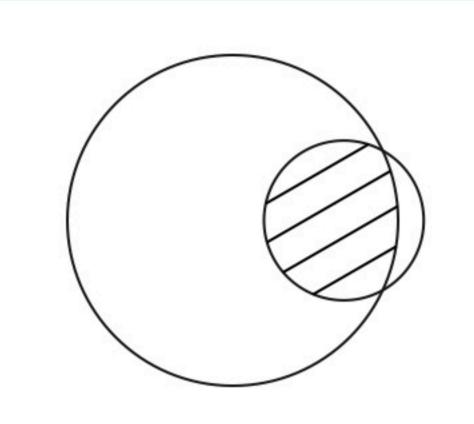
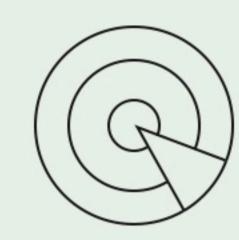
# EMPIRICAL

# Empirical Security builds precision Al tuned to your cybersecurity environment



#### Model Data Sources

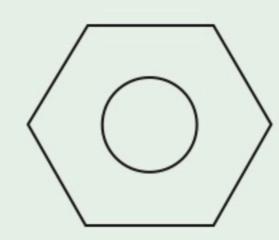
For model development at Empirical Security, several types of data can provide valuable insights and improve the accuracy of both local and global models.



#### Vulnerability Data

Information about known vulnerabilities (CVEs), exploitability metrics, patching history, and real-world observations of how vulnerabilities are being targeted.

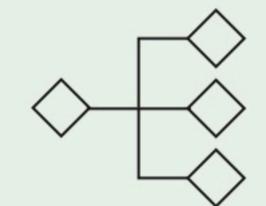
Qualys, Rapid7, Tenable, CrowdStrike Falcon Spotlight, SentinelOne VMS, more



#### Configuration Data

System and application settings, security controls, misconfigurations, and deviations from best practices that could introduce risk.

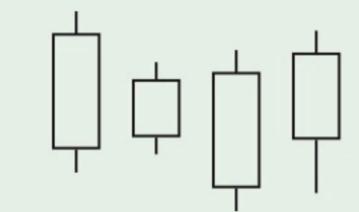
AWS Security Hub, MS Defender for Cloud, Wiz Cloud, Lacework, AWS



## Endpoint and Host Data

Process execution logs, file system changes, privilege escalation attempts, and endpoint detections that provide context on system behavior.

SentinelOne, Crowdstrike, MS Defender for Endpoint



## Threat Intelligence Feeds

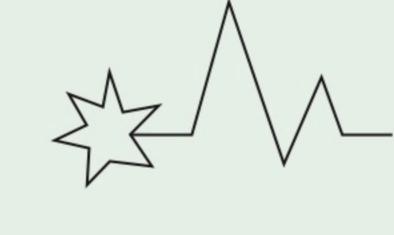
Indicators of compromise (IOCs), malware signatures, attacker TTPs (Tactics, Techniques, and Procedures), and threat actor activity.

Recorded Future, Mandiant, FS-ISAC



#### Exploit and Attack Data

Real-world attack telemetry, pen test results, and honeypot data that provide insight into emerging threats and exploitation methods. Wiz Cloud, Lacework, MS Defender, Upwind



## Incident Response & SOC Data

Historical security incidents, analyst annotations, and remediation timelines that can improve predictive capabilities.

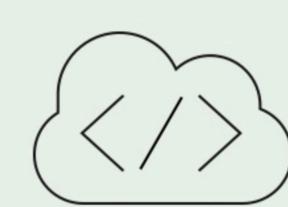
SentinelOne, CrowdStrike, MS Defender for Cloud & Endpoint, AWS Security Hub



#### Ticketing and CMDB

Historical ticketing related to remediation and urgency, remediation times, and business processes and criticality related to assets.

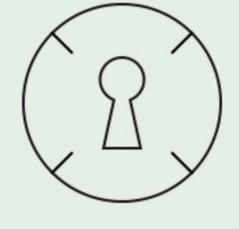
Jira, GitLab Security, GitHub Advanced
Security



# Application Security / DevSecOps

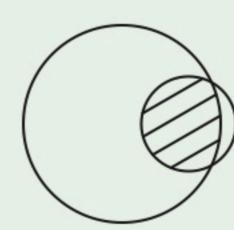
Data about flaws in code, running applications, and third-party components found in the development lifecycle.

Snyk, Semgrep, GitHub Advanced Security, GitLab Security, Checkmarx, more



## Identity and Access Management

Environment settings about user identities, resource management, and user permissions. Okta, Entra ID, AWS IAM Access Analyzer



#### Custom Data Sources

We can build custom data integrations to match your security and IT operational workflows.

# EMPIRICAL

# Compare Model Features

ALL MODELS	ALL MODELS	ALL MODELS	ALL MODELS
EPSS GLOBAL LOCAL	EPSS GLOBAL LOCAL	EPSS GLOBAL LOCAL	EPSS GLOBAL LOCAL
Predictive	Hourly Score	Legacy	UI and API
Vulnerability Scoring	Updates and Enterprise Support	Model Support (EPSS v3, v4)	for Data Discovery & Model Performance
GLOBAL + LOCAL MODELS	GLOBAL + LOCAL MODELS	GLOBAL + LOCAL MODELS	GLOBAL + LOCAL MODELS
EPSS GLOBAL LOCAL	EPSS GLOBAL LOCAL	EPSS GLOBAL LOCAL	EPSS GLOBAL LOCAL
Data on over	Near-Real Time	ML model for discovering	All Underlying data
16,000 exploited in	Exploitation	new exploit code	contributing to the
the wild CVEs	Telemetry & Model	on GitHub	model exposed
LOCAL MODELS	LOCAL MODELS	LOCAL MODELS	LOCAL MODELS
EPSS GLOBAL LOCAL	EPSS GLOBAL LOCAL	EPSS GLOBAL LOCAL	EPSS GLOBAL LOCAL
Custom Vulnerability			
Model based on your	Madal Darfarmana		
attack telemetry, asset data, vuln data,	Model Performance Measured against	Forward Deployed	Only you will have
& threat intelligence	your attack telemetry	Data Science Team	access to your model

# We bring measurable impact

Past solutions can't prioritize, assess, and handle effective inference at scale. With Empirical, our models provide understanding and superior prioritization.

6x

More efficient than CVSS (comparison vs. EPSS, our free model, at 87% coverage)

12.4x

A 1249.04% increase in total exploited CVEs as of January 9th, 2025 compared to CISA Known Exploited Vulnerabilities (KEV)

23x

4925 newly exploited CVEs in the last 12 months, compared to 204 in CISA KEV