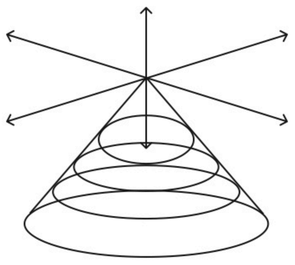
EMPIRICAL

Empirical Security builds precision AI tuned to your cybersecurity environment



Global Models

Global models combine real-time internet exploitation telemetry with EPSS predictions to provide the most accurate view of exploitation. It monitors activity over 16,000 known exploited in the wild CVEs, and uses that data in the model. This is 12x DHS CISA's KEV, and far more than any other vendor out there.

Our Global Models API delivers best in the industry efficiency across coverage levels

Get real-time CVE updates

We offer a robust UI and API for data discovery. Our CVE database updates hourly.

Run and save searches

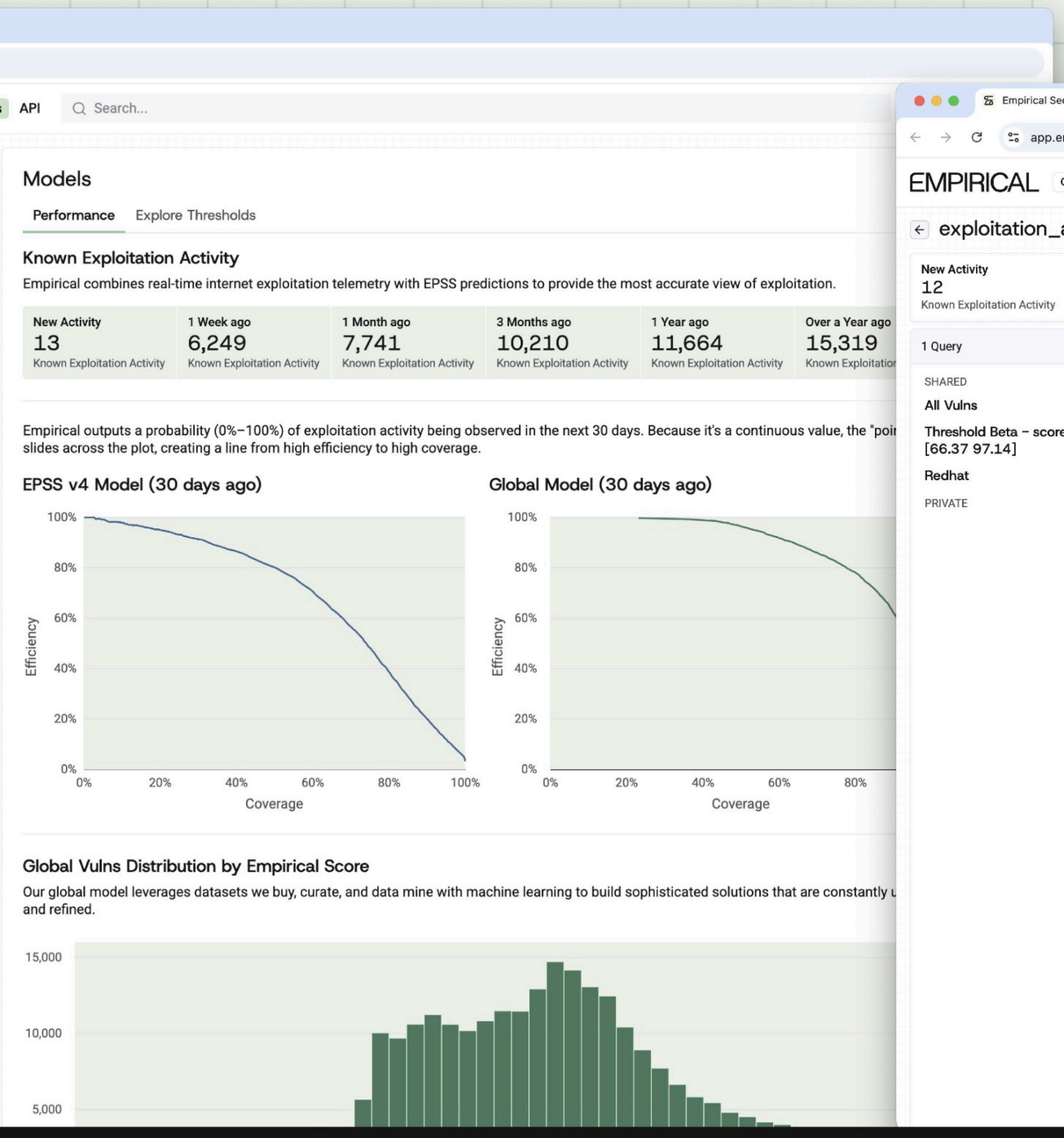
Find CVEs by score thresholds, recent score changes, exploitation activity, products, vendors, and more.

