



# Virtana and Google Cloud Solution Brief

Virtana provides the leading secure, SaaS-based deep infrastructure monitoring platform for the world's largest organizations.

Virtana is the first intelligent IT operations management platform that streams and normalizes all machine data, uniquely enabling the emergence of context for preventing service disruptions in complex, modern IT environments.

Virtana natively supports cloud resources, including containers and microservices, and dynamically maps which resources belong to which services, even as resources and services are moved. This gives operations an accurate and up-to-date line of sight into the health of a service and its supporting infrastructure. The elimination of blind spots both across the enterprise and deep within infrastructure resources allows operations to zero in on compromised resources long before they affect users, critical services or the bottom line.

Virtana needed a cloud partner that was clearly positioned to rapidly deliver a next-generation IT operations management solution for our users.

## GOOGLE CLOUD + VIRTANA: KEY BENEFITS

- ✓ Reduce mean time to resolution (MTTR) by 85%
- ✓ Reduce monitoring software licensing by 90%
- ✓ Increase IT administrator productivity by 50%
- ✓ FedRAMP certified
- ✓ Regulatory compliance for regulated industries, including finance, pharmaceutical and manufacturing
- ✓ Fully tested and supported integration

## Here are just a few reasons why Virtana runs on Google Cloud Platform:

### Time to Market

In Google Cloud Platform (GCP), orchestration and management of streaming data clusters are mostly handled using serverless resources, ranging from simple container management (GKE) all the way to the elastic storage (Bigtable) that Google uses for Gmail and other popular services. GCP's combination of native services allows our engineering and operations teams to focus less on managing prerequisites, which results in more end-user functionality

### Cost and Security

GCP's cost structure is ideally aligned with that of the never-ending data streams emulating from an IT operations environment. With per-second billing and automatically applied discounts, Virtana focuses engineering efforts on customer value instead of how to regulate costs. GCP's global private network with default encryption at every layer lowers costs while ensuring customer data is protected at rest and in motion. GCP also carries across-the-board FedRAMP certification(s) and bulletproof security down to the chip — all of which align perfectly with finance, government and MSP expectations.

### Artificial Intelligence

Google consumer services have used artificial intelligence (AI) at scale for years. GCP was built with data streaming as a first-order entity with machine learning and AI capabilities. Virtana Service Observability utilizes machine learning capabilities to help identify anomalies in ITOM-based machine data, and it is architected to leverage the advanced AI capabilities of the Google Cloud Machine Learning Engine.



Google Cloud



The Integration between Virtana and Google Cloud Platform (GCP) enables enterprise IT organizations to monitor hybrid cloud environments leveraging GCP alongside any IT infrastructure an organization may support.

The GCP Integration enables enterprises to monitor the health, status and performance of GCP compute instances and Kubernetes clusters. Virtana can map out the relationships between critical components of GCP projects so customers can instantaneously pinpoint issues when they occur and provide insight into additional affected components and services.

The Google Cloud Platform Integration was developed using the Virtana Integration software development kit (SDK), which can be used to easily extend the functionality of Virtana to any IT resource. The Virtana engineering team and Virtana Community have used this SDK to create hundreds of Integrations supporting a wide variety of hybrid IT resources, driving an unparalleled level of coverage and deep data collection in any multicloud IT environment. Any combination of infrastructure can be easily monitored as a unified whole from a single pane of glass.

### GCP INTEGRATION CAPABILITIES:

Users running the GCP Integration can stay ahead of problems before they occur by monitoring:

- CPUs (instance CPU utilization)
- Disk (throughput, throttled disk throughput, IOPs)
- Network (total network and firewall throughput and packet rate)
- Containers (CPU, disk and memory usage)

Extends Google Cloud environments to other ITOM solutions providing critical data points from anything with an IP Address:

- Hyperconverged
- Public Cloud
- Apps
- Storage
- Private Cloud
- Virtual
- Compute
- Containers
- IoT
- Network
- Microservices
- More!

