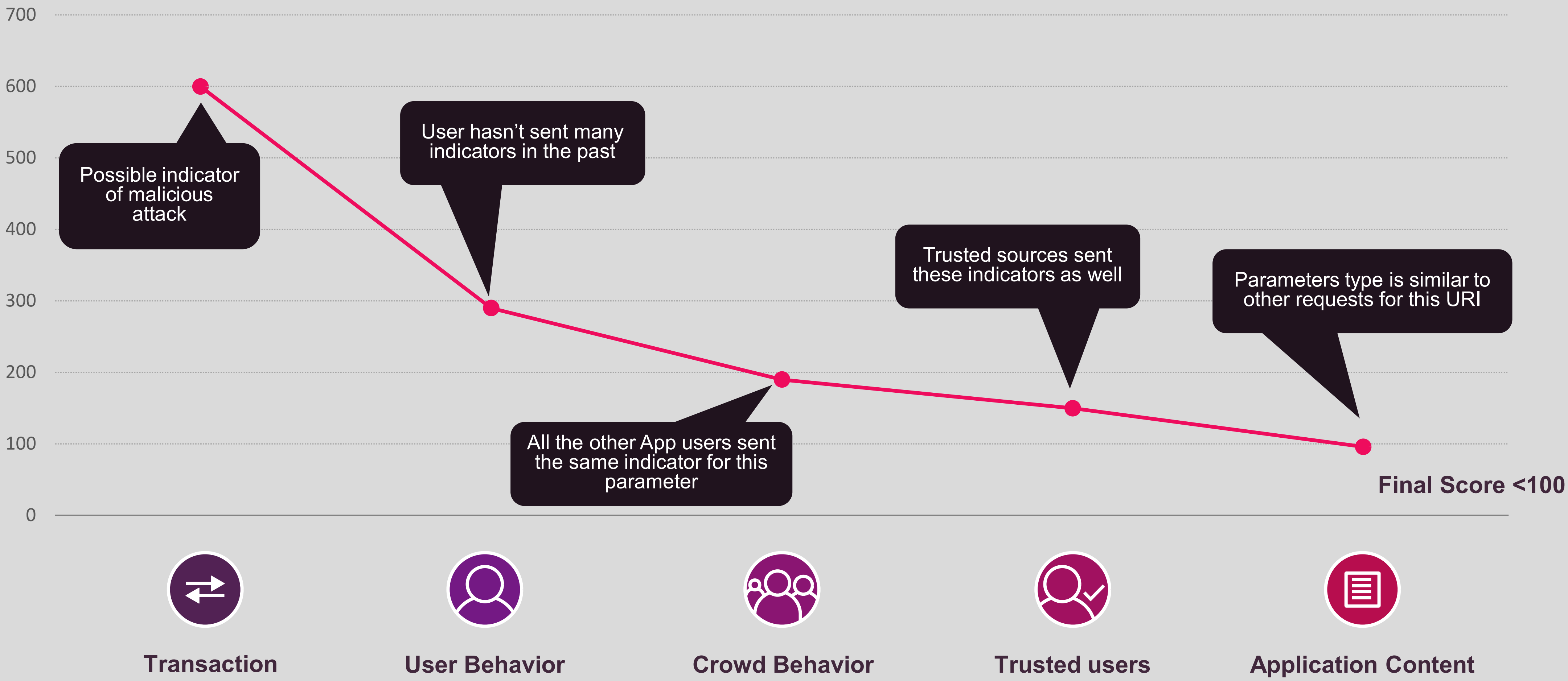
Trusted users

Acceleration of application learning with creation of allow list of permitted inputs from trusted users

Application Content

Unsupervised learning of fields types and values

Context Analysis Engines Reduce False Positives



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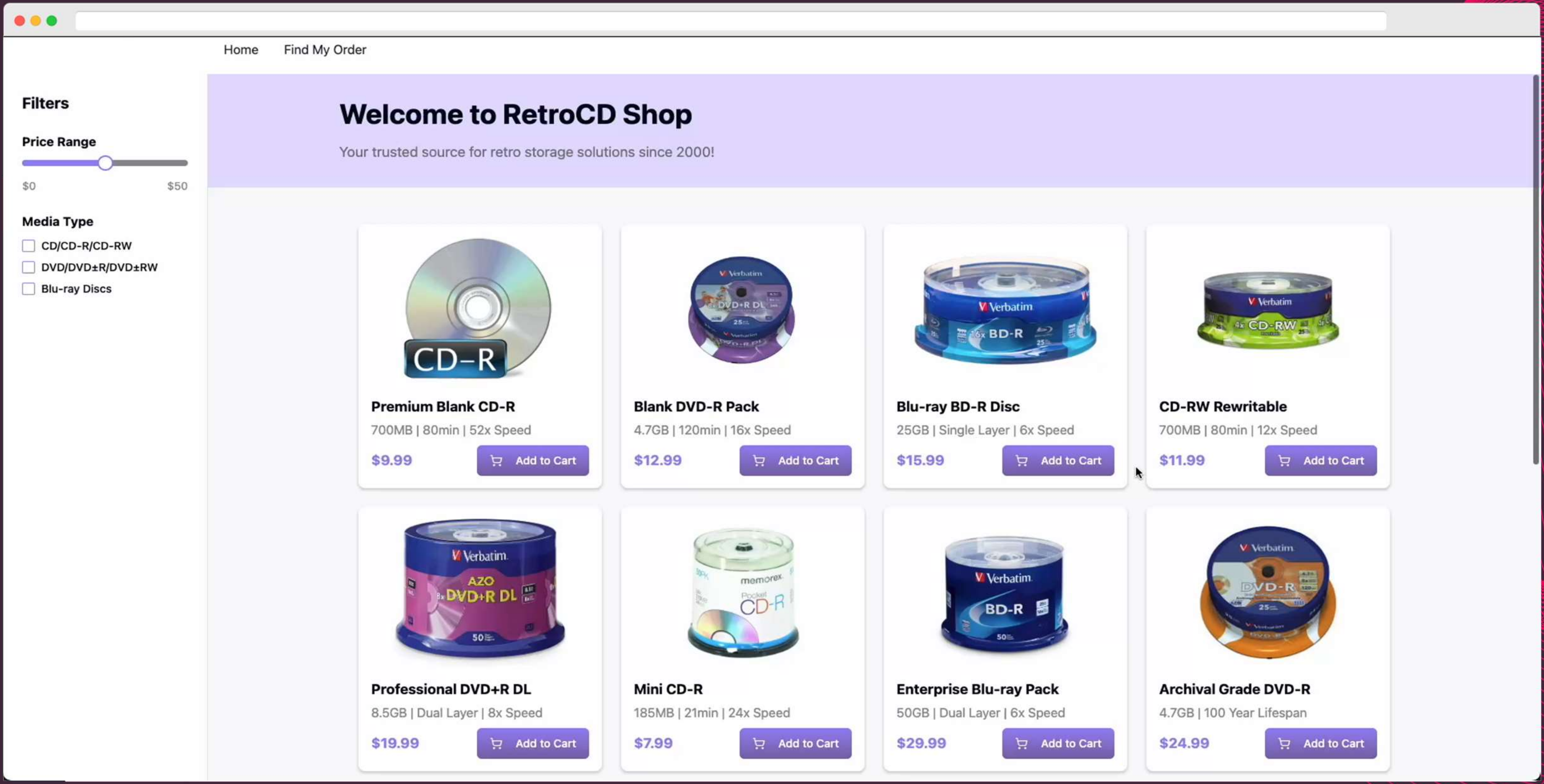
No More Manual Rules & Signature Updates

Relying on **Rules & Signature Updates**	Automatic **AI-Based WAF** Management
Reacting to **Zero Day Attacks**	**Preemptive** Zero-Day Prevention
Missing Malicious Traffic	**Nearly Perfect** Detection Rate
Blocking Legitimate Traffic	**Nearly Zero** False Positives
Wide API attack surface	Automatic API Discovery & Security

CHECK POINT



Filters

Price Range

$0 $50

Media Type

□ CD/CD-R/CD-RW

□ DVD/DVD±R/DVD±RW

□ Blu-ray Discs

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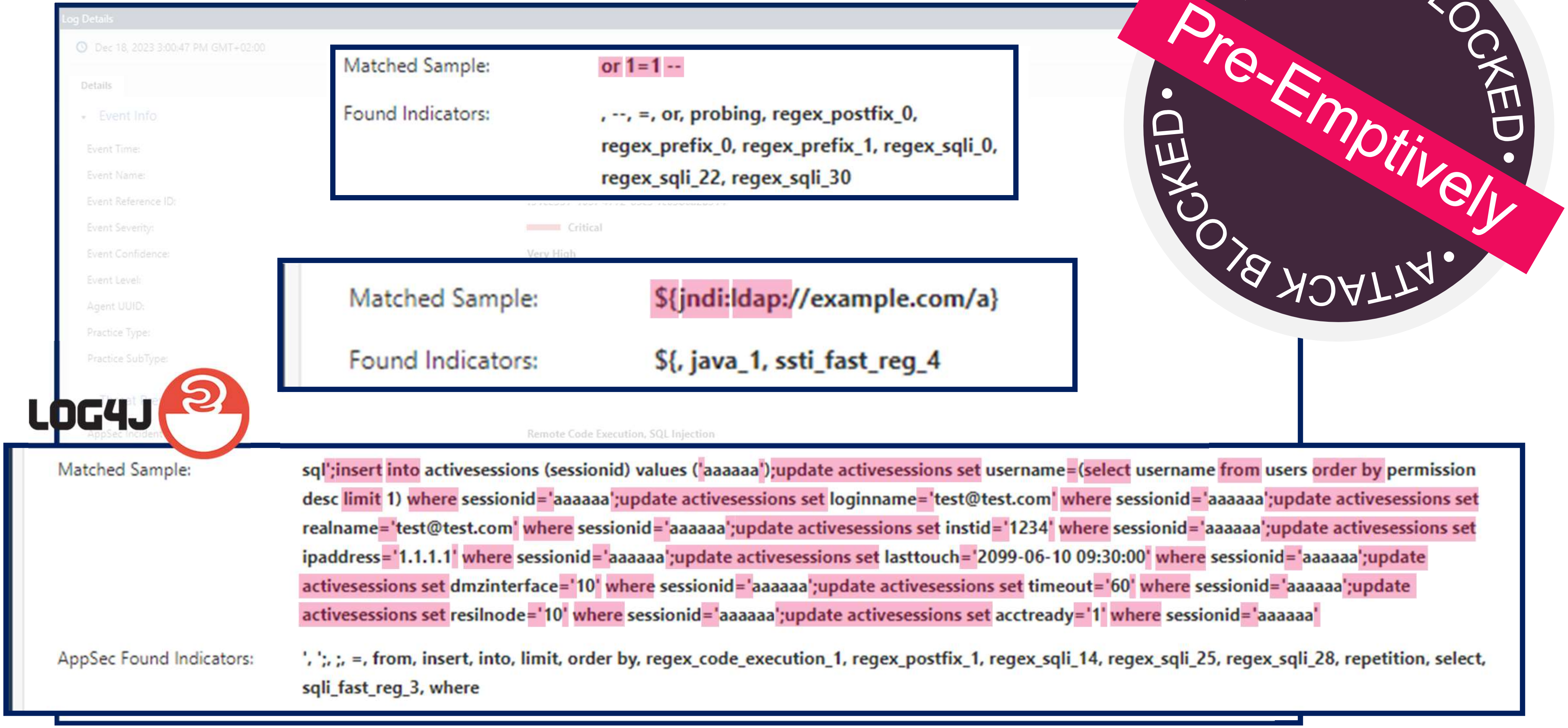
Real World Scenarios



