



Artificial Intelligence and the Future of Search

September 2024

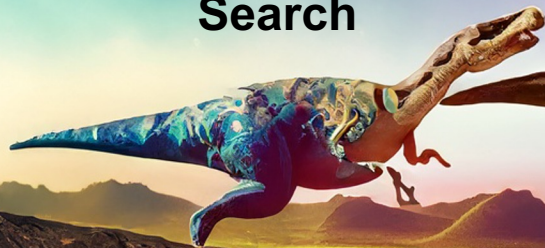
Chris Pozezanac

Manager, Solutions Architecture

Gen AI



Search





About Elastic

A Brief Overview

- ✓ Founded 2012, IPO 2018, NYSE: "ESTC"
- ✓ 3,500+ employees in 40+ countries
- ✓ 54% Fortune 500 companies
- ✓ World's #1 database search engine ([DB-Engines](#))
- ✓ Over 4 billion downloads

One **Search** Analytics Platform

Two Out-of-the-Box Solutions

The Freedom to Build Anything



Deployment models



Elastic Cloud Enterprise (ECE)

Manage a fleet of clusters in any infrastructure



Elastic Cloud for Kubernetes (ECK)

Manage a fleet of clusters in Kubernetes on any infrastructure

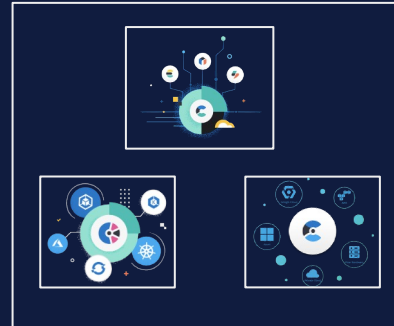


Elastic Cloud

Managed and hosted service on Google Cloud, Azure, AWS, Alibaba, Tencent, IBM.

Support for latest ARM Graviton processors

Run ML models on GPU compute of your choice



Hybrid

One single pane of glass regardless where you host your clusters with [Cross Cluster Search](#)

Generative AI apps come with specific challenges:

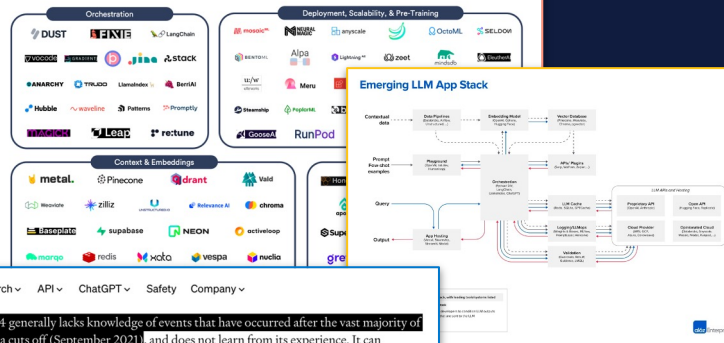
- Hallucination, Bad Answers
- Real-Time Access to Private Data
- Security & Privacy
- Cost - Context Window = \$\$\$
- Out of Date on release
- Bias encoded in the models

Lawyer Used ChatGPT In Court— And Cited Fake Cases. A Judge Is Considering Sanctions

Molly Bohan
1 cover break

BASE10 TREND MAP: Generative AI: Developer Tools & Infrastructure
Companies are grouped based on primary developer use cases

