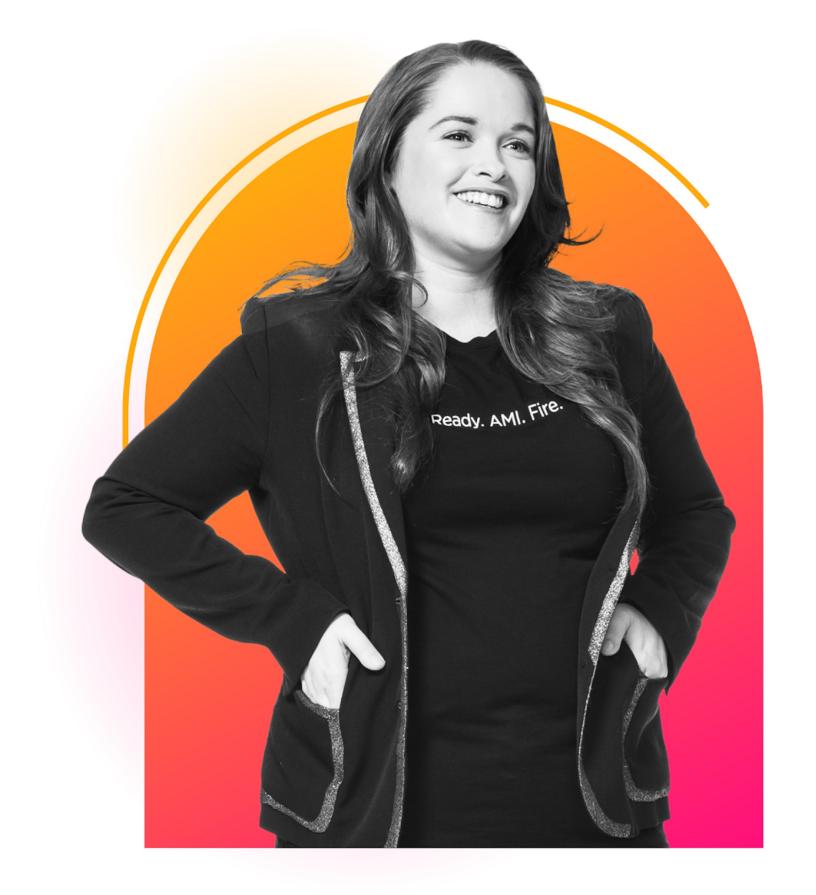
Cisco webinar Splunk

28. květen 2024

Petr Slačík Sr. Sales Engineer - GSS



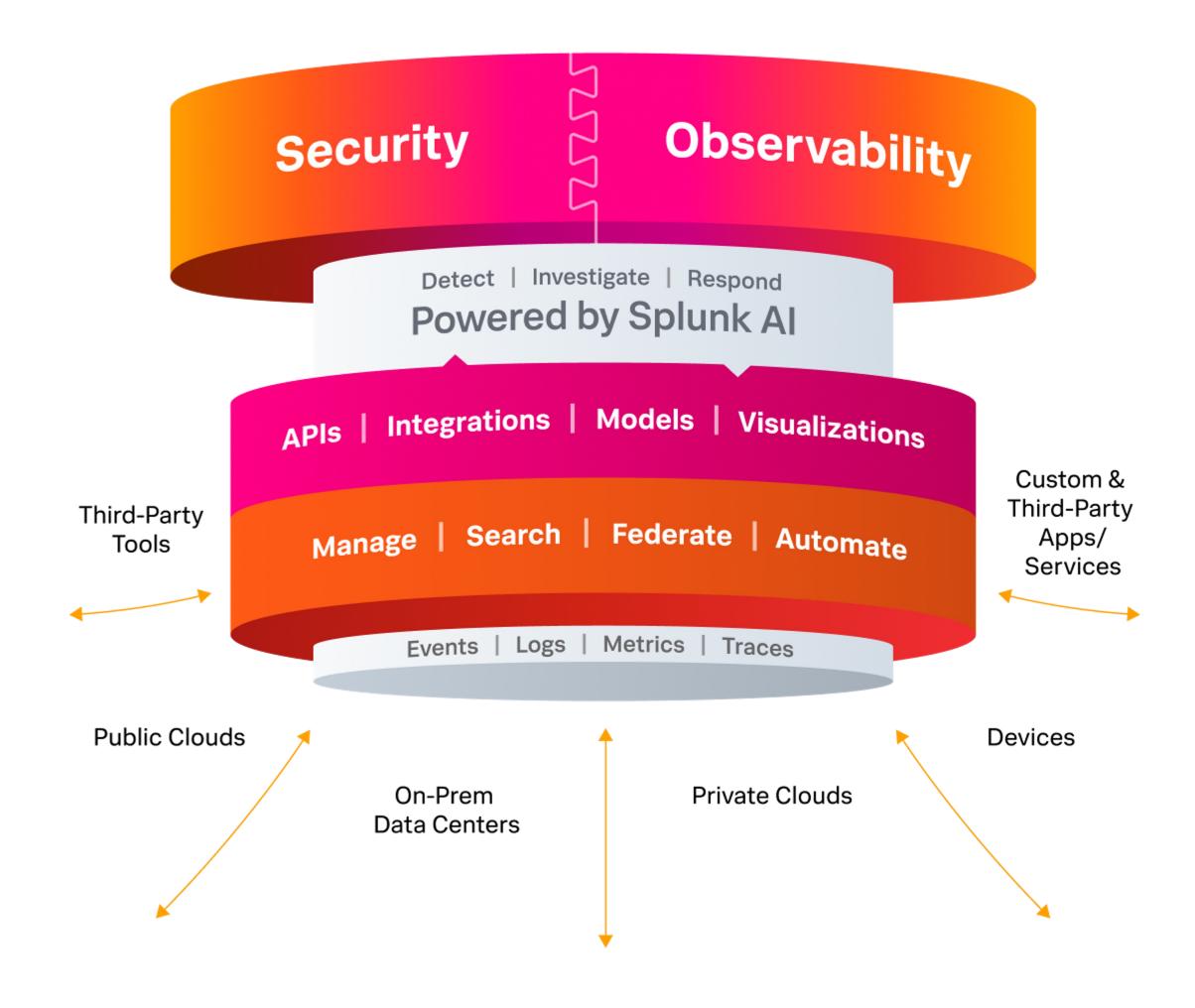


Agenda

- Intro
- Core Splunk Enterprise
- Core Splunk Cloud
- Splunk Apps
- Security
- Splunk O11y Cloud
- Splunk AI
- DEMO
- Q & A

Intro Splunk

The Unified Security and Observability Platform



Splunk is the only vendor recognized as a leader in the latest Magic Quadrant™ Reports for SIEM and APM and Observability.