Log Details

Dec 18, 2023 3:00:47 PM GMT+02:00

Details

Event Info

Event Time:

Event Name:

Event Reference ID:

Event Severity: Critical

Event Confidence: Very High

Event Level:

Agent UUID:

Practice Type:

Practice SubType:

AppSec Incident: Remote Code Execution, SQL Injection

Matched Sample: or 1=1 --

Found Indicators: , --, =, or, probing, regex_postfix_0, regex_prefix_0, regex_prefix_1, regex_sqli_0, regex_sqli_22, regex_sqli_30

Matched Sample: ${jndi:ldap://example.com/a}

Found Indicators: ${, java_1, ssti_fast_reg_4

LOG4J

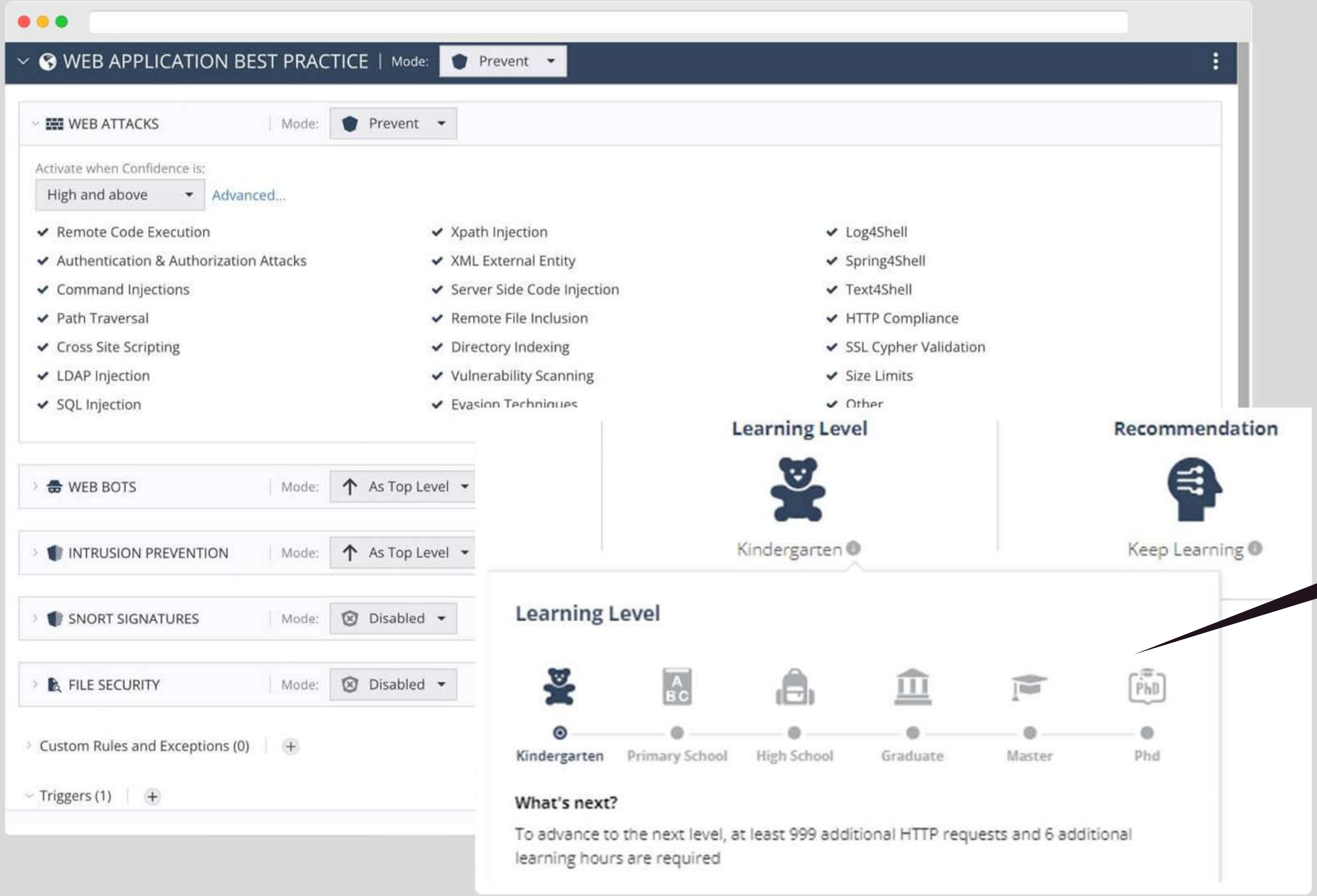
Matched Sample: sql';insert into activesessions (sessionid) values ('aaaaaa');update activesessions set username=(select username from users order by permission desc limit 1) where sessionid='aaaaaa';update activesessions set loginname='test@test.com' where sessionid='aaaaaa';update activesessions set realname='test@test.com' where sessionid='aaaaaa';update activesessions set instid='1234' where sessionid='aaaaaa';update activesessions set ipaddress='1.1.1.1' where sessionid='aaaaaa';update activesessions set lasttouch='2099-06-10 09:30:00' where sessionid='aaaaaa';update activesessions set dmzinterface='10' where sessionid='aaaaaa';update activesessions set timeout='60' where sessionid='aaaaaa';update activesessions set resilnode='10' where sessionid='aaaaaa';update activesessions set acctready='1' where sessionid='aaaaaa'

AppSec Found Indicators: ', ';, ;, =, from, insert, into, limit, order by, regex_code_execution_1, regex_postfix_1, regex_sqli_14, regex_sqli_25, regex_sqli_28, repetition, select, sqli_fast_reg_3, where

• ATTACK BLOCKED • ATTACK BLOCKED

Pre-Emptively

CloudGuard Continuously Learns Specific Apps & API Behavior



WEB APPLICATION BEST PRACTICE | Mode: Prevent

WEB ATTACKS | Mode: Prevent

Activate when Confidence is: High and above

Advanced...

- ✓ Remote Code Execution
- ✓ Authentication & Authorization Attacks
- ✓ Command Injections
- ✓ Path Traversal
- ✓ Cross Site Scripting
- ✓ LDAP Injection
- ✓ SQL Injection
- ✓ Xpath Injection
- ✓ XML External Entity
- ✓ Server Side Code Injection
- ✓ Remote File Inclusion
- ✓ Directory Indexing
- ✓ Vulnerability Scanning
- ✓ Evasion Techniques
- ✓ Log4Shell
- ✓ Spring4Shell
- ✓ Text4Shell
- ✓ HTTP Compliance
- ✓ SSL Cypher Validation
- ✓ Size Limits
- ✓ Other

WEB BOTS | Mode: As Top Level

INTRUSION PREVENTION | Mode: As Top Level

SNORT SIGNATURES | Mode: Disabled

FILE SECURITY | Mode: Disabled

Custom Rules and Exceptions (0)

Triggers (1)

Learning Level: Kindergarten

Recommendation: Keep Learning

Learning Level

Kindergarten — Primary School — High School — Graduate — Master — Phd

What's next?

To advance to the next level, at least 999 additional HTTP requests and 6 additional learning hours are required

Ready to Prevent Attacks Within Three Days of Deployment

Learning Level is Displayed in The WAF Management Platform

Est. Learning Period <3 Days

Comprehensive Web Application & API Security

AI #1 Attack Indicator Analysis

Prevent application & API attacks including OWASP Top 10 using contextual AI

Check Point Exclusive

AI #2 Context Analysis Engines

Eliminate False Positives & Keep High Detection Rate By Learning Applications & APIs Behavior

Check Point Exclusive

DDoS

DDoS attack prevention is now available for CloudGuard WAF SaaS deployment

Rate Limit

Limit the number of requests to an API/App resource within a configured time, scope to block DDoS attacks

IPS

Update your defenses with the latest compromise indicators with 50+ engines packed with AI-based Features and Capabilities

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File Security

Analyze any files uploaded and consult Check Point's ThreatCloud regarding the file's reputation.

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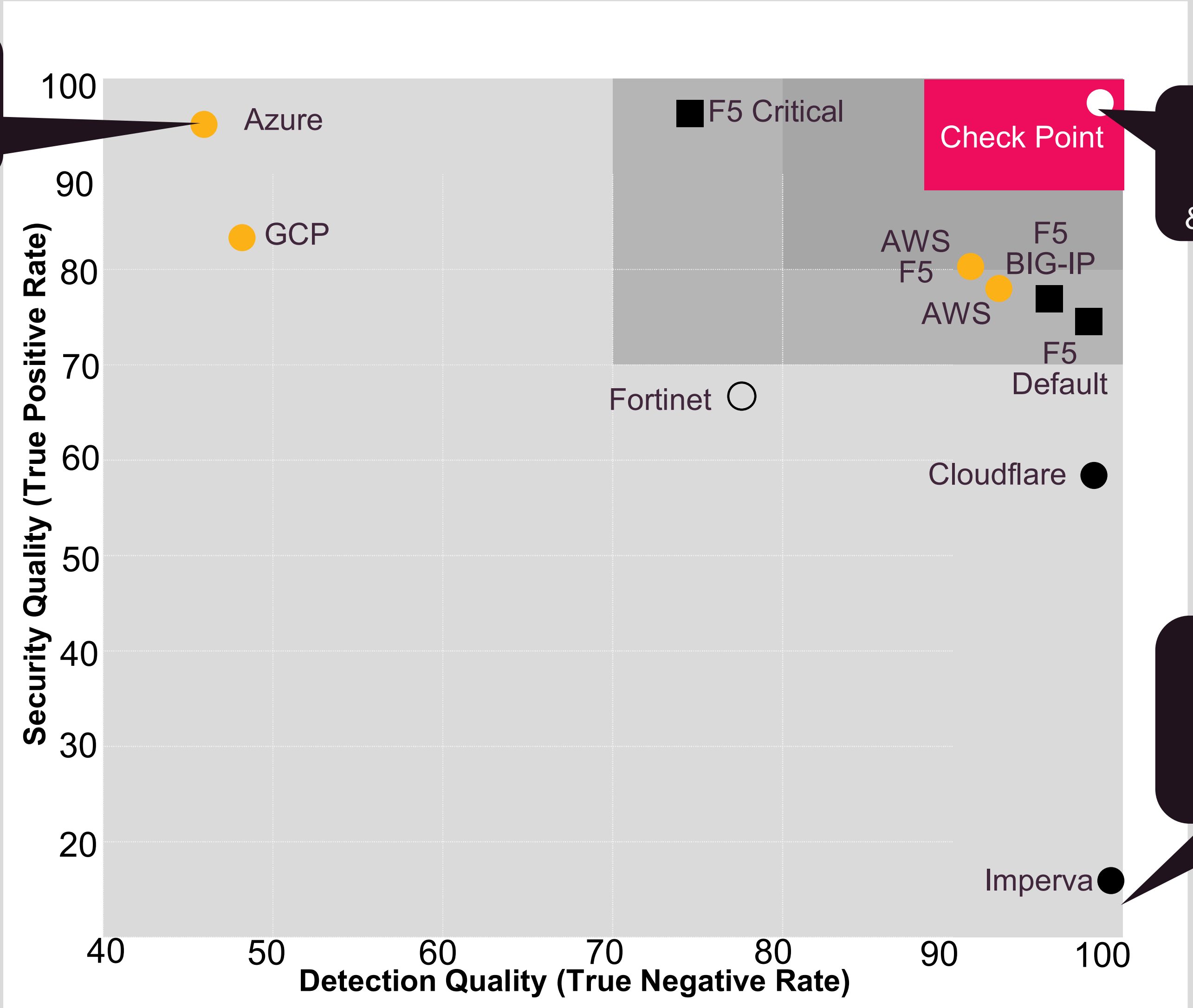
Bot Prevention

