NVIDIA AND GRAPHISTRY SCALE VISUAL INVESTIGATION

Analysts responsible for covering security, fraud, and user behavior are overwhelmed by event data. They're struggling with tasks like gathering the right data, understanding the key patterns, relationships, anomalies, outliers, and quickly taking action. Scalable graph technology enables analysts to quickly identify the patterns and outliers in their data.
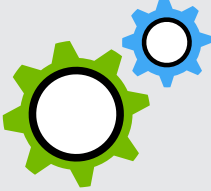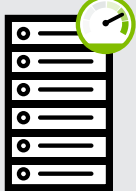
INDUSTRY CHALLENGES

> Tedious for analysts to identify connections in data and understand behavior

> Difficult to hire and retain junior and senior case analysts

> Inability to leverage multiple data platforms within a session

> Legacy technology can only visualize sample data sets up to 10k data points

INTEGRATED SOLUTION

NVIDIA and Graphistry deliver industry-leading hardware and software to power an investigation platform that businesses can rely on for visualizing millions of connected events and entities. Graphistry on NVIDIA DGX™ systems and NVIDIA GPUs provide the best-in-class visualization, and automation solution for investigation teams that need to quickly query, analyze, visualize, and act on growing event volumes.
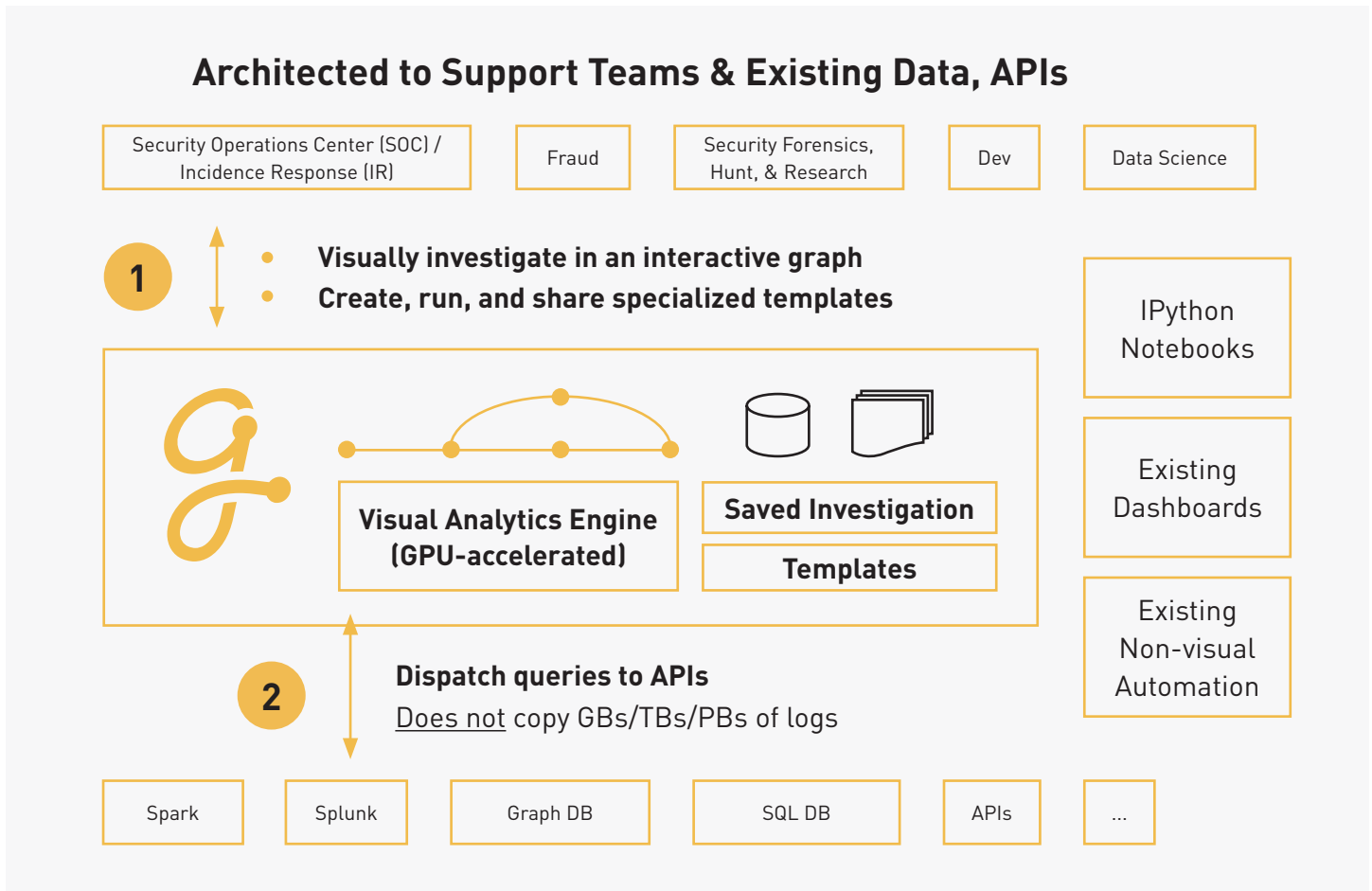
Together, NVIDIA and Graphistry Deliver