Gartner, Magic Quadrant for Security Information and Event Management, October 2022

Gartner, Magic Quadrant for Application Performance Monitoring and Observability, July 2023

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Gartner

A Leader

Gartner® Magic Quadrant™ for Security Information and Event Management

A Leader

Gartner® Magic Quadrant™ for APM and Observability

Core Splunk Enterprise

splunk'>

The Data-to-Everything Platform



Any Structure

Analyze Any Source

Any Time Scale

Act

Monitoi

splunk > turn data into doing

Investigate

What Can Splunk Ingest?

Local File Monitoring

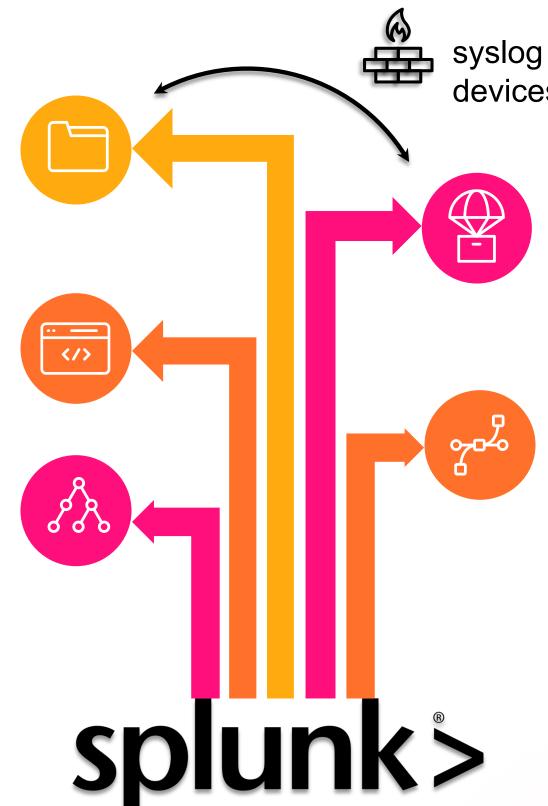
Universal Forwarder

Aggregated / API Sources

Heavy Forwarder

Event Logs, Active Directory, OS Stats, Unix/Linux/ Windows Hosts

Universal Forwarder



syslog hosts & network devices

DevOps, IoT, Containers

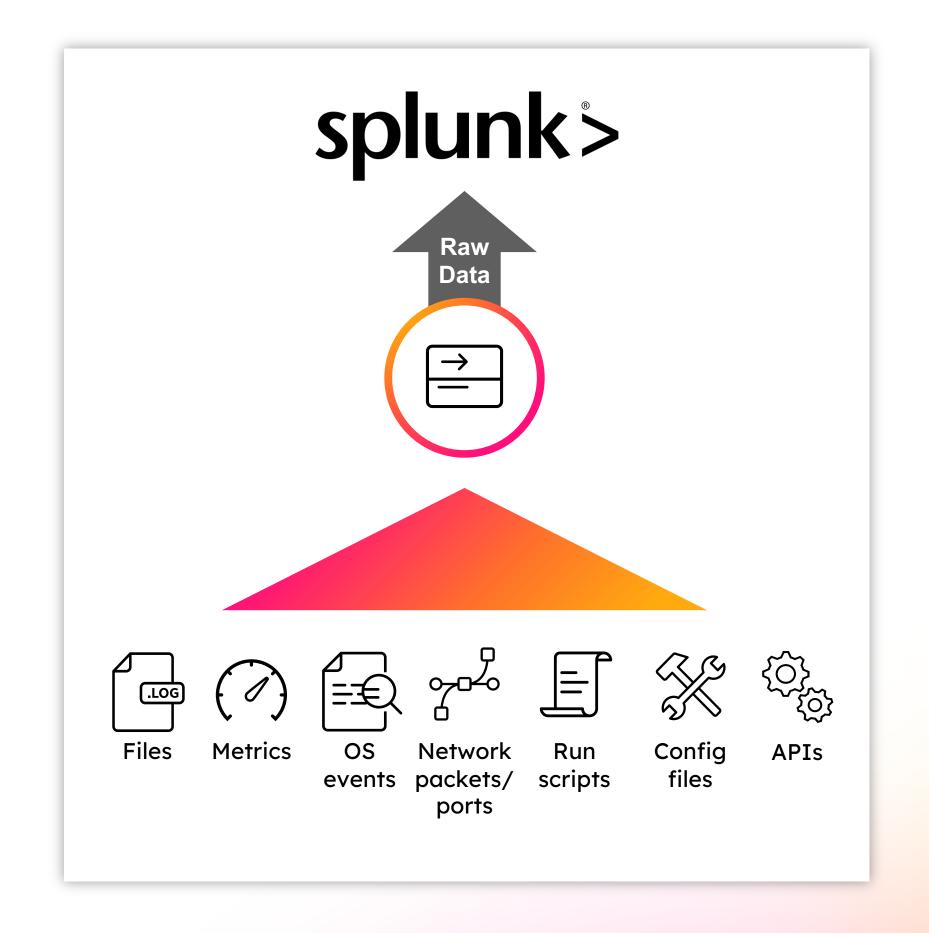
- HTTP Event Collector (HEC)
- Agentless

Wire Data

- via Splunk Stream
- HTTP Event Collector (HEC) or Universal Forwarder

What is a Splunk Universal Forwarder?

- Reliable collection of data from remote locations
- Includes methods for collecting from a variety of data sources
- **Lightweight** but powerful:
 - Buffering / guaranteed delivery
 - Encryption
 - Compression
 - Load balancing
 - And more!
- Very small footprint
- Just forwards data no parsing beforehand!



How Data Moves Through Splunk

INDEXING Parsed events written to index on disk Writes both compressed raw data & the corresponding index files **PARSING** Event processing occurs here • Examine, analyse & transform data • Identify, parse & set timestamps Apply regex transform rules **INPUT** Raw data stream from source Contents ignored, no events