Stop automated attacks, Inclusive of user credential abuse

API Discovery

API runtime inspection, discovery with auto generated SWAGGER schema, sensitive data detection, and schema enforcement

With Check Point WAF You Can Differentiate Yourself in the Market



High Detection Rate
BUT
Many False Positives

ALMOST PERFECT
Detection Rate
& False Positives

Few False Positives
BUT
Low Detection Rate

1,040,242

Legitimate HTTP requests

73,924

Malicious payloads

Labels:

1. CSP Native WAF ●
2. F5 Different WAF ■
3. Popular WAF ●
4. Other WAFs ○

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Unmatched Prevention Results

CloudGuard WAF

Check Point WAF

99.4% vs 86.6%

Highest Threat Detection vs Top WAFs

0.81% vs 8.69%

Lowest False Positives vs Top WAFs

Preemptive **Prevention of Top** Zero Day Attacks in Recent Years

spring 4Shell

Sprint4Shell

LOG4J

Log4Shell

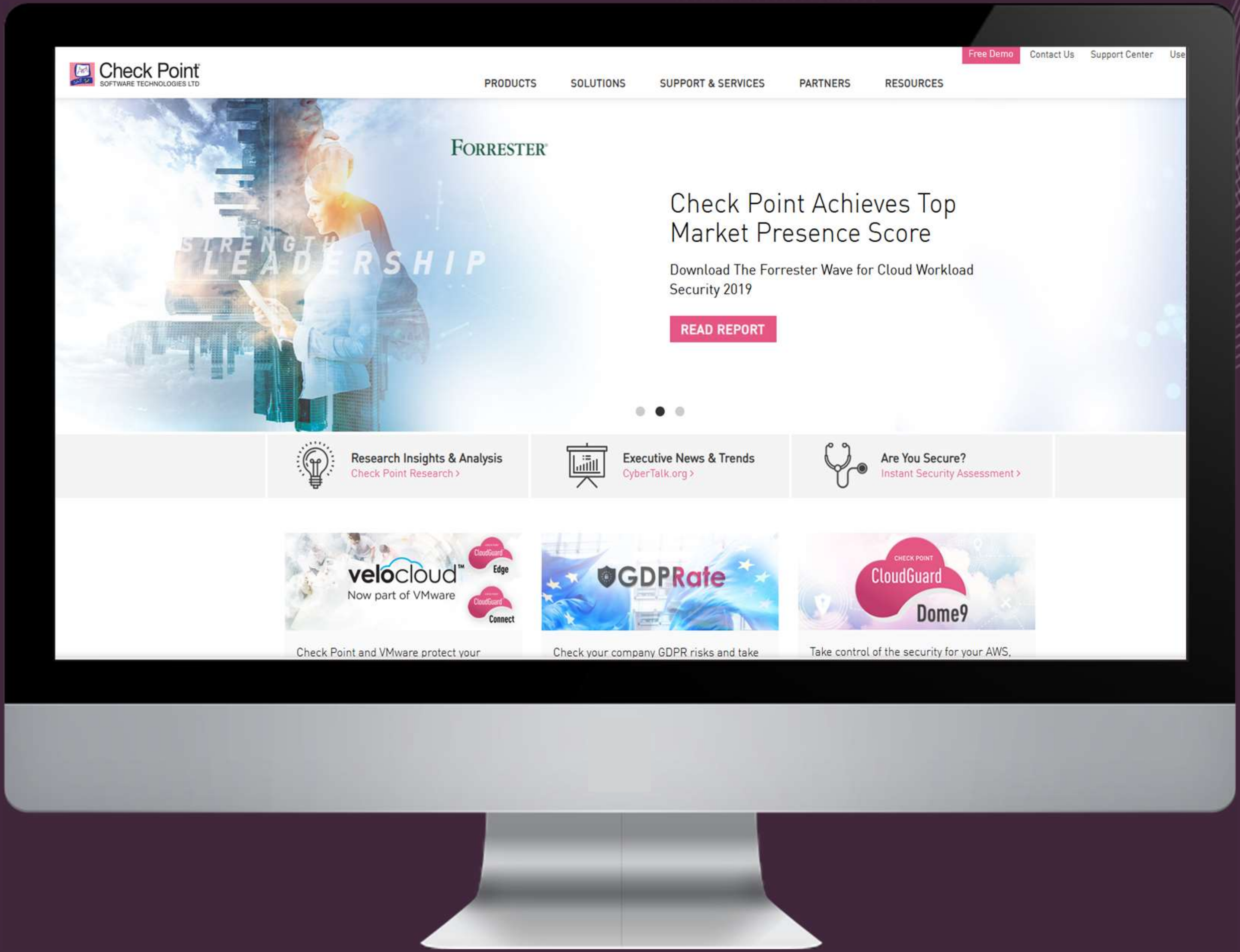
Apache Commons Text CVE-2022-42889

Text4Shell

Progress MOVEit

MOVEit

2020-2025



Check Point Achieves Top Market Presence Score

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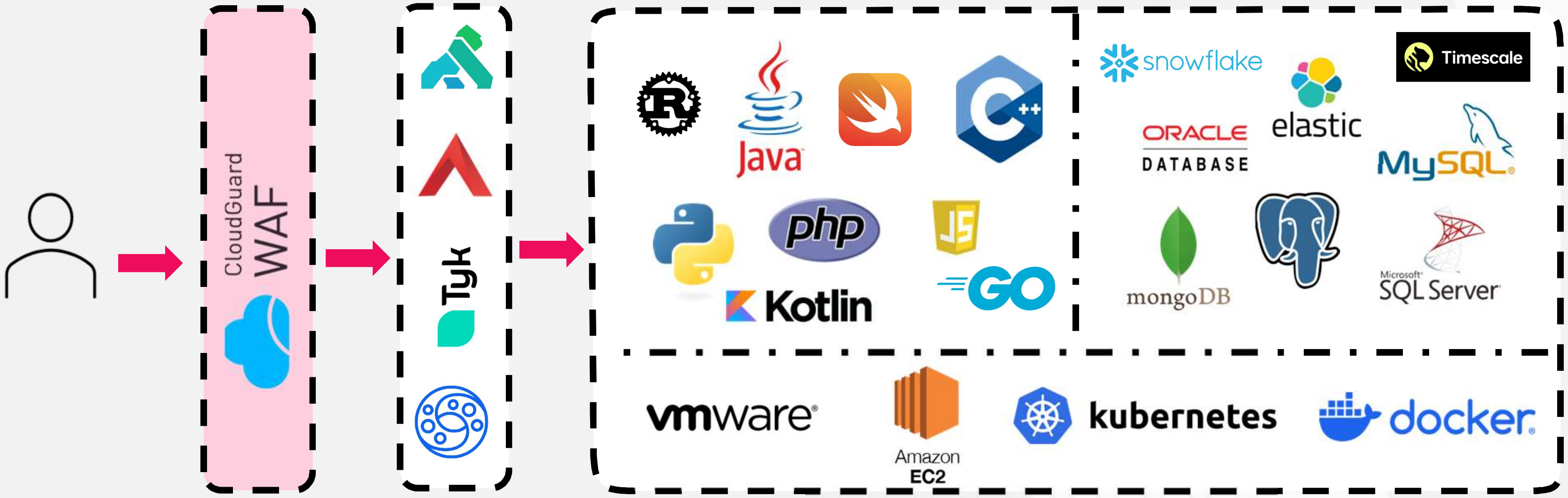
Check Point and VMware protect your

Check your company GDPR risks and take

Take control of the security for your AWS,

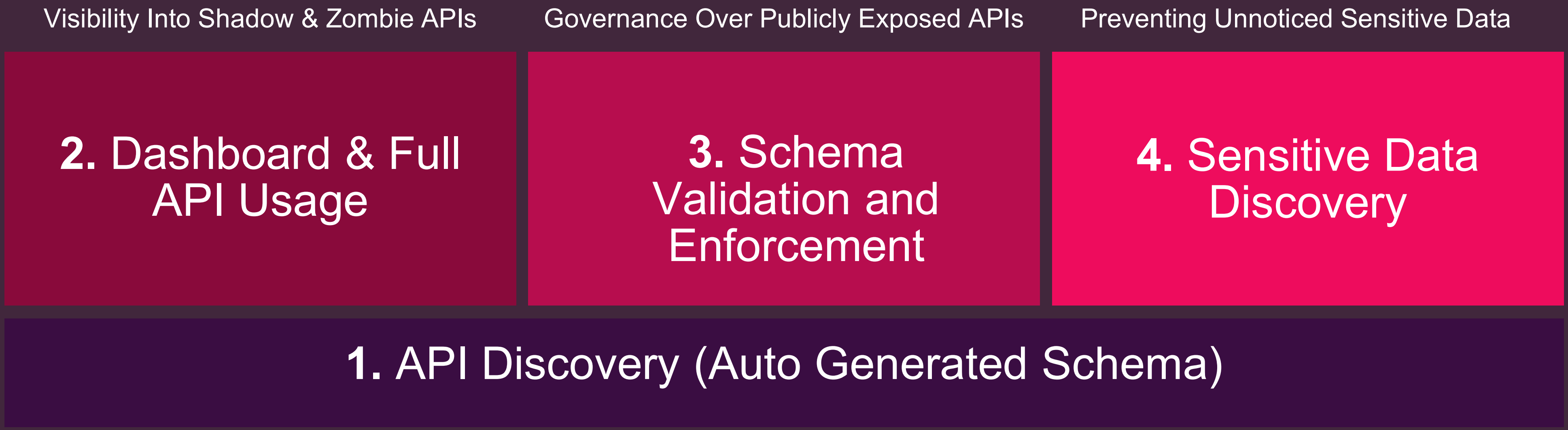
Applications Built with Multiple Technologies and APIs



