

Synthetic Monitoring

Synthetic Monitoring Built for Proactive Enterprises

Quick Summary

In the modern, data-heavy monitoring environment, staying ahead of performance issues is critical for maintaining seamless user experiences along with scalability. Apica Synthetic Monitoring offers enterprises a robust and reliable solution to ensure the uptime and performance of essential assets like websites, applications, APIs, and IoT devices.

The Challenge

Synthetic monitoring is about simulating complex real-user interactions, ensuring comprehensive global coverage to detect regional performance issues, and minimizing false positives to provide reliable data. With the burgeoning data and scalability issues, integrating with existing APM solutions, maintaining data security & compliance, and effectively managing third-party dependency issues are significant hurdles today. Moreover, ensuring consistent performance monitoring and addressing infrastructure scalability to handle large-scale simulations also pose critical challenges.

Major Challenges

- **Data Overload:** Managing and filtering vast data to focus on critical metrics.
- **Real-Time Processing:** Providing timely insights with high processing power.

Key Benefits

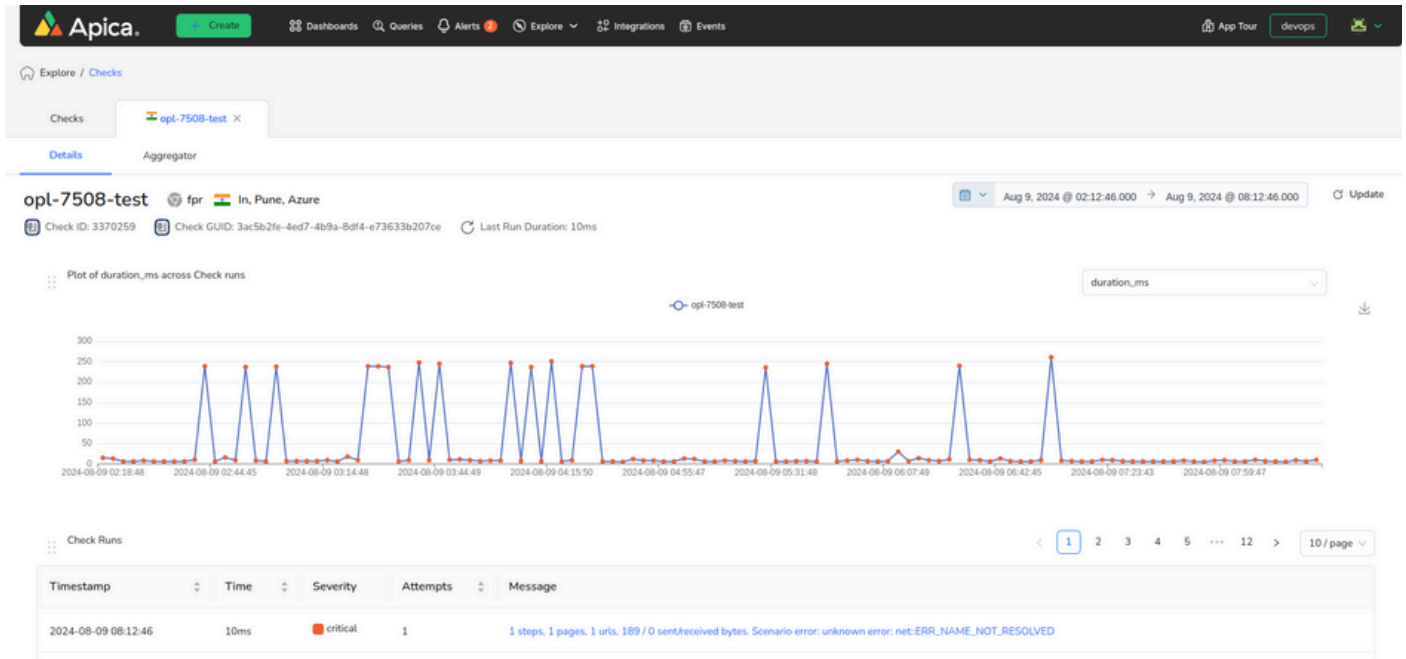
Build complex user journeys that replicate real business functionality without the need for coding.

Catch issues proactively with Application Performance Monitoring (APM) and website performance monitoring.

Meet high-security and availability requirements with scalable Software as a Service (SaaS), along with hybrid and on-premises deployments.

Get SaaS Synthetic Monitoring with public agents, Apica Cloud Orchestration, SaaS dashboard, no installation requirement and Global Network Access.

- **Scalability:** Efficiently scaling to handle growing data volumes.
- **Complex Environments:** Monitoring across diverse and distributed systems.
- **Security:** Ensuring data security and compliance with regulations.



Key Features

Active Monitoring for Better Customer Experiences

Proactively monitor applications and APIs to identify and resolve complex availability and performance issues before they affect end users. Apica's active monitoring prevents slow