DATA RETENTION

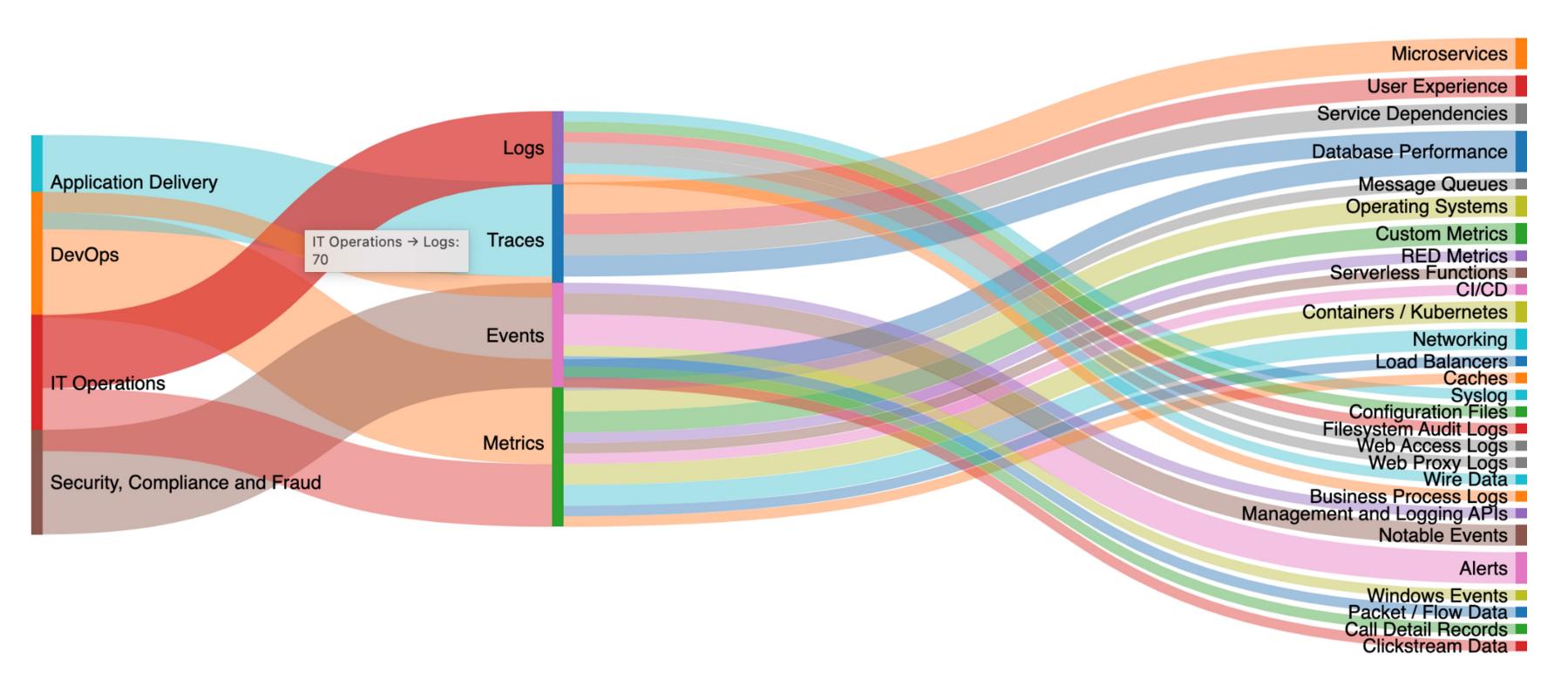
- Buckets: HOT, WARM, COLD,
 FROZEN and THAWED
- Cloud: Smart Store, Active Archive

SEARCH

- Manages how the user accesses, views and searches the indexed data
- Stores knowledge objects: reports, event types, dashboards, alerts and field extractions

Multiple Use Cases On Common Data

Drives system security and observability



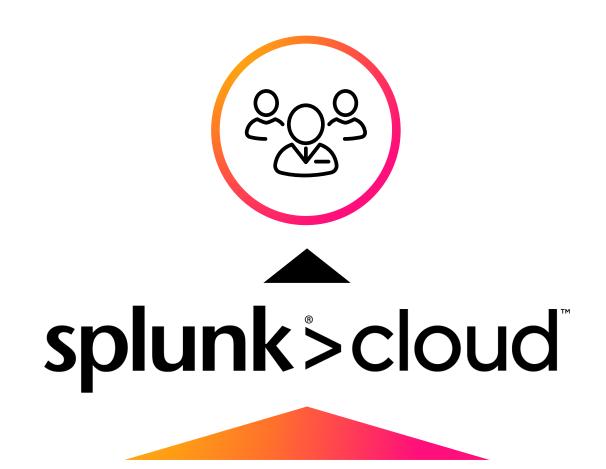
Core Splunk Cloud

Splunk as a Service

Fastest time to value | Minimum Infrastructure | Maximum Value

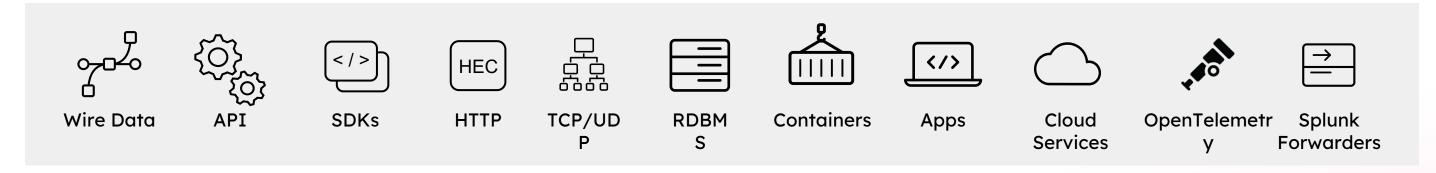
3 Simple Steps:

- 1. Onboard data
- 2. Onboard users
- 3. Get value from your data



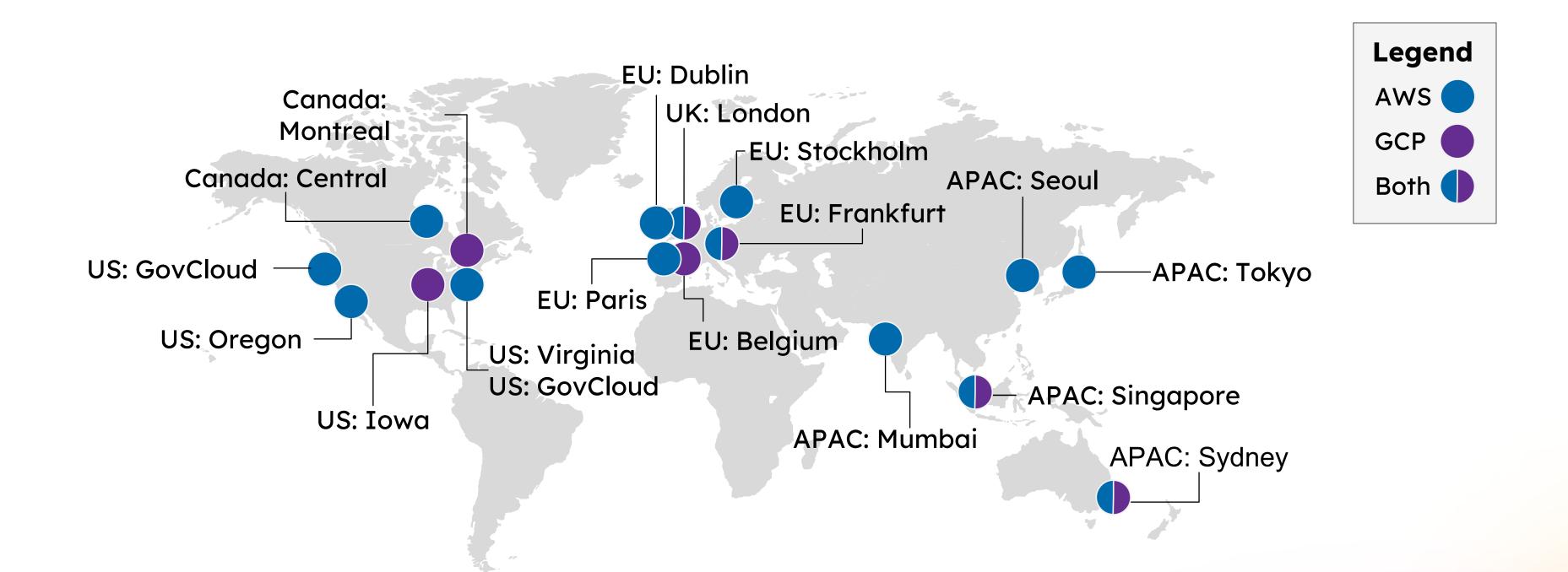
- Fastest time to value
- Software as a service AWS or GCP
- Secure ISO 27001, SOC 2 Type II, PCI DSS, HIPAA, FedRAMP Moderate, DoD IL5, IRAP
- Encryption-in-transit plus optional encryption-at-rest
- Resilient infrastructure
- 100% uptime guarantee
- 24/7 NOC/SOC support team