Rapidly Evolving APIs

Risk of over exposed data and endpoints

CloudGuard WAF Automatically Discovers API Schemas and Allows You To Enforce Them



Visibility Into Shadow & Zombie APIs

Governance Over Publicly Exposed APIs

Preventing Unnoticed Sensitive Data

2. Dashboard & Full API Usage

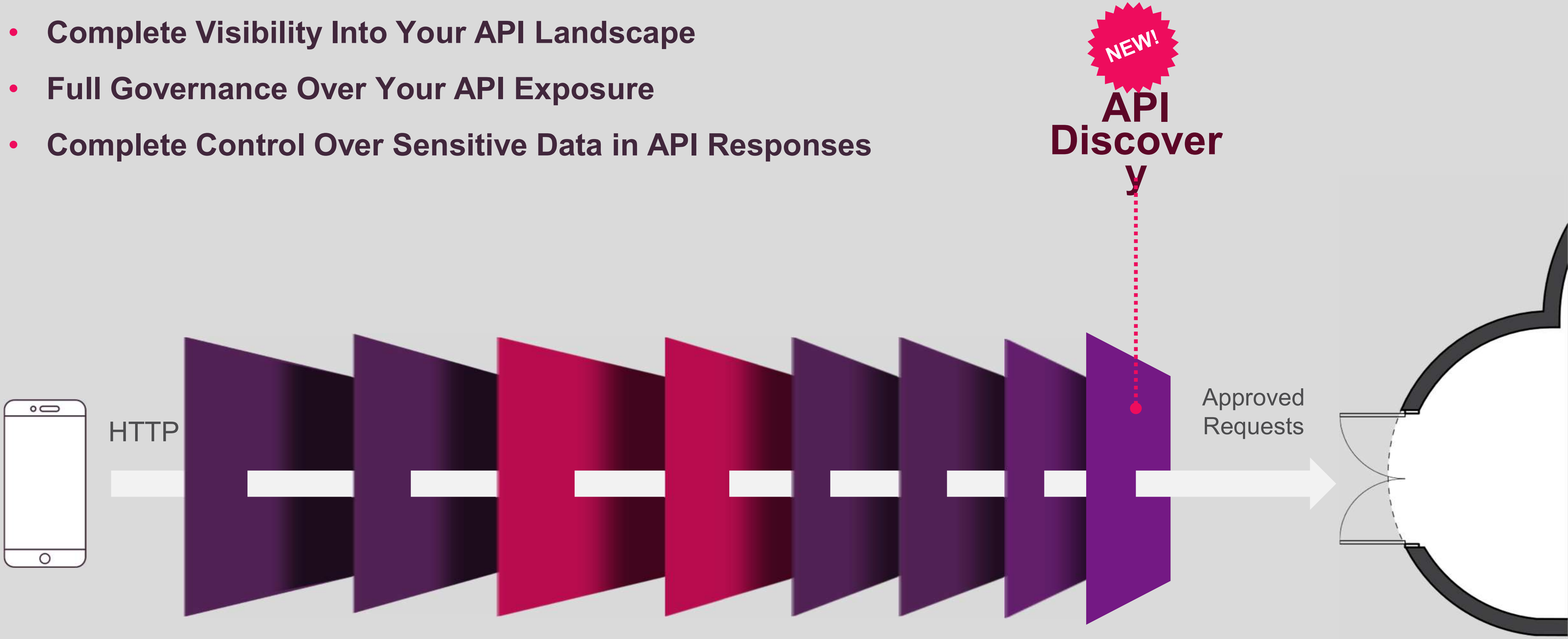
3. Schema Validation and Enforcement

4. Sensitive Data Discovery

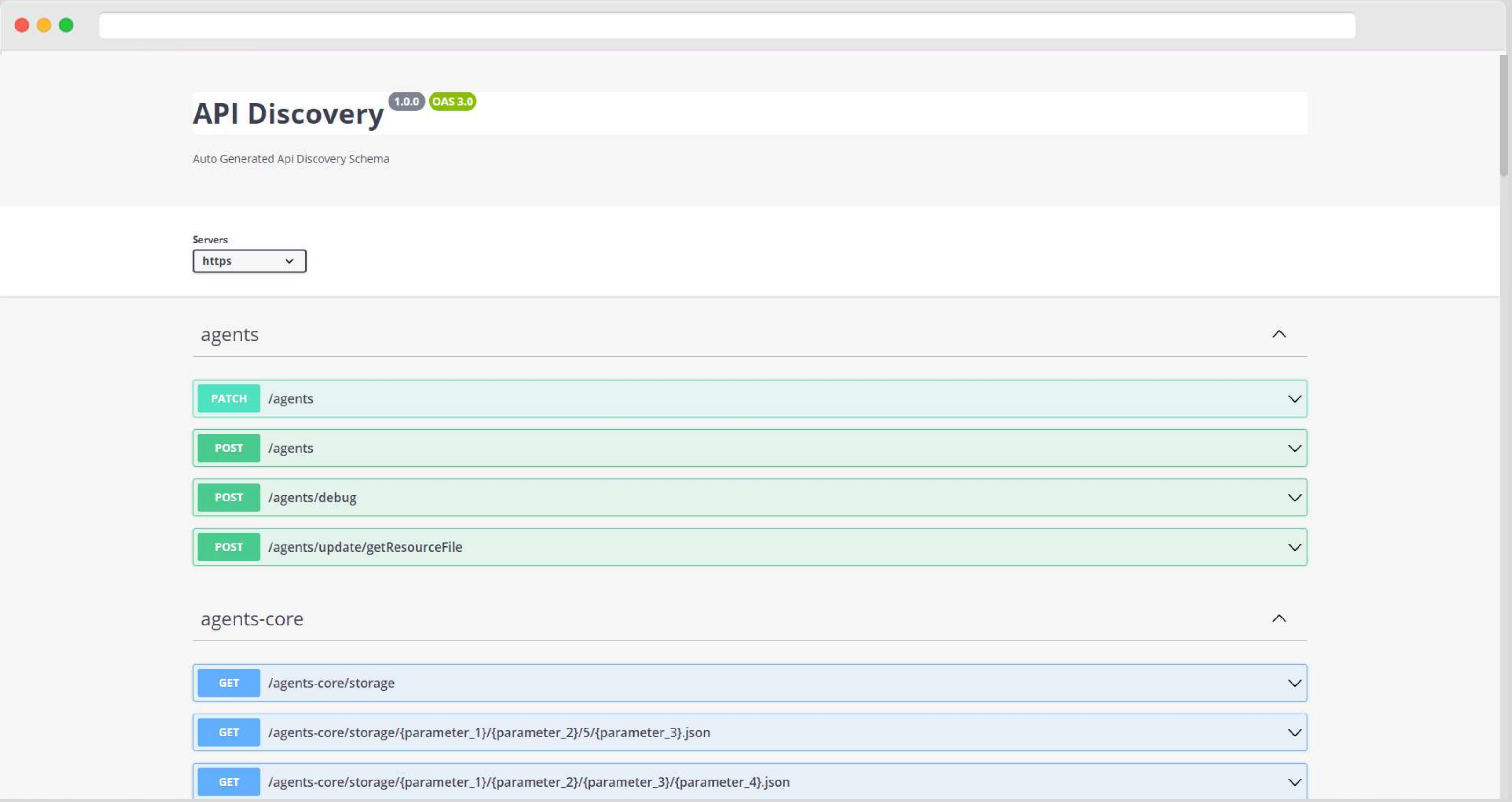
1. API Discovery (Auto Generated Schema)

New API Discovery is Now Available

- Complete Visibility Into Your API Landscape
- Full Governance Over Your API Exposure
- Complete Control Over Sensitive Data in API Responses



CloudGuard WAF Automatically Inspects & Generates Your API Schemas



API Discovery 1.0.0 OAS 3.0

Auto Generated Api Discovery Schema

Servers: https

agents

PATCH /agents

POST /agents

POST /agents/debug

POST /agents/update/getResourceFile

agents-core

GET /agents-core/storage

GET /agents-core/storage/{parameter_1}/{parameter_2}/5/{parameter_3}.json

GET /agents-core/storage/{parameter_1}/{parameter_2}/{parameter_3}/{parameter_4}.json