Base10



OpenAI

Research API ChatGPT Safety Company

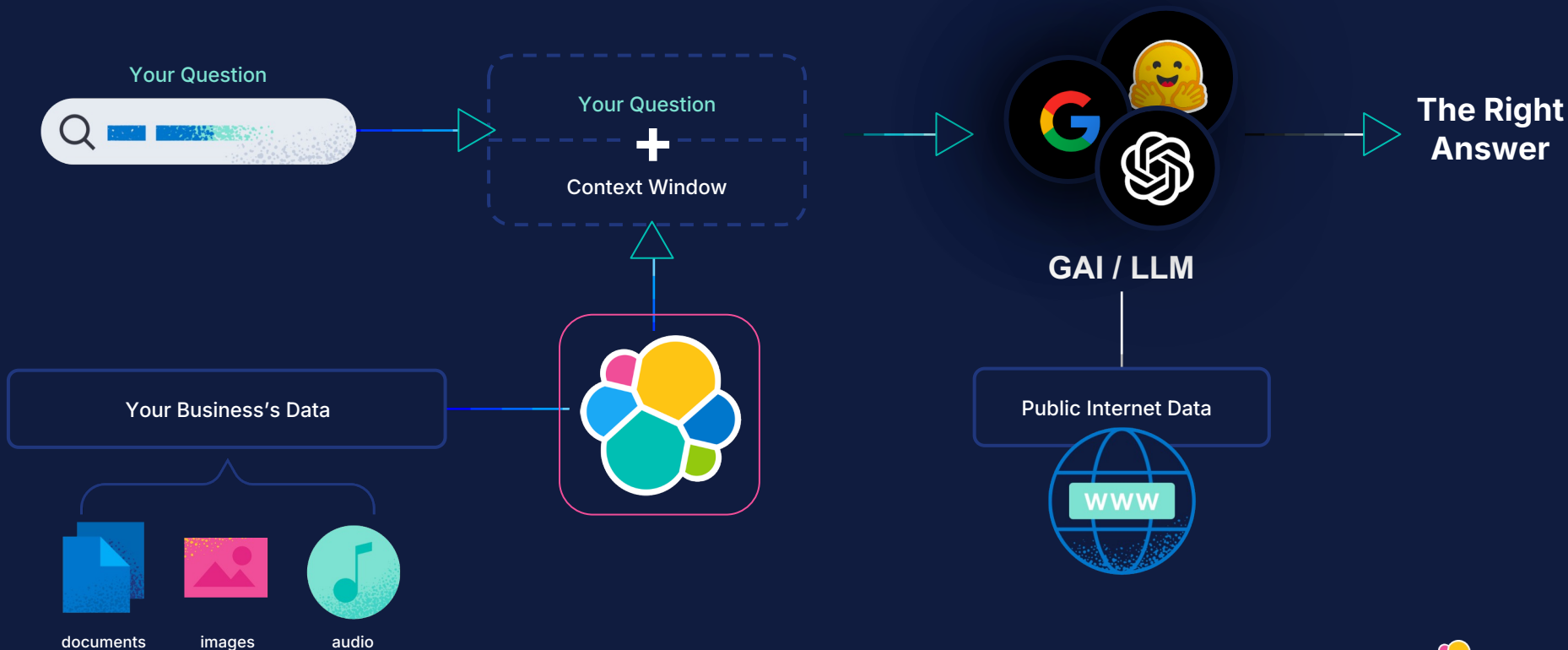
GPT-4 generally lacks knowledge of events that have occurred after the vast majority of its data cuts off (September 2021), and does not learn from its experience. It can sometimes make simple reasoning errors which do not seem to comport with competence across so many domains, or be overly glib in accepting obvious false statements from a user. And sometimes it can fail at hard do, such as introducing security vulnerabilities into code.

Samsung bans use of generative AI tools like ChatGPT after April internal data leak