Flexible options for data collection and forwarding



Splunk Cloud Service Description: https://splk.it/SplunkCloudServDesc

Splunk Cloud Regions on AWS & GCP



Splunk Apps

Splunkbase

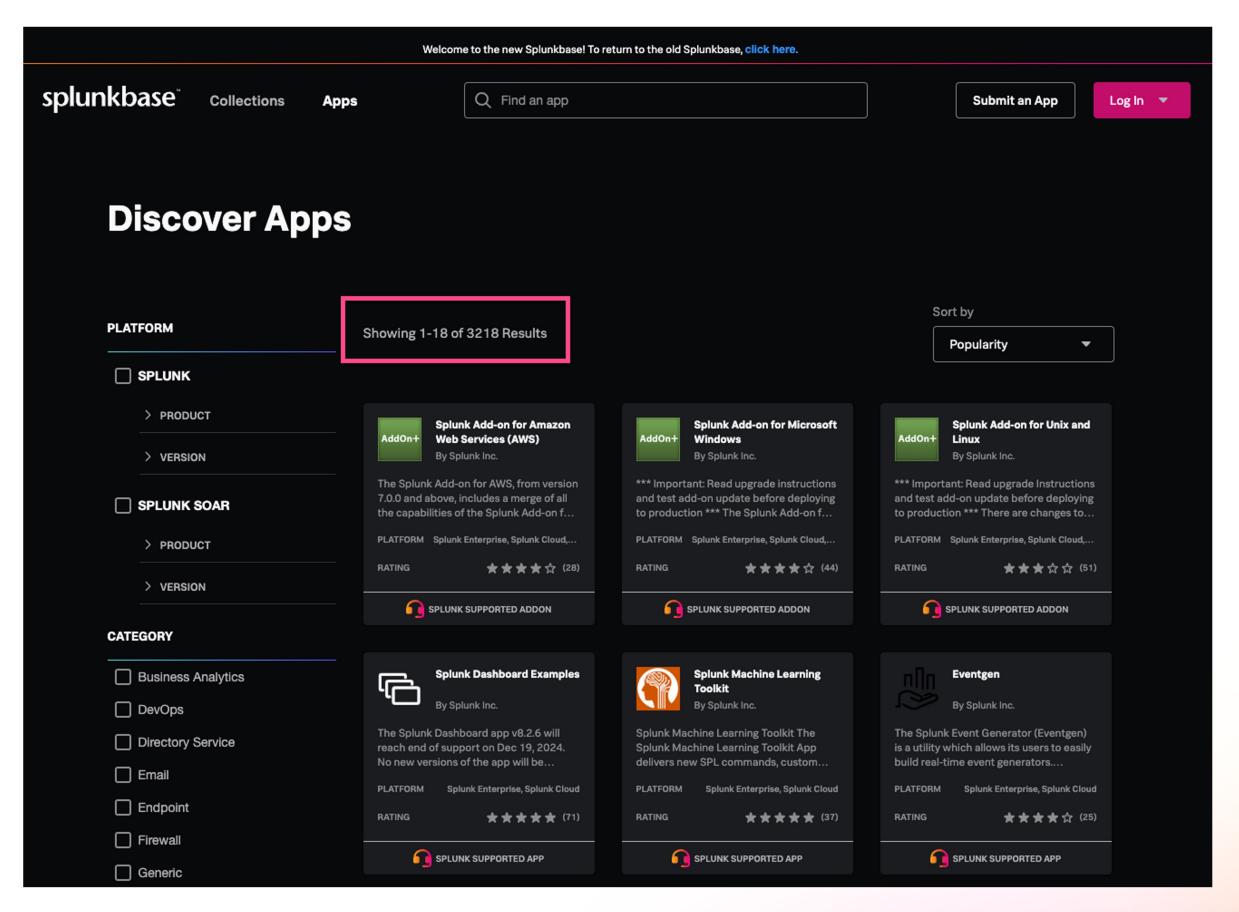
Splunk App Store Portal

Splunk Application

- Unified structure
- Extension to Splunk capabilities
- Vetted before submission!

App purpose

- Search-time parsing
- Index-time parsing
- Modular input
- Alert actions
- Custom visualizations
- Reports, Dashboards



https://apps.splunk.com

Splunk Apps

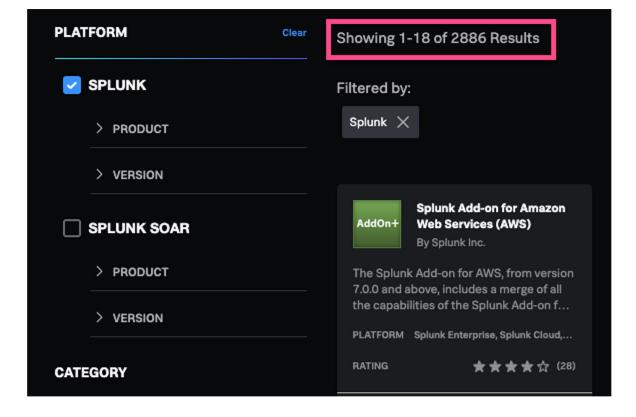
Apps support

- Splunk | Splunk Cloud
- Splunk SOAR

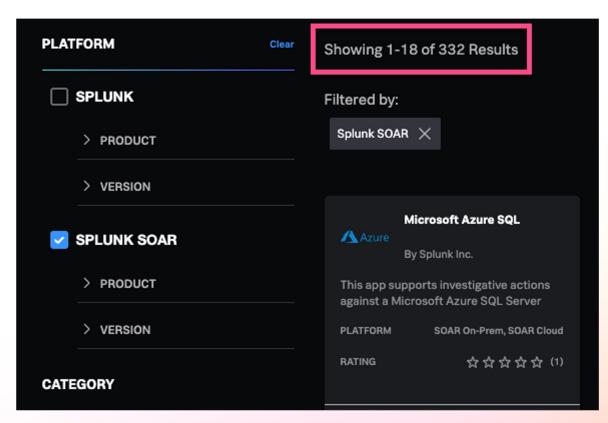
Where to install on Splunk?