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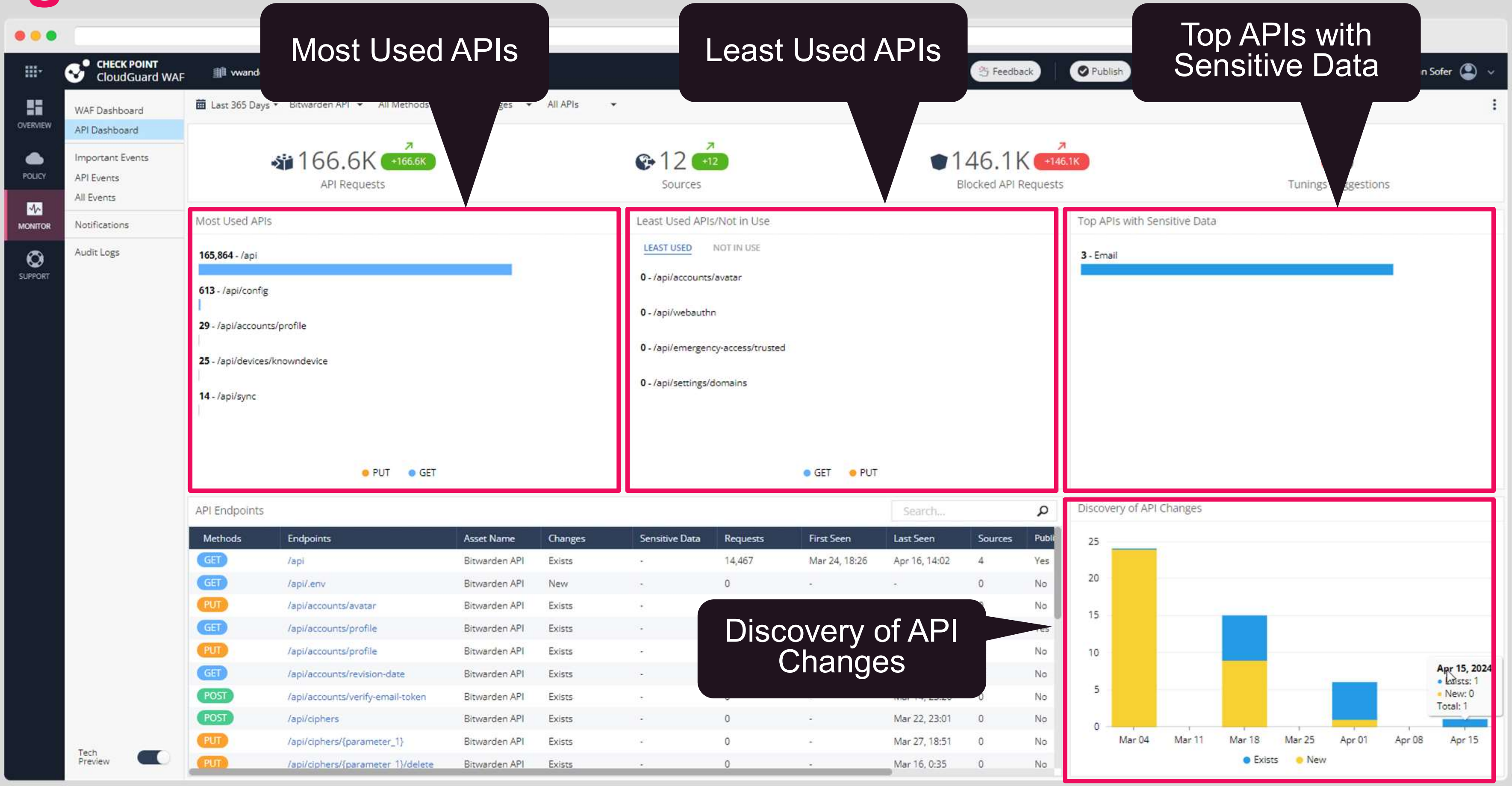
CloudGuard WAF Allows You To Manage Your API Usage



Most Used APIs

Least Used APIs

Top APIs with Sensitive Data

Discovery of API Changes

Most Used APIs

- 165,864 - /api
- 613 - /api/config
- 29 - /api/accounts/profile
- 25 - /api/devices/knowndevice
- 14 - /api/sync

● PUT ● GET

Least Used APIs/Not in Use

LEAST USED NOT IN USE

- 0 - /api/accounts/avatar
- 0 - /api/webauthn
- 0 - /api/emergency-access/trusted
- 0 - /api/settings/domains

● GET ● PUT

Top APIs with Sensitive Data

- 3 - Email

API Endpoints

Search...

Methods	Endpoints	Asset Name	Changes	Sensitive Data	Requests	First Seen	Last Seen	Sources	Publi
GET	/api	Bitwarden API	Exists	-	14,467	Mar 24, 18:26	Apr 16, 14:02	4	Yes
GET	/api/.env	Bitwarden API	New	-	0	-	-	0	No
PUT	/api/accounts/avatar	Bitwarden API	Exists	-					No
GET	/api/accounts/profile	Bitwarden API	Exists	-					Yes
PUT	/api/accounts/profile	Bitwarden API	Exists	-					No
GET	/api/accounts/revision-date	Bitwarden API	Exists	-					No
POST	/api/accounts/verify-email-token	Bitwarden API	Exists	-					No
POST	/api/ciphers	Bitwarden API	Exists	-	0	-	Mar 22, 23:01	0	No
PUT	/api/ciphers/{parameter_1}	Bitwarden API	Exists	-	0	-	Mar 27, 18:51	0	No
PUT	/api/ciphers/{parameter_1}/delete	Bitwarden API	Exists	-	0	-	Mar 16, 0:35	0	No

Discovery of API Changes

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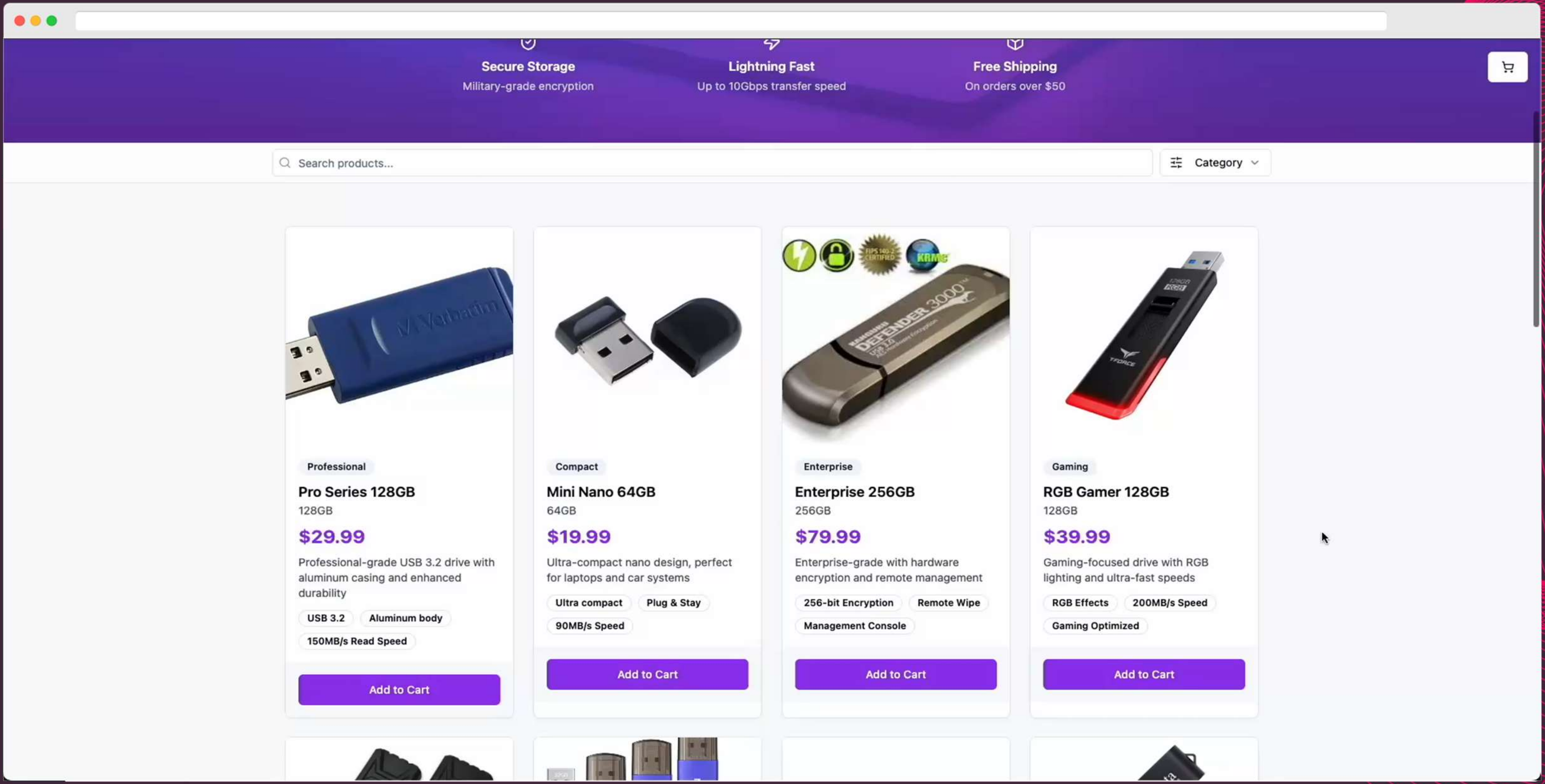

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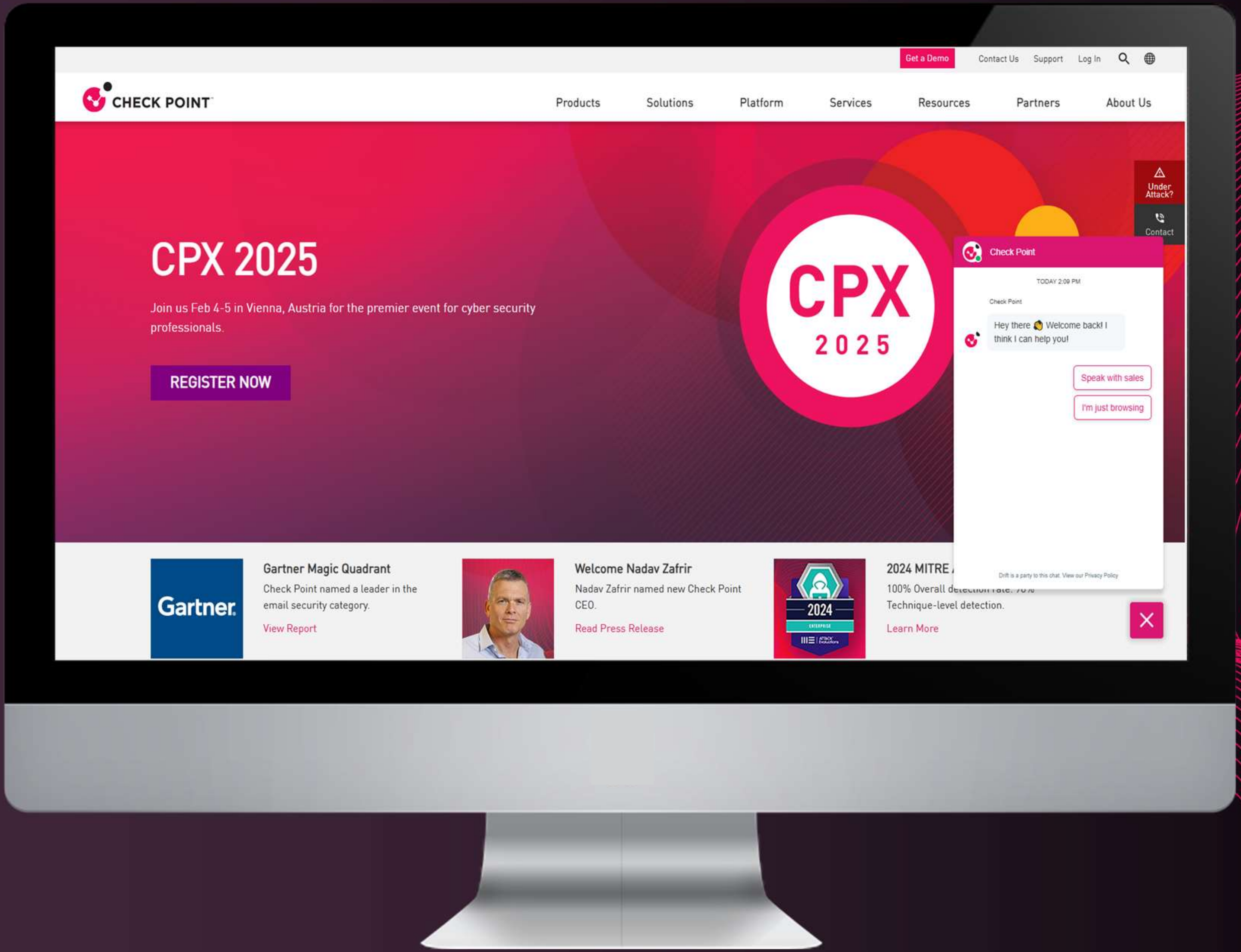
TODAY



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TODAY 2:09 PM

Check Point

Hey there 👋 Welcome back! I think I can help you!