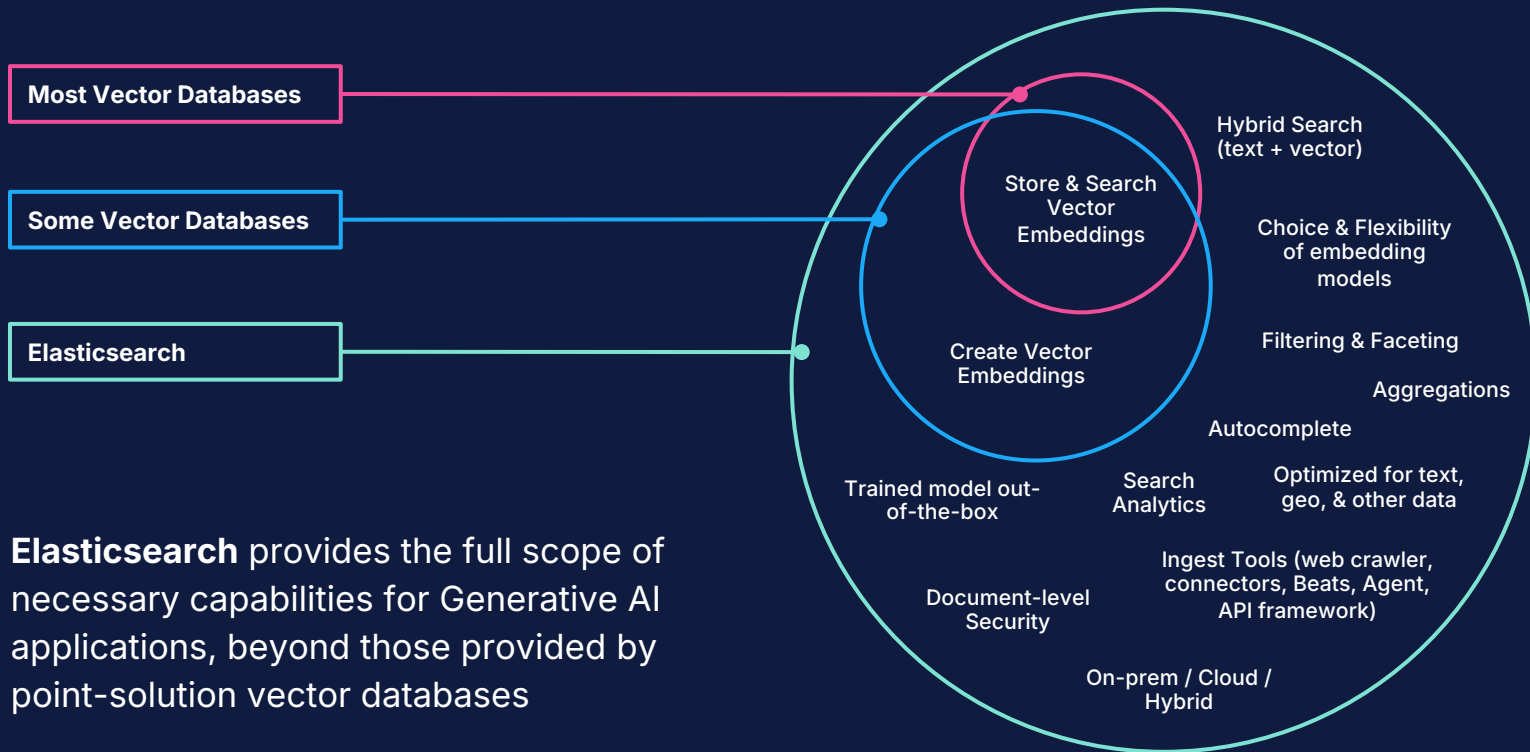
Kate Park @kateparknews / 9:17 AM EDT • May 2, 2023

Comment

Elasticsearch Relevance Engine™ for RAG

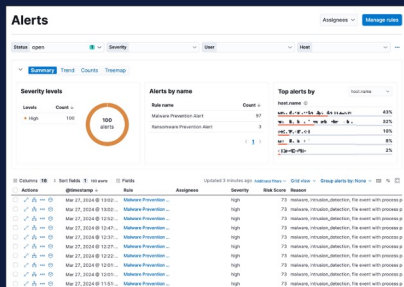


Elastic has ALL the capabilities you need



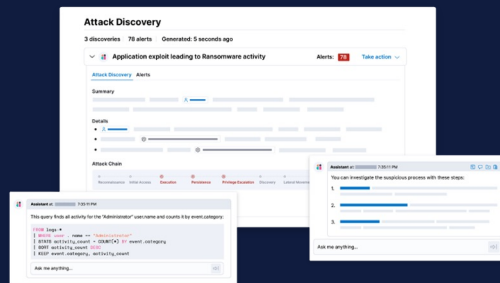
Automate Security Detection, Diagnosis & Remediation with GenAI