- Any Splunk core node
- Splunk HF
- Splunk UF
- Splunk Cloud
 - private apps must be vetted!

Splunk Core (2886)



Splunk SOAR (332)



Splunk Security

Splunk Security Portfolio

DATA



splunk > cloud
splunk > enterprise

ANALYTICS













OPERATIONS

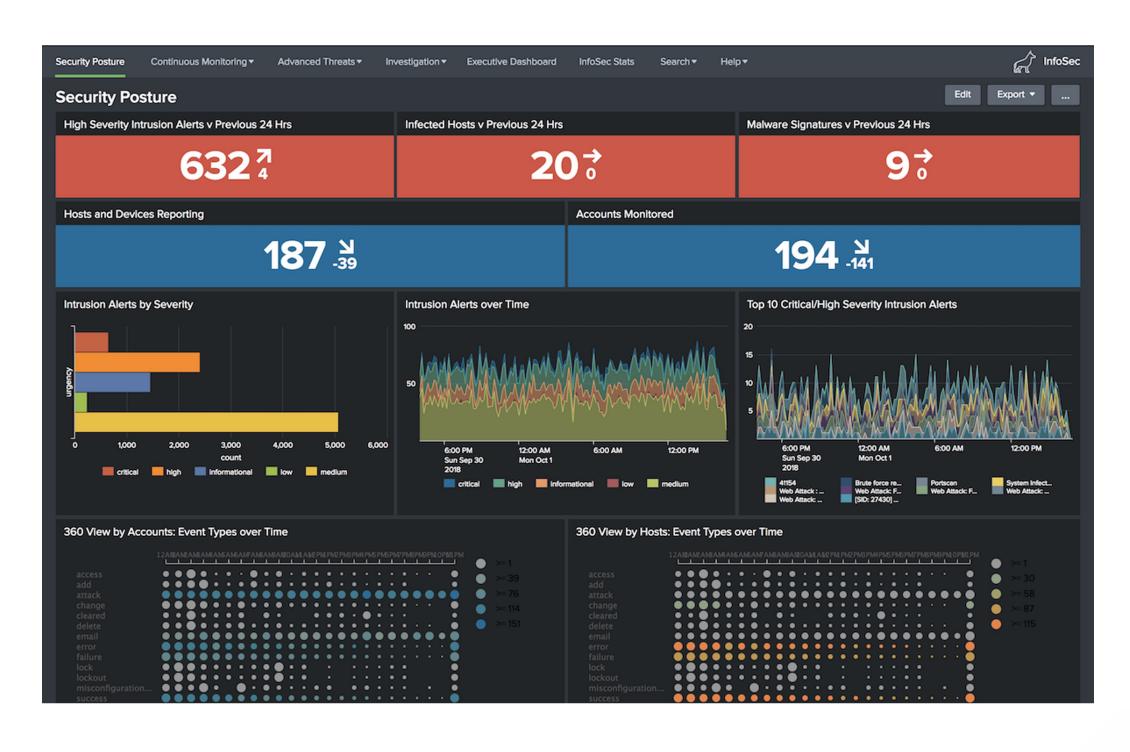






ADAPTIVE RESPONSE

Splunk InfoSec App

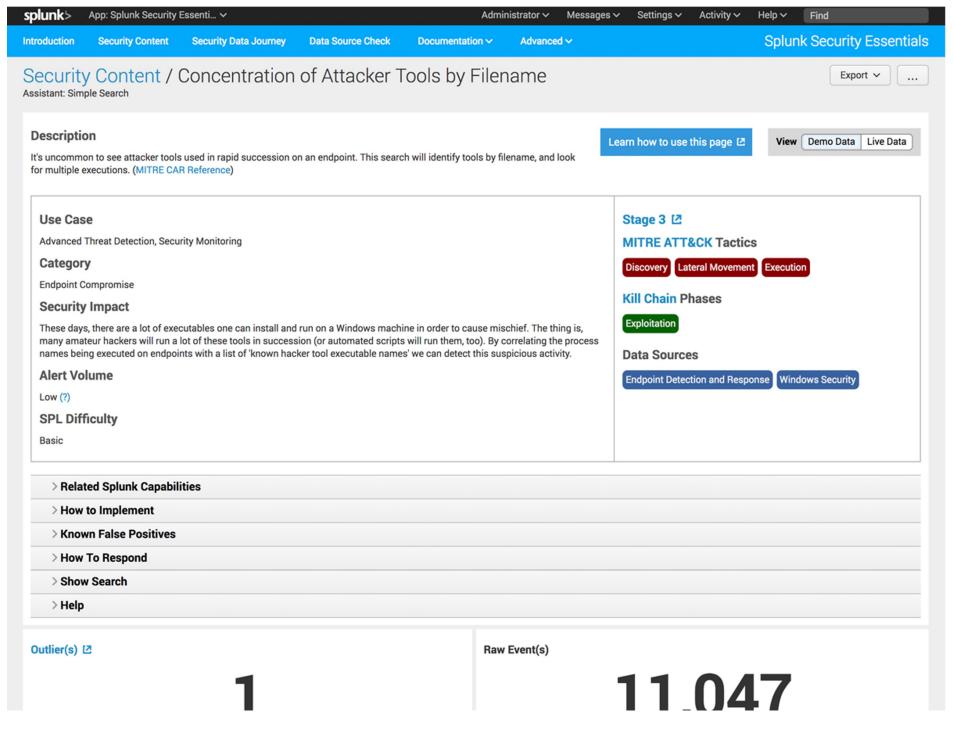


The app uses the most common security data sources to quickly get most value out of Splunk

- Firewall & Network
- Authentication (AD)
- Antivirus & Malware
- Endpoint data

https://splunk-infosec-documentation.readthedocs.io/en/latest/https://splunkbase.splunk.com/app/4240/

Splunk Security Essentials (SSE)



