



*Driving organisational adoption of DevOps, Cloud and Microservices*

Official Supplier to HM Government for three consecutive years

G-Cloud 9

G-Cloud 10

G-Cloud 11



HM Government  
**G-Cloud**  
Supplier

**INSTANA**



**G-Cloud 11 - Instana Monitoring Software Licenses**



## Simply the Best APM Solution for Microservice Applications

Automatic Visualization and Performance Analysis of Your Full Application Stack.

Automatic Application Performance Management (APM)

Monitor any Application with Instana APM – Monoliths, SOA, Microservice and Kubernetes



### Automatic

Agile continuous deployment practices create constant change. Instana automatically and continuously aligns to every change.



### Fast

Instana delivers actionable information in seconds, not minutes, allowing you to operate at the speed of CI/CD.



### Smart

AI powered APM delivers the intelligent analysis and actionable information required to keep your applications healthy.

The success of your business depends on delivering new, fast, and error free application experiences. Organizations today are rapidly adopting highly dynamic software architectures that utilize cloud platforms, containers, microservices and orchestration tools. Using Instana enables these companies to deploy software faster and scale better to meet demand.

- Instana's Automatic monitoring frees your developers to code for the business instead of coding for monitoring.
- Instana removes the manual monitoring roadblocks that slow down your continuous delivery pipeline.
- Instana automatically analyzes deployments within seconds of release and immediately identifies poor performance or errors.



# nuaware

## Key Features



Automatic discovery and monitoring of full infrastructure and application stack



Every request traced everywhere, 1 second granularity of all metrics



3 seconds to awareness - Identify and fix problems before they cause major impact

## Key Benefits



Always accurate monitoring no matter how often your applications change



High fidelity data ensures you never miss identification of problems or root cause of incidents



Better customer experiences with less revenue loss via faster problem identification and resolution



**Full Stack  
Application  
Visibility**



**AI-Powered  
Predictive Alerting**



**Real-time  
Automatic Root  
Cause Analysis**



**Breadth and  
Depth in Your  
Investigation**



## **Automation and AI**

Any tool trying to monitor dynamic, containerized microservice applications must have AI. The environments are simply too complex to manually manage (or even configure the monitoring tool).

AI requires comprehensive automatic visibility into the full technical stack, coupled with application modeling to deliver automatic root cause determination.

Here are six fundamental skills Stan possesses around Automated Visibility and AI to help manage the performance of dynamic applications



## AUTOMATED VISIBILITY

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### AUTOMATIC, CONTINUOUS DISCOVERY & MAPPING

To apply an AI approach to performance management, the core model and data set must be up-to-date and impeccable, providing real-time visibility and an accurate picture of your application's structure and dependencies – all with no human configuration.



### PRECISE HIGH FIDELITY VISIBILITY

AI requires precise data. For all discovered components, Instana collects the industry's most accurate monitoring data (streamed at 1 second granularity) and every request in a Trace. The data is the source for AI machine training and the basis for the deep microservice visibility.



### CLOUD, CONTAINER & MICROSERVICE NATIVE

Instana is built to operate in the modern world. With zero configuration, Instana aligns with the infrastructure, clouds, containers, orchestrators, middleware and languages to accurately model and visualize dynamic microservice applications – wherever they are running.

## ARTIFICIAL INTELLIGENCE

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### FULL STACK APPLICATION DATA MODEL

The core technology at the heart of Instana is the internal data model, called the Dynamic Graph. The Graph models all physical and logical components, the underlying technologies, dependencies and configuration. The Graph also understands logical components like traces, applications, services, clusters and tablespaces.



### REAL-TIME AI-DRIVEN INCIDENT MONITORING & PREDICTION

Instana aligns alerts with business impacts and can predict impending service outages – using multiple AI methods to understand and predict application behavior. Predictive algorithms are applied to four derived KPIs (Transaction Rate, Error Rate, Latency and Saturation), leveraging the Dynamic Graph model to understand context.



### AI-POWERED PROBLEM RESOLUTION AND TROUBLESHOOTING ASSISTANCE

Instana's AI-assisted troubleshooting leverages full visibility, the Dynamic Graph and AI-driven Incident management. Instana automatically identifies the most likely trigger of an Incident. Reports aggregate metrics, changes, traces and probable root cause on one screen. And predictive analysis identifies performance problems before they happen