Speak with sales

I'm just browsing

Drift is a party to this chat. View our Privacy Policy

Gartner Magic Quadrant

Check Point named a leader in the email security category.

View Report

Welcome Nadav Zafrir

Nadav Zafrir named new Check Point CEO.

Read Press Release

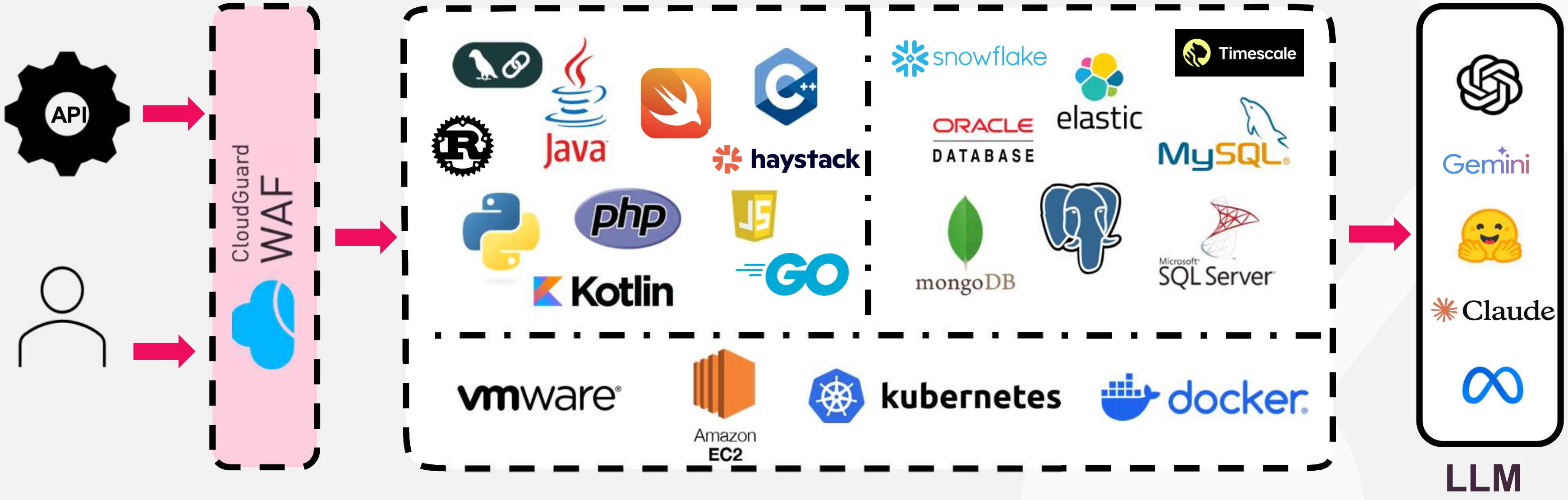
2024 MITRE

100% Overall detection rate. 70%

Technique-level detection.

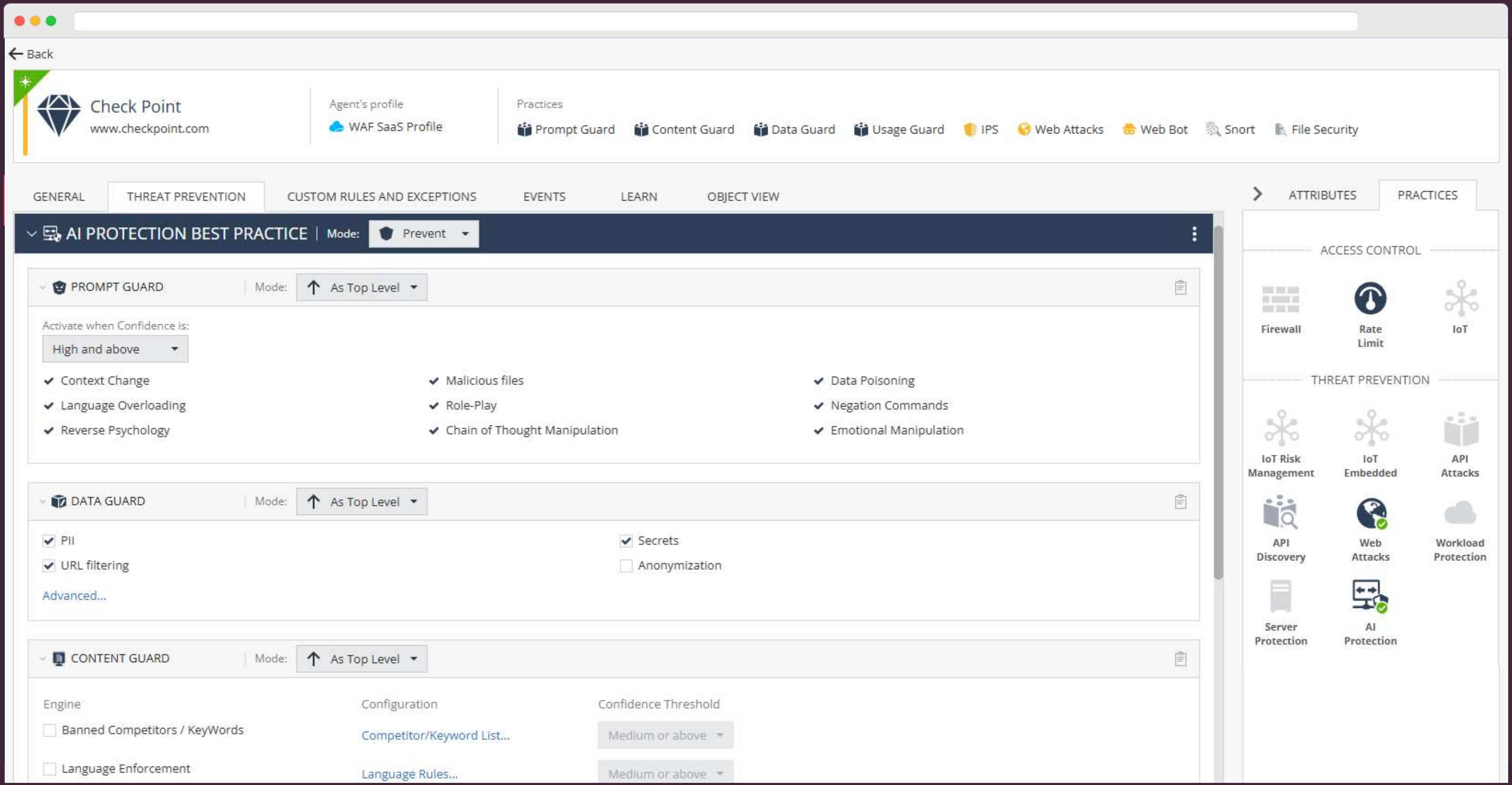
Learn More

Web Applications Uses LLM as a Standard



Next-gen AI increases
Modern applications security risks

CloudGuard WAF for AI –
Designed to protect against the new AI threats.



Check Point
www.checkpoint.com

Agent's profile: WAF SaaS Profile

Practices: Prompt Guard, Content Guard, Data Guard, Usage Guard, IPS, Web Attacks, Web Bot, Snort, File Security

AI PROTECTION BEST PRACTICE | Mode: Prevent

PROMPT GUARD — Mode: As Top Level

Activate when Confidence is: High and above

- ✓ Context Change
- ✓ Language Overloading
- ✓ Reverse Psychology
- ✓ Malicious files
- ✓ Role-Play
- ✓ Chain of Thought Manipulation
- ✓ Data Poisoning
- ✓ Negation Commands
- ✓ Emotional Manipulation

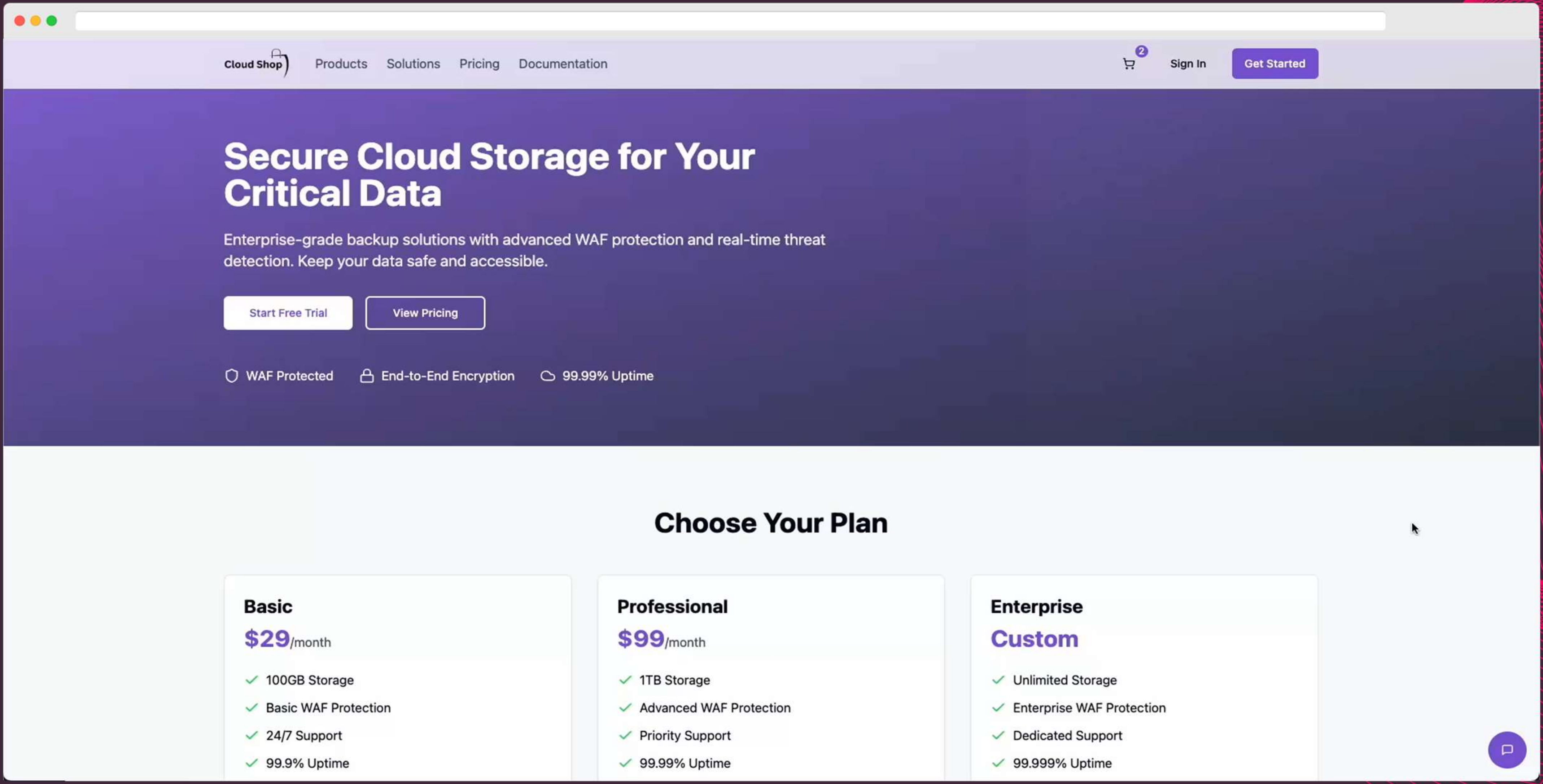
DATA GUARD — Mode: As Top Level

- ☑ PII
- ☑ URL filtering
- ☑ Secrets
- □ Anonymization

Advanced...