Provides recommendations to guide you through your security maturity journey

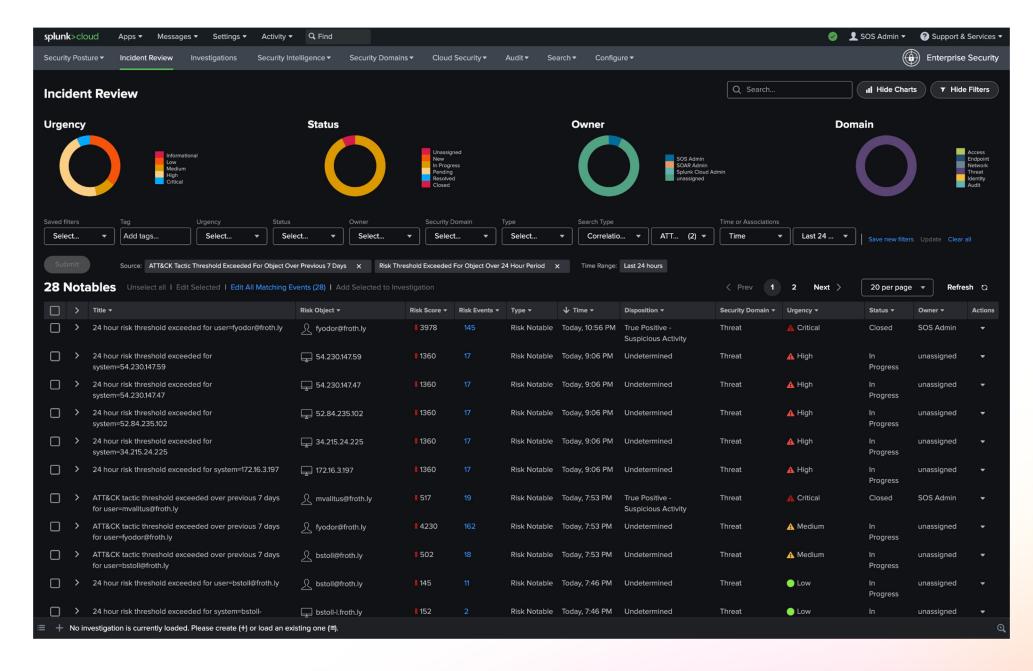
- 1300+ pre-built security detections and analytic stories
- mapping security data to MITRE ATT&CK and Cyber Kill Chain frameworks
- learn what use cases you can run with the data you are already collecting

https://docs.splunksecurityessentials.com/ https://splunkbase.splunk.com/app/3435/

Splunk Enterprise Security (ES)

Splunk ES provides the security practitioner with visibility into security-relevant threats:

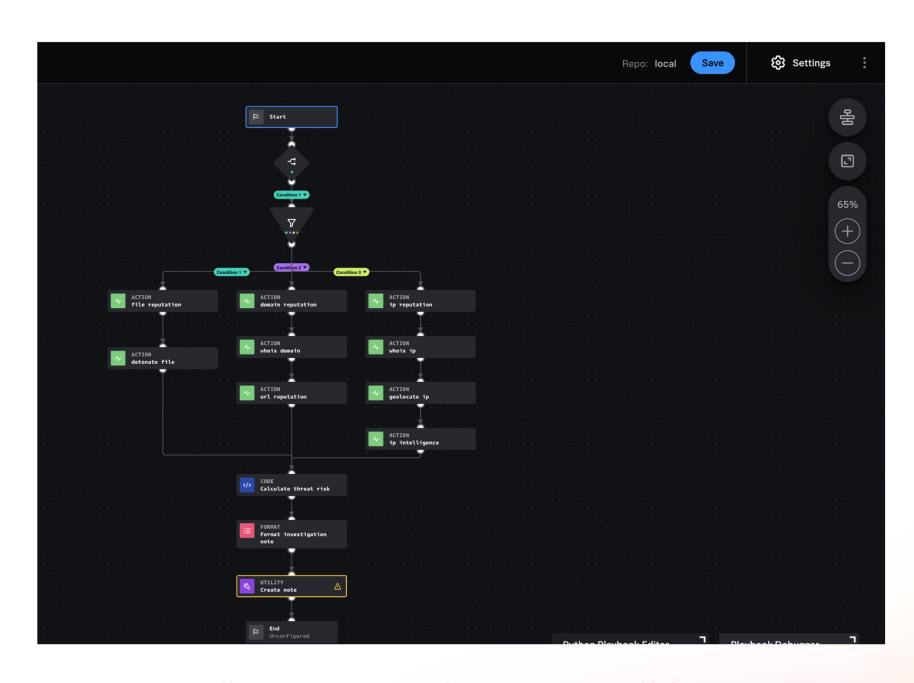
- it is built on the Splunk core platform and uses the search and correlation capabilities
- users can capture, monitor, and report on data from security devices, systems, and applications
- security analysts can quickly investigate and resolve the security threats across the access, endpoint, and network protection domains.



Splunk SOAR

Splunk SOAR combines security infrastructure orchestration, playbook automation, and case management capabilities:

- help you orchestrate security workflows
- automate repetitive security tasks
- quickly respond to threats
- access and run actions that are provided by the third-party technologie