INTERACTIVE GRAPH EXPLORATION

Reveal root cause, progression, scope, patterns, outliers, and correlations

Gain insights into events & entities that are missed by tables, charts, and maps

INTELLIGENT AUTOMATION

10-100X faster on NVIDIA GPUs and more reliable analysis through templated investigation sequences

Visual querying and drill downs—write significantly less code and achieve more sophisticated queries

SCALE AT SPEED

10-100X faster on NVIDIA GPUs over CPU-based D3.js, Palantir, Maltego, SQRRL, Linkurious, Keylines for both rendering and clustering

See 10-100X more data for 1 million+ entities

Graphistry Marketecture

Architected to Support Teams & Existing Data, APIs

| Security Operations Center (SOC) / Incidence Response (IR) | Fraud | Security Forensics, Hunt, & Research | Dev | Data Science |

1
- **Visually investigate in an interactive graph**
- **Create, run, and share specialized templates**

Visual Analytics Engine (GPU-accelerated)

Saved Investigation

Templates

IPython Notebooks

Existing Dashboards

Existing Non-visual Automation

2 **Dispatch queries to APIs**
<u>Does not</u> copy GBs/TBs/PBs of logs

| Spark | Splunk | Graph DB | SQL DB | APIs | ... |

Industry Insights

Customers everywhere are using massively parallel graphics processors and interactive visualization to provide higher throughput for compute-intensive workloads and achieve significant performance gains without the hidden cost of scale-out architecture, resulting in dramatic cost savings.

Categories	Use Case
AI & ML Model Visibility	Visually test, monitor, and inspect daily changes to AI models, for explaining clusters of false positives.
Anti-Fraud, Operational Risk	Visually analyze common and tricky incidents spread over many events involving accounts, users, devices, transactions, and more.
Commercial Loan Risk	Identify risky loans and models by understanding financial history, dependencies, and changes from across diverse data sources and models.
Customer 360 & Retail	Explore customer journeys and segments to guide projects in engagement, targeting, churn, risk, and feature selection.
IT Infrastructure: NetOps+DevOps	See large physical and logical systems, as well as event activity to increase visibility and simplify troubleshooting, monitoring, and onboarding.
Market & Survey Analysis	Visually reveal segments, commonalities and outliers, relationships, and behaviors.
Security Operations Center (SOC) / Incidence Response (IR)	Faster and more reliable investigation and response by augmenting log search and dashboard views with visual playbooks powered by visual graph analytics.
Security Forensics, Hunt, & Research	Visually analyze many endpoints and big logs with scalable graph-based visual event analytics.
Patient 360	See how many patients and employees interact with each other and the system to improve patient happiness, outcomes, and turnaround.

Recommended NVIDIA Hardware

NVIDIA GPUs are available in servers, supercomputers, and cloud services around the world. You can now get end-to-end accelerated analytics solutions powered by NVIDIA GPUs with supporting software technologies and support from NVIDIA experts.

TESLA	DGX SYSTEMS	CLOUD
SERVERS IN EVERY SHAPE AND SIZE	**THE ESSENTIAL AI TOOLS FOR INSTANT PRODUCTIVITY**	**EVERYWHERE**
Hewlett Packard Enterprise, IBM, Quanta Computer, Dell, Lenovo, CRAY, CISCO	NVIDIA	Google Cloud Platform, IBM Bluemix, Microsoft Azure

Find Out More

NVIDIA GPUs for accelerated analytics—helping customers effectively analyze, visualize, and unleash the power of AI to transform their digital business into an AI enterprise.

Website: **www.nvidia.com/analytics**
Contact: **dgxanalytics@nvidia.com**
Partner Webpage: **www.nvidia.com/dgx-apps**
Twitter: **@NvidiaAI**
Blog: **blogs.nvidia.com**

Graphistry: visual investigation platform allows analysts to interactively explore millions of events and data points at unprecedented speed in an enhanced visual graph.

Website: **www.graphistry.com**
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