CONTENT GUARD — Mode: As Top Level

Engine	Configuration	Confidence Threshold
□ Banned Competitors / KeyWords	Competitor/Keyword List...	Medium or above
□ Language Enforcement	Language Rules...	Medium or above



Secure Cloud Storage for Your Critical Data

Enterprise-grade backup solutions with advanced WAF protection and real-time threat detection. Keep your data safe and accessible.

WAF Protected · End-to-End Encryption · 99.99% Uptime

Choose Your Plan

Basic

$29/month

- ✓ 100GB Storage
- ✓ Basic WAF Protection
- ✓ 24/7 Support
- ✓ 99.9% Uptime

Professional

$99/month

- ✓ 1TB Storage
- ✓ Advanced WAF Protection
- ✓ Priority Support
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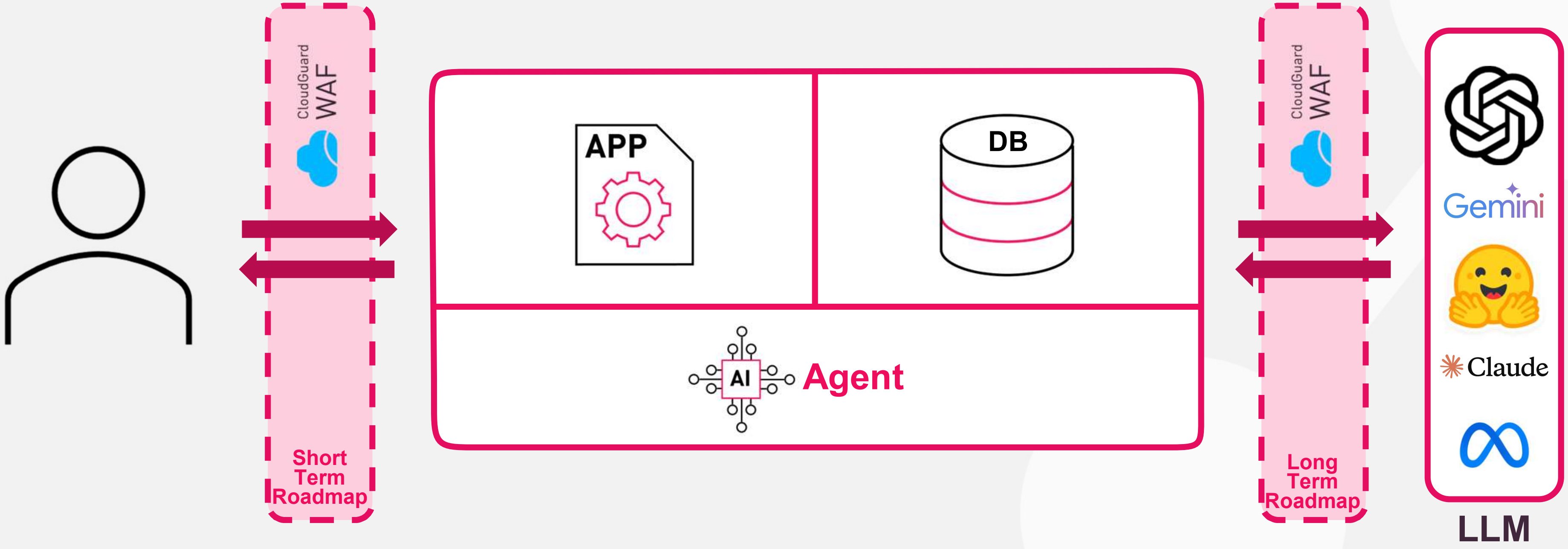
Enterprise

Custom

- ✓ Unlimited Storage
- ✓ Enterprise WAF Protection
- ✓ Dedicated Support
- ✓ 99.999% Uptime

Introducing GenAI Security With CloudGuard WAF



Next-gen AI increases
Modern applications security risks

If You Loved CloudGuard WAF, Replacing Your Current WAF is Easier Than Ever

NEW!

<15 min.

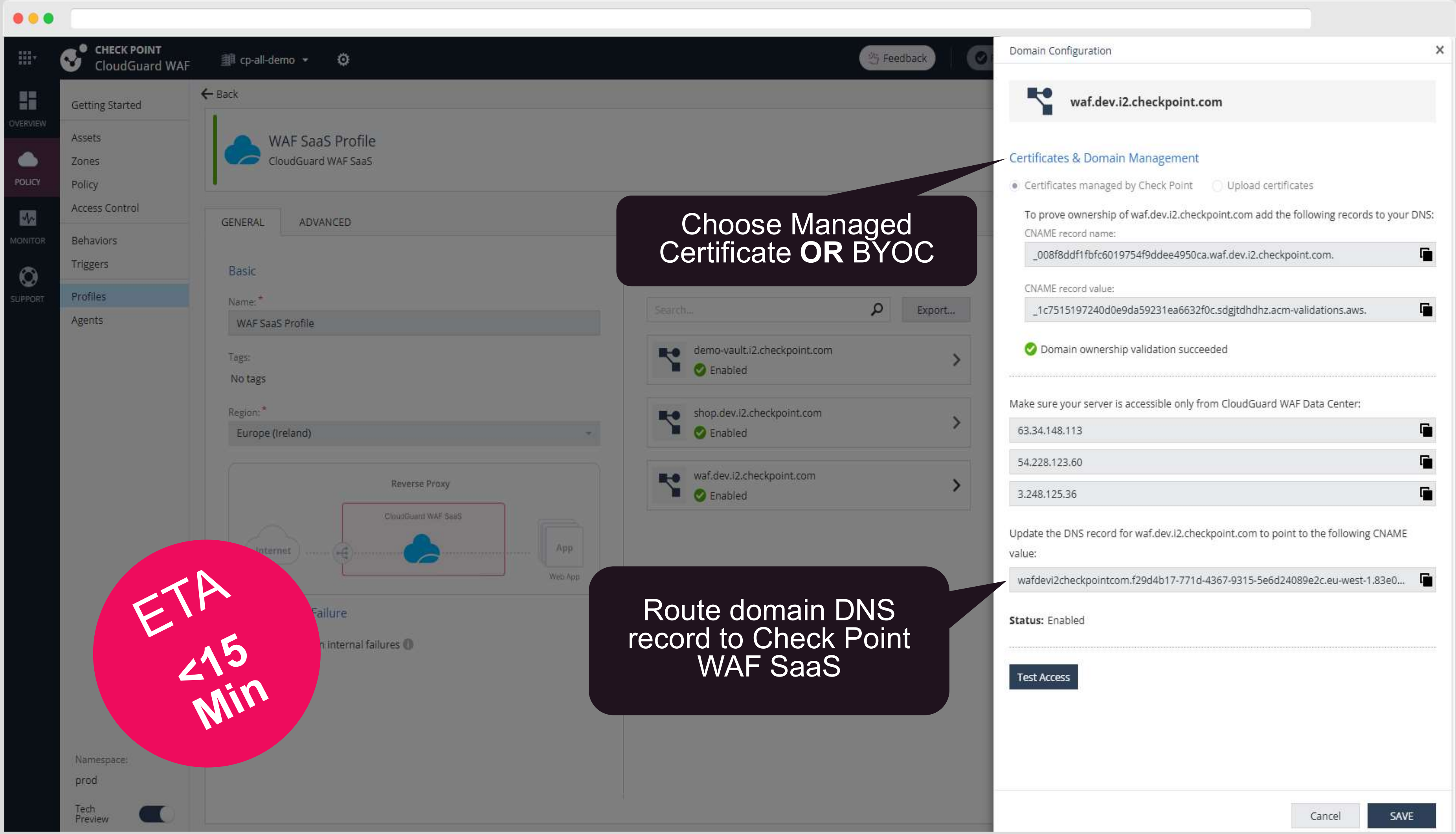
Update Your DNS Record & Immediately Route Traffic through **WAF as a Service**

<1 Hour

Deployment within **Kubernetes Ingress**

<1 Hour

Deployment within **On-Prem. Environment**



WAF SaaS Profile
CloudGuard WAF SaaS

Basic

Name: *
WAF SaaS Profile

Tags:
No tags

Region: *
Europe (Ireland)

Failure
internal failures

Namespace:
prod

Tech Preview

demo-vault.i2.checkpoint.com
Enabled

shop.dev.i2.checkpoint.com
Enabled

waf.dev.i2.checkpoint.com
Enabled

Domain Configuration

waf.dev.i2.checkpoint.com

Certificates & Domain Management

● Certificates managed by Check Point ○ Upload certificates

To prove ownership of waf.dev.i2.checkpoint.com add the following records to your DNS:

CNAME record name:
_008f8ddf1fbfc6019754f9ddee4950ca.waf.dev.i2.checkpoint.com.

CNAME record value:
_1c7515197240d0e9da59231ea6632f0c.sdgjtdhdhz.acm-validations.aws.

✓ Domain ownership validation succeeded

Make sure your server is accessible only from CloudGuard WAF Data Center:

63.34.148.113

54.228.123.60

3.248.125.36

Update the DNS record for waf.dev.i2.checkpoint.com to point to the following CNAME value:

wafdevi2checkpointcom.f29d4b17-771d-4367-9315-5e6d24089e2c.eu-west-1.83e0...