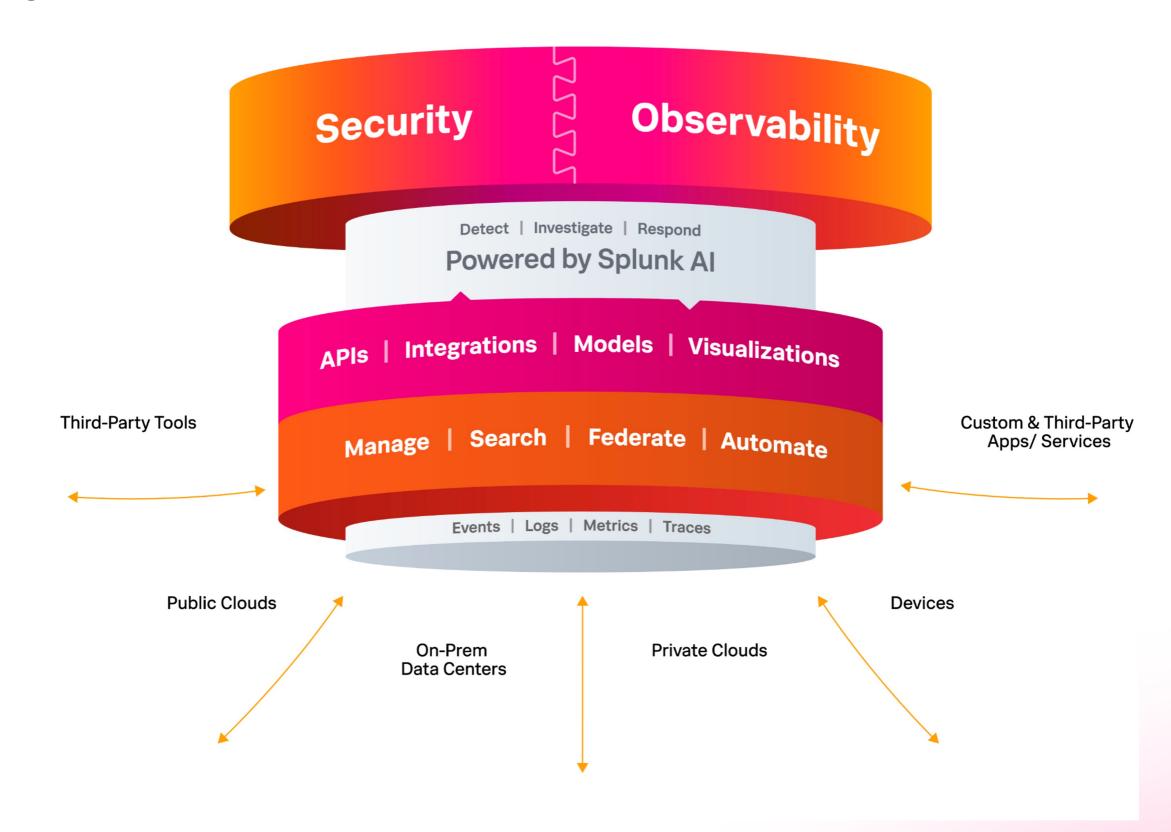


https://docs.splunk.com/Documentation/SOAR

Splunk Observability

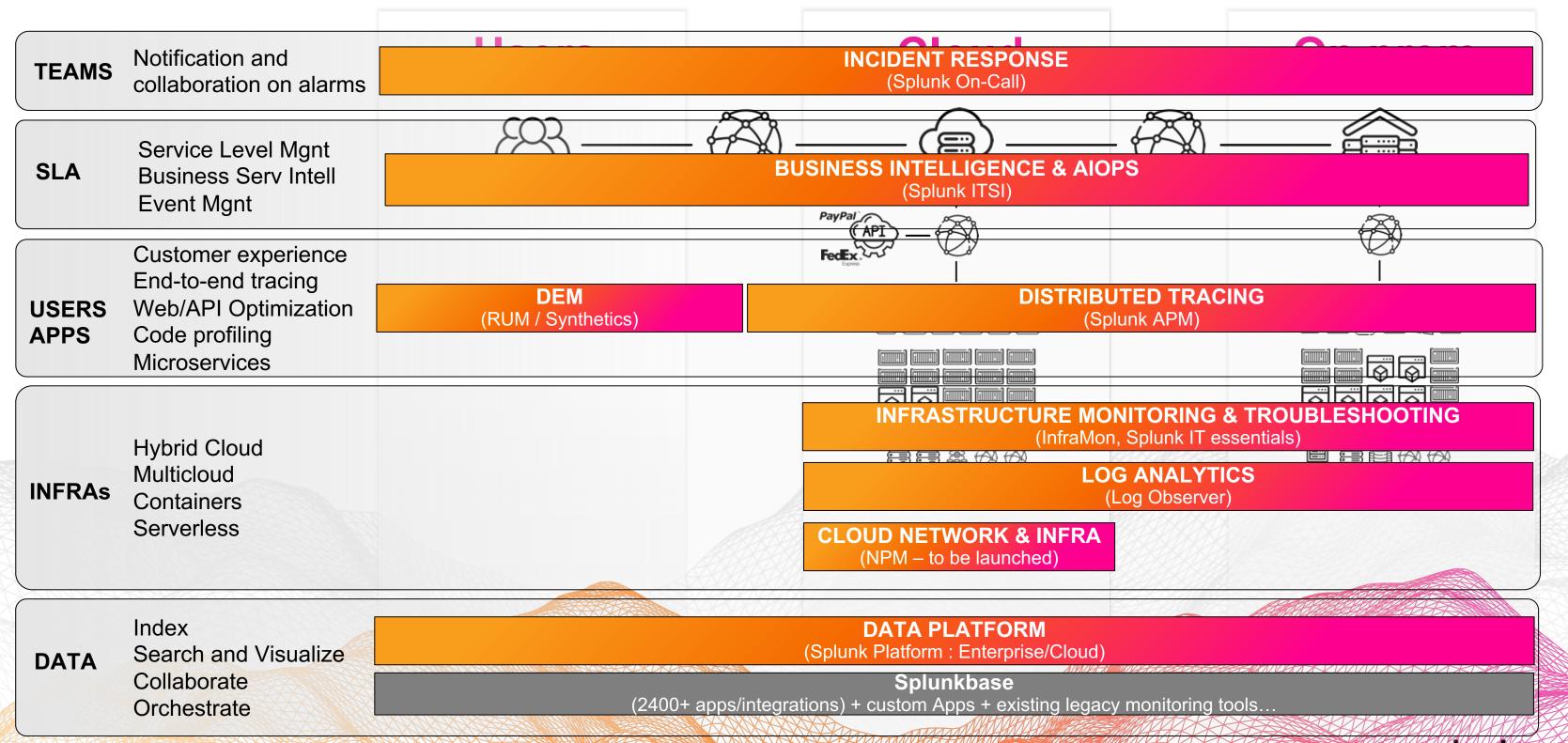
The Unified Security and Observability Platform

The foundation for Digital Resilience





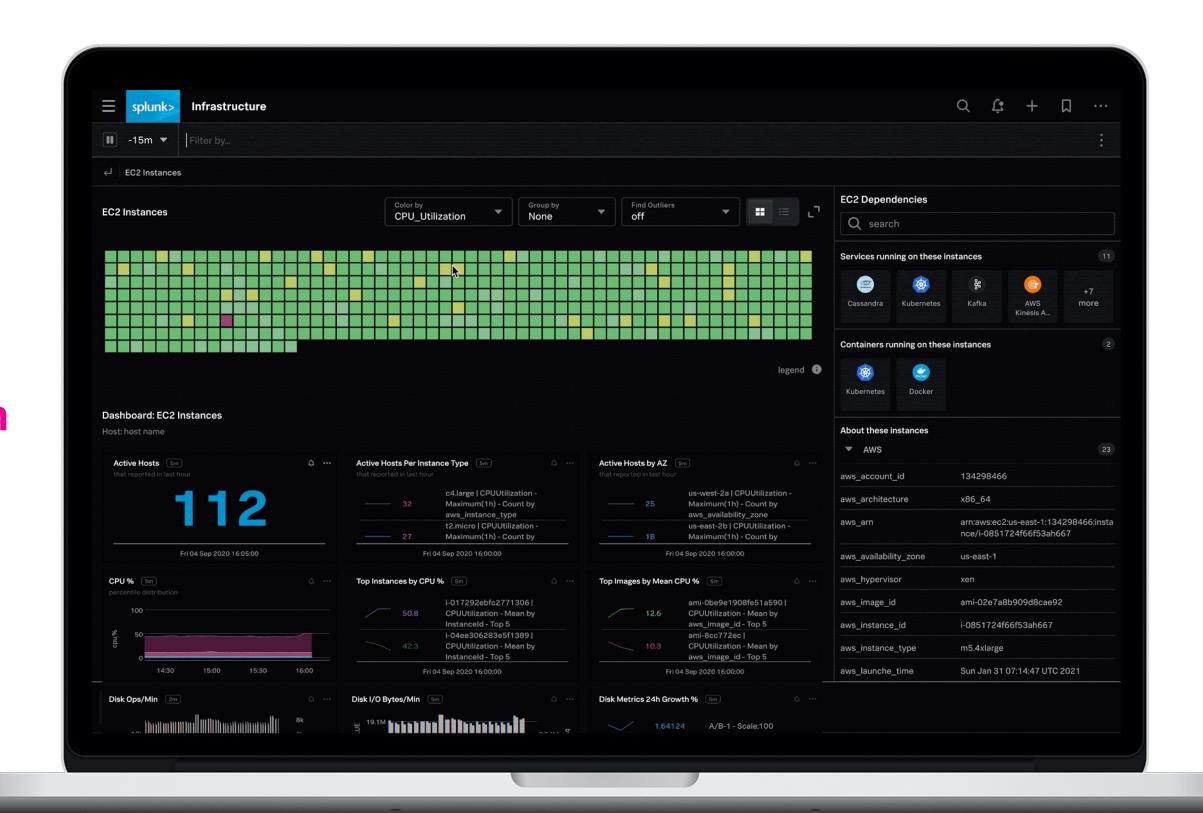
Where can Splunk help?