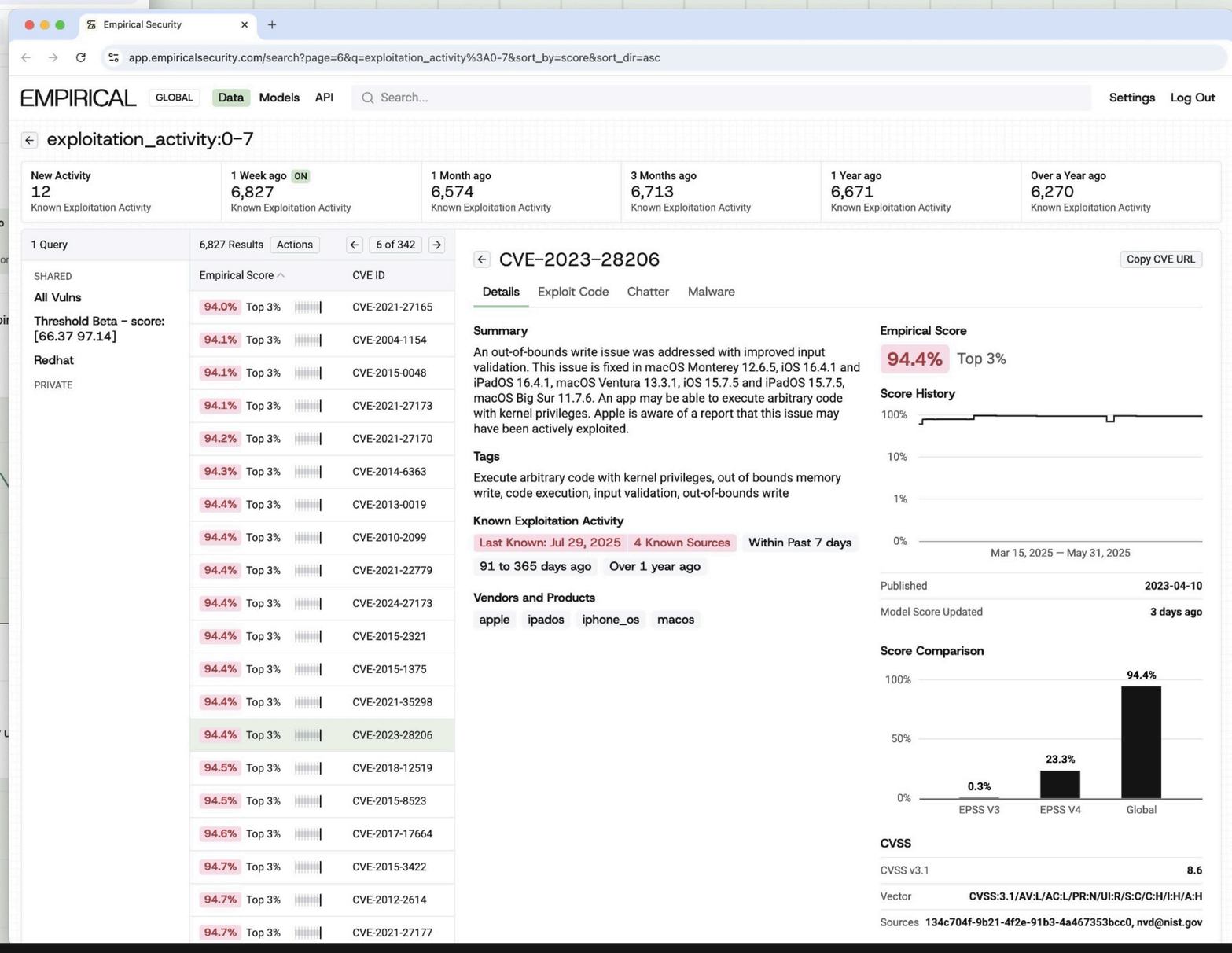
Explore model thresholds

Change threshold parameters to filter the data page for better prioritization.

Track model performance

View vulns distributed by score, compare models over time, and view curated lists of CVEs by Known Exploitation Activity.





See how your model would differ — book a walkthrough | empiricalsecurity.com | info@empiricalsecurity.com

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Compare Model Features

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