Detection



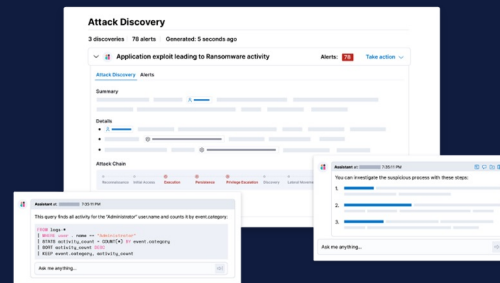
- Anomaly Detection
- ML-powered Detection Rules

Diagnosis



- Attack Discovery
- Root Cause Analyzer

Remediation

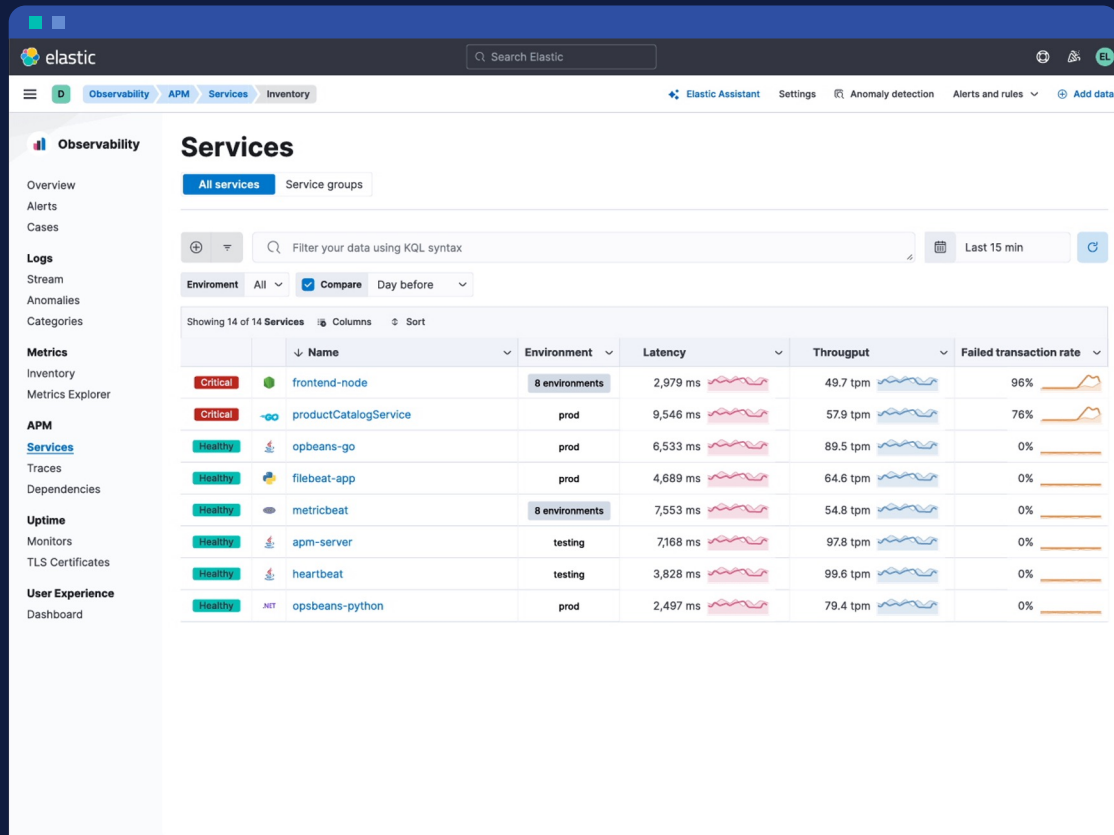


- Security Playbook Generator
- SRE Runbook Generator
- Autonomous AI responses via workflows
- Fix others like this...