Splunk Infrastructure Monitoring

Built on a real-time streaming metrics platform

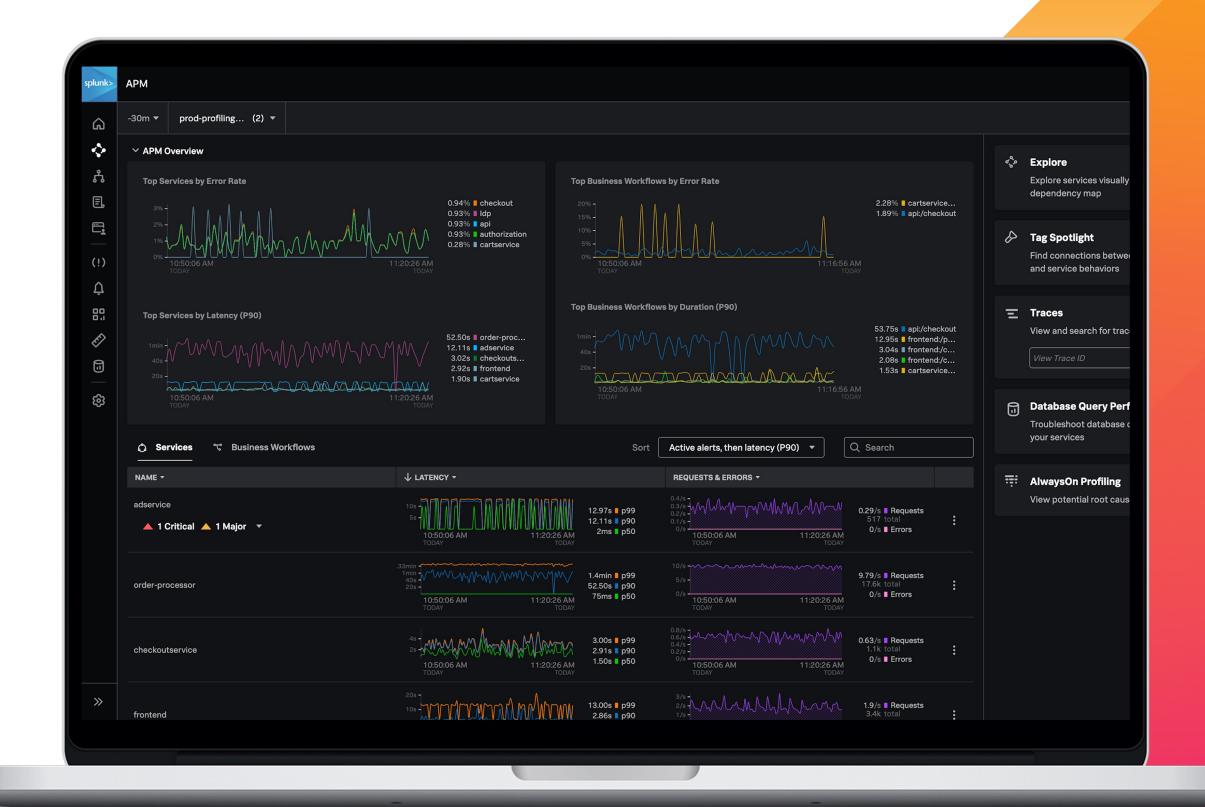
- On-prem to multi cloud monitoring
- Linux, Windows, VMware
- AWS, Google Cloud, Azure
- Kubernetes & Serverless
- Automatic service discovery
- 200+ pre-built integrations
- Analytics-driven alerting



Splunk APM

End to end visibility to isolate problems faster, from monoliths to microservices

- Analyze every transaction from web and mobile apps, to backend services and database queries, to troubleshoot faster
- Continuously measure how your code impacts CPU and memory allocation to identify slowness and bottlenecks in your services
- Quickly identify the sources of latency, errors, and anomalies with Al-directed troubleshooting and dynamic telemetry maps



Splunk Synthetic Monitoring

Optimize performance and ensure exceptional CX with every deployment

- URL, API & service performance alerts
- 50+ public locations simulate performance of users globally
- Test within CI/CD pipelines to autopass/fail SLA-tier deployments
- 300+ performance recommendations prioritize issues & optimize critical web services



Splunk Synthetic Monitoring

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Splunk IT Service Intelligence (ITSI)

Splunk's AlOps Solution

Splunk ITSI applies machine learning to **proactively prevent outages** by correlating and reducing alerts, monitoring service health, and streamlining incident management.

- Clustering & aggregation to reduce alert noise
- Adaptive (dynamic) thresholds incorporate seasonality
- Anomaly and outlier detection
- Actionable additional context
- Assisted root cause investigation
- Predict service health to prevent outages

New updates! .conf23 ★

- Outlier Exclusion in Adaptive Thresholds
- ML-Assisted Thresholding (Preview)



Splunk AI

AI and ML capabilities across our portfolio accelerate detection, investigation, and response.

Our approach



Domain and Splunk specific



Human-in-the-loop and trusted



Open and extensible

What we offer

Generative AI

Make sense of the signal to improve user productivity and outcomes

Foundational AI

Find the signal from the noise in vast amounts of data

Splunk AI

Catalyze Resilience with Embedded Al and Machine Learning

AI FOR SECURITY

Enterprise Security, UBA

ML-Powered Detections, Anomalous User Actions

AI FOR OBSERVABILITY

ITSI, APM, IM, On-Call

Predictive Analytics, Anomaly Detection, Adaptive Thresholding, Incident Correlation, Alert Noise Reduction, Alert Autodetect, Suggested Responders

Assistive Intelligence Experiences

Splunk Al Assistant, Splunk App for Anomaly Detection

Customizable ML

Splunk Machine Learning Toolkit, Splunk App for Data Science and Deep Learning, Python for Scientific Computing

THE SPLUNK PLATFORM

Powerful search commands for statistical analysis, predictive analytics and clustering

DEMO Splunk

Thank you