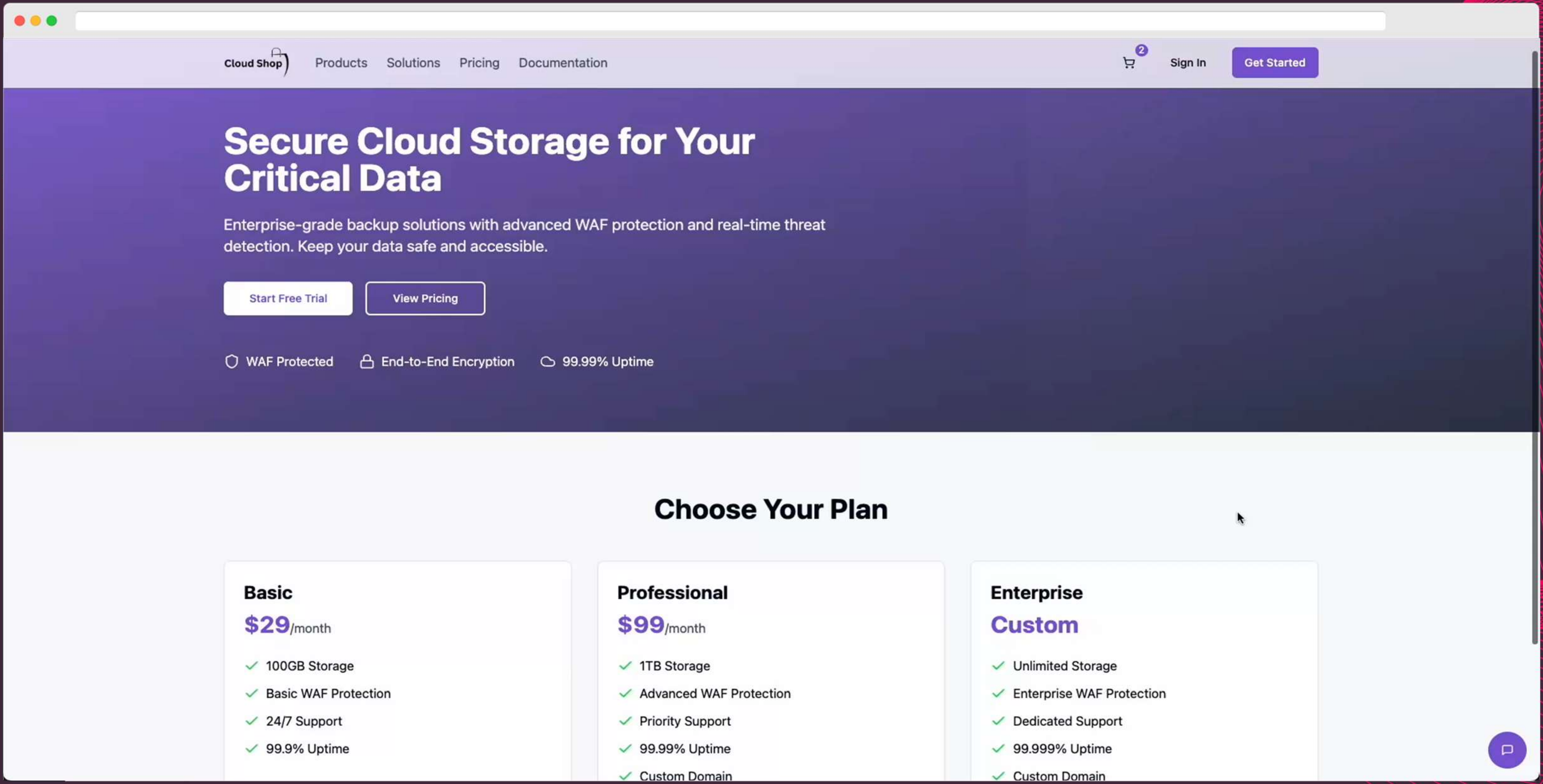
Status: Enabled

Choose Managed Certificate **OR** BYOC

Route domain DNS record to Check Point WAF SaaS

ETA
<15 Min

Now Supports: Apex Domains, Custom Ports, and BYOC



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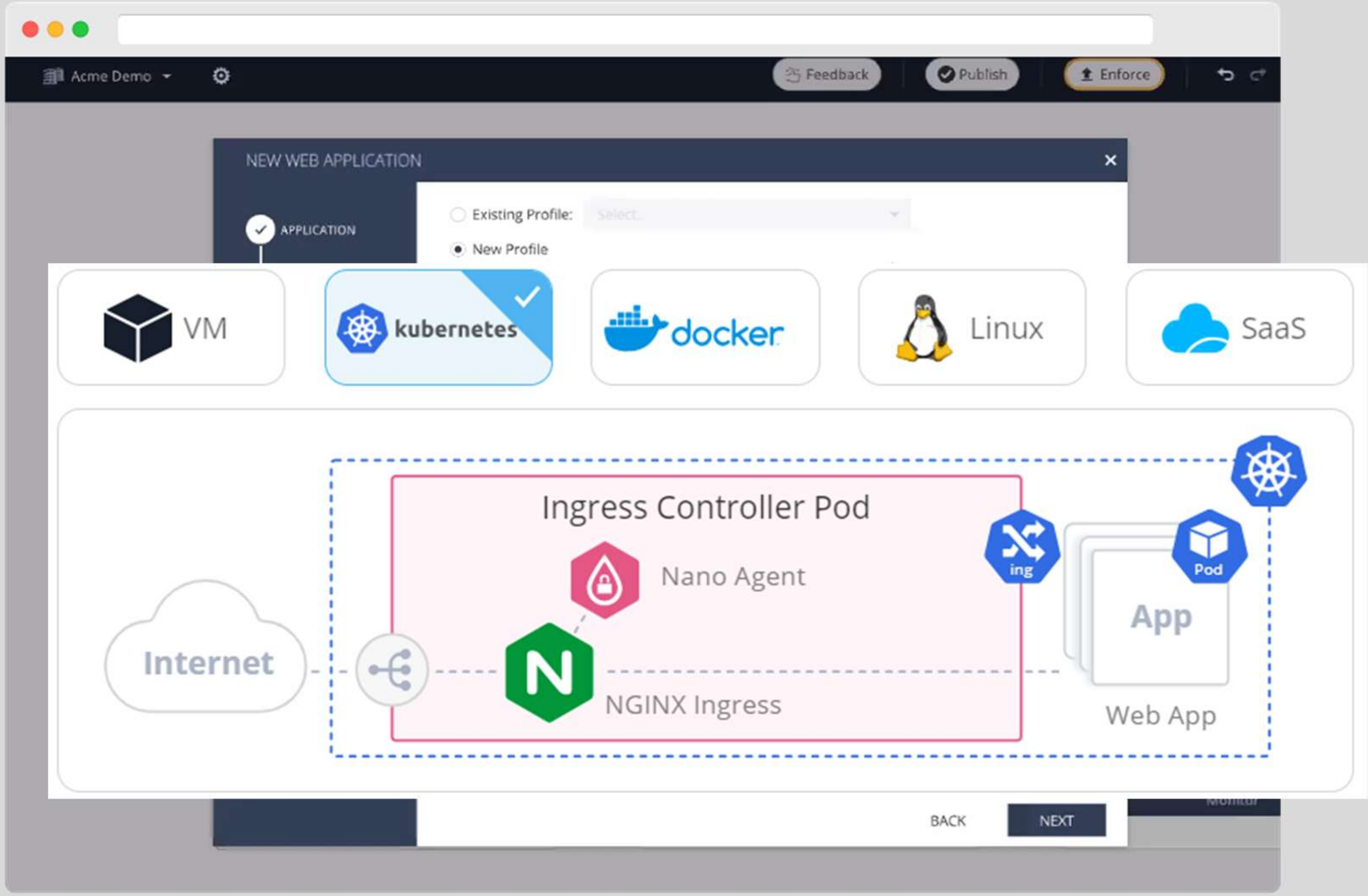
- ✓ Custom Domain

Unlike Cloud Native WAFs, CloudGuard WAF Offers Deployment Into Your Kubernetes Ingress



NEW WEB APPLICATION

○ Existing Profile: Select...

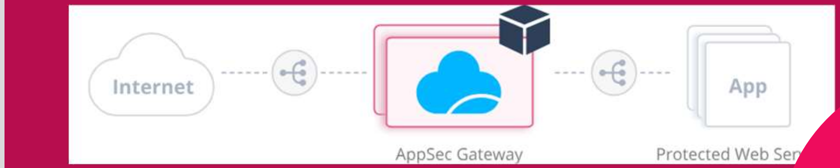
● New Profile

ETA <1 Hour

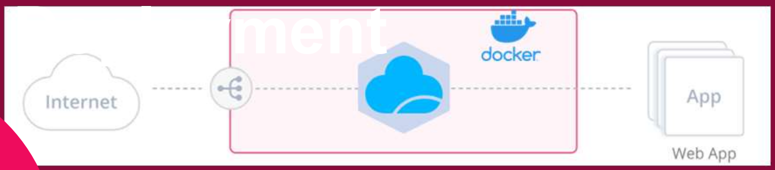
CHECK POINT

CloudGuard WAF Offers Additional Deployment Options

VM Gateway

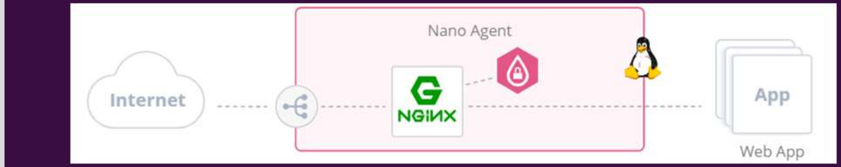


Docker

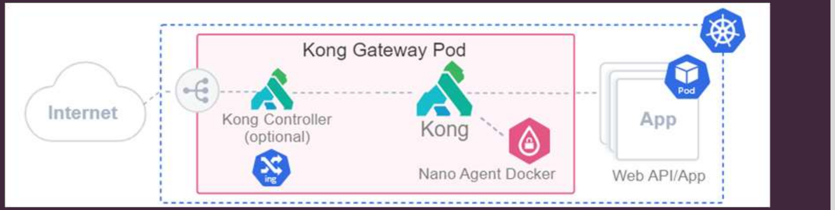


ETA
<1 Hour

Linux (NGNIX)



Kong Gateway Pod



Summarizing Check Point Unmatched Advantage Over Cloud Native WAF Solutions

	CloudGuard WAF CHECK POINT™	aws
Use Case	CloudGuard WAF	Cloud Native WAF
Zero-Day Prevention	✓ **Immediate**	× **Avg. 40 days***
WAF Management	✓ **AI - Automated**	× **Manual**
Detection Accuracy	✓ **Leader 97%**	× **Avg. 87%***
API Discovery	✓ **Yes**	× **Not Provided**
Flexible Deployments	✓ **Multi-Cloud & On-Prem**	× **Single Cloud**

Thank You