

API Security for Cloud-Native Apps

Traceable enables security and engineering to keep up with the continuous pace of change and complexity, and to protect applications from traditional & advanced application and API threats

Traceable AI applies the power of distributed tracing and unsupervised machine learning to enable you to:

Know where you are exposed

- API Discovery auto inventory of all your APIs
- API DNA auto generated detailed API specs
- API Insights runtime API and user behavior
- API Risk Monitoring continuous scoring
- User Attributed Activity Tracking

Detect & Stop API and Web Attacks

- API & Web Application Protection
- Sensitive Data Tracking
- ATO and Brute-force Attack Protection
- API Vulnerability Detection
- Multi-session Threat Detection
- OPA policy enforcement / blocking
- Drop-in Security Enhancement
- Satisfies PCI-DSS 6.6 WAF requirement

Use Insights to Improve

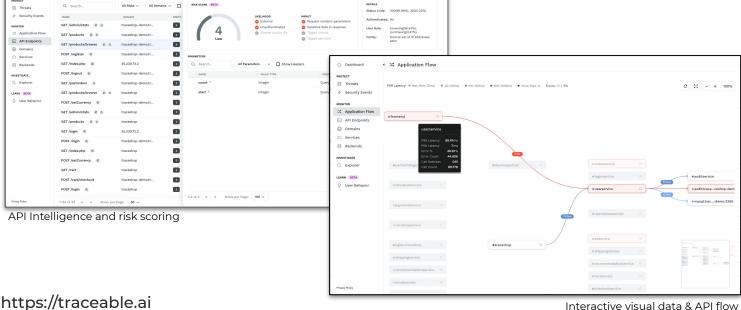
API Endpoints

🖒 Dash

- Trace Explorer searchable transaction data lake
- Threat Hunting explore for signs of threats
- Forensics review full requests and responses
- Audit and Compliance track API and data changes
- API Performance Metrics errors, latency, calls, etc

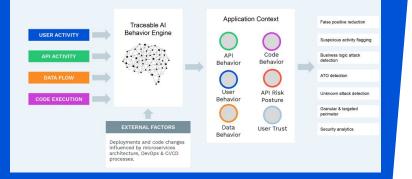
GET /products/browse

Visibility Protection **Analytics**



Interactive visual data & API flow





Security posture dashboard

API INTELLIGENCE	API Intelligence Dashboard					
Dashboard						
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Events Action Log Antityss Traces User Behavior IRXX	Nipatenahop.A., 4.356 O External APIs External APIs on average have % headers in (e) (a)	the request and 8 headers is	n the response. 33% of th	e request bodies and 19% of the response		
	API ENDPOINTS	Recent Activity ~	GET /product 🔹	2 1		
	GET /product 🔹 🧭		Conductaservice Conductante 278			
	GET /pastorders & & O	2	200 (98.999%			
Princy Policy	GET /user/(user-id)/order & B 2	2	IP ADDRESS	un. http://dataservice:8094/product	STATUS 280 - OK	START TIME 2021-08-03 07:51:23 PM

Infrastructure

- AWS EKS •
- AWS ECS •
- GCP GKE
- Azure AKS Docker ۲
- **Kubernetes**
- Helm
- Ambassador •
- Istio
- NGINX ingress
- NGINX load balancer

*roadmap

- Kong API gateway

Languages

Java

- Golang •
- Python ۲
- NodeJS*
- Zipkin agent support ۲
- Jaeger agent support
- OpenTelemetry agent support ۲

https://traceable.ai Doc Ver: 2021-02-24-01

Traceable deploys in 10 mins in Kubernetes environments and supports DevOps-friendly deployment tools.

Supported in non-cloud, cloud, and hybrid cloud architectures including private cloud, AWS EC2, GCP, NGINX load balancer, Istio and many other deployment environments.

Distributed tracing agents based on OpenTelemetry standards provide native protection for Java, Golang, Node.js and Python, REST, GraphQL and gRPC API observability and protection to support a variety of application architectures.

Detects & Protects

- OWASP Top 10 (WAF) .
- OWASP API Top 10 •
- Business logic attacks
- Anomalous user and API behavior
- Other attacks such as SSRF, local file • inclusion, remote code execution, and more

User behavior analysis

отюст	POST /login	Attack	SQL Injection Attack Detected	1	16	5	
Threats	GET /product/(product-id)	Attack	Authorization Dypass - Object Level	1	1	10	
Security Events	GET /product/(product-id)	Attack	Authorization Bypass - Object Level	1	1	6	
Application Flow	POST /login	Normal	Normal	6	7	2	
API Endpoints	GET /product/(product-id)	Normal	Normal	з	9	6	
Domains	GET /products/browse	Normal	Normal	π	176	6	
Services	GET /product/(product-id)	Normal	Normal	з	4	10	
Backends	GET /order/(order-id)	Attack	Authorization Bypass - Object Level	6	24	10	
Explorer	GET /product/(product-id)	Normal	Normal	3	5	9	
	1-10 of 11 C > Rows per Page:	10 ~					
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Threat actor storyboards (user attribution based)

Dashboard	← Back							
ROTECT Threats Security Events Application Flow API Endpoints Domains	hacker@darkweb.com Active Act							
B) Domains Services	23 FEE 2021 (4/ 9) (9) (9) (70 FEE 100							
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User Behavior	Image: Contraction Attack Detected - SQL Injection found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection Found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection Found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection Found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection Found within ARGS:quantity: 5' or 1+1 Image: Contraction Attack Detected - SQL Injection At							
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	O Authoritation Sysass - Object Level - The user accessed an object/995/22654/28545 with key/http:request.parkm.2 whose value doesn't mat show more O 02101 AM & 45000 D novee 42.237035 O 056xa3b4050167ma2td							
	See 2 more similar events >							
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	See 8 more similar events >							
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