AI Assistant

Powered by **ESRE** Elasticsearch
Relevance Engine™

- Accelerate incident management and root cause analysis
- Interactively explore problems and execute remedies with generative AI
- Context-aware, business-specific output you can trust
- Based on your proprietary data and runbooks



Elastic in Financial Services

FSI Use Cases & Customers

- **Searching for relevant** payments, investments transactions, and services
- **Analyzing data** for a more complete view of customers, users, transactions, trades, (incl. fraud/AML, customer service, etc)
- **Unified Observability & Security** to find answers fast, resolve problems, and protect their customers and reputation
- **Leveraging GenAI** and Elastic's unique capabilities to advance these use cases and more...



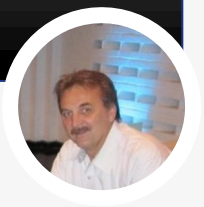
Wells Fargo accelerates digital innovation to put customers first with Elastic Observability

Industry: Financial Services Location: USA

“

“Elastic gives us the confidence to build and deploy innovative solutions faster.”

Joe Korchmar
Distinguished Engineer
Wells Fargo



READ THE STORY



CUSTOMER BIO

One of the four largest banks in the U.S., **Wells Fargo** has approximately 4,900 branches, 12,000 ATMs, and 70M customers worldwide, including one in three U.S. households.



THE ELASTIC SOLUTION

- Wells Fargo monitors its applications and the back-end services with Elastic to track KPIs, customer responsiveness, application availability, and MTTR.
- With distributed tracing through **Elastic Observability**, Wells Fargo operations and development teams have improved insights and greater confidence when bringing new capabilities and applications to market.



THE CHALLENGES

- Tracking business to business (B2B) and business to consumer (B2C) financial transactions in near real-time.
- Accelerating financial services time to market.



THE OUTCOMES

- Ability to analyze application flows in near real-time
- Provides visibility to development and operations teams to quickly identify root cause, slow performing code, and resolve issues faster.
- Monitor and address events across all systems in near real time and focus attention on the areas that have the greatest impact on the bank's operating costs and revenues.



Conversational Search with watsonx Discovery

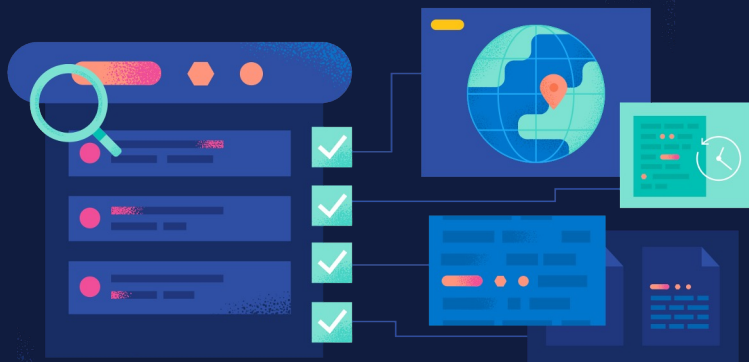
Combining IBM's market leading conversational search experience, and large language models with Elastic's powerful and flexible retrieval engine.

- **Natural language search**
- **Federated across locations**
- **Vector search combining multiple data sources**



What's Next for Search?

From investing in the **core**
building blocks of Search + AI



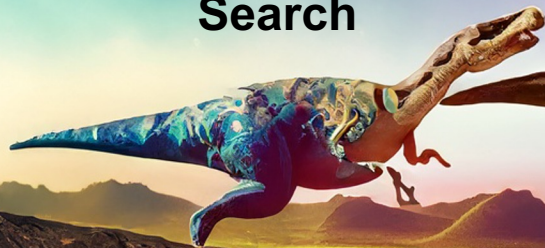
To making it **easy** to build the
best Search + AI experiences

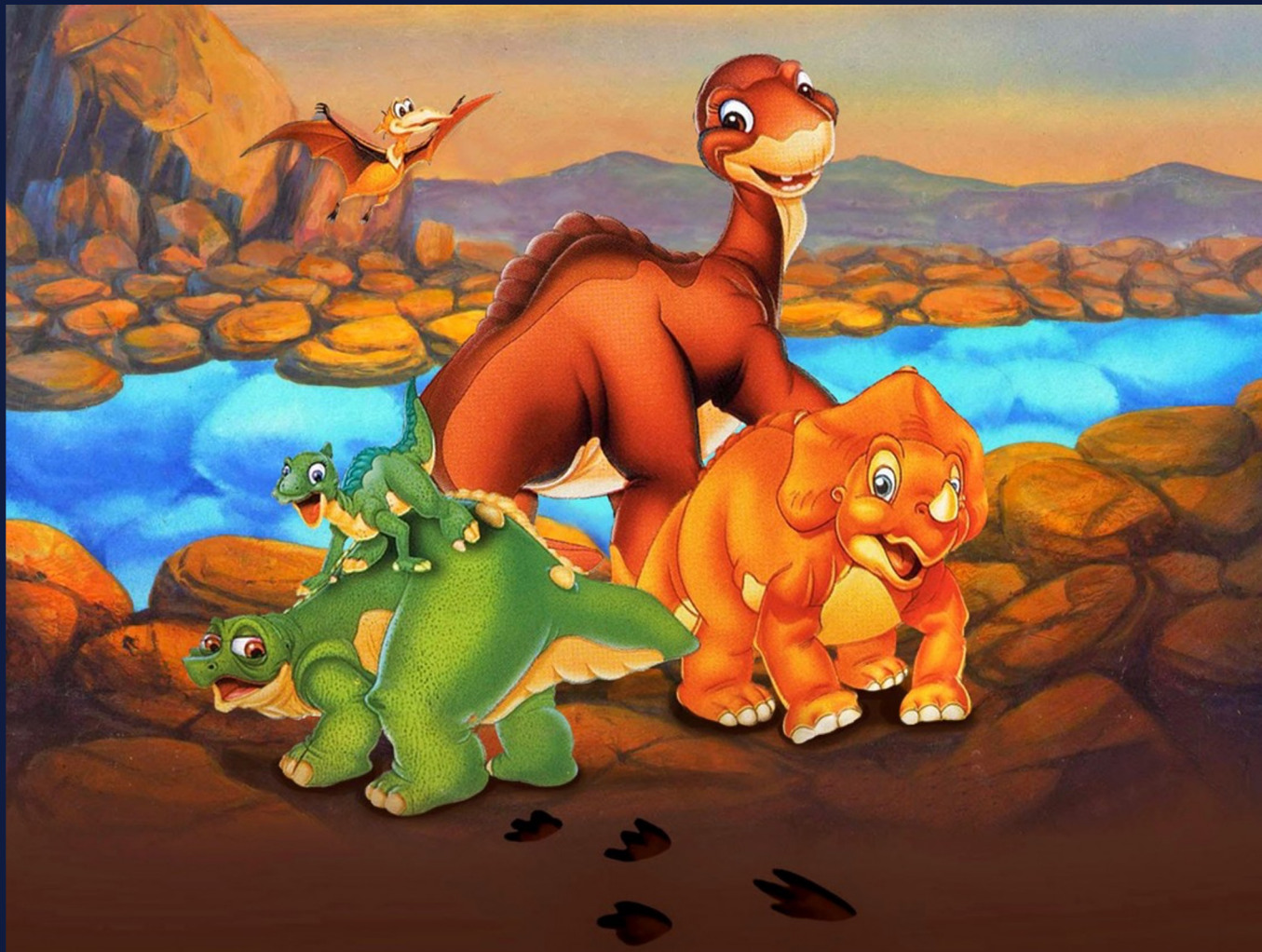


Gen AI



Search







November 13 | New York City

ElasticON Tour: Supercharge <anything> with Search AI



[elastic.co/events/elasticon/
new-york-city](https://elastic.co/events/elasticon/new-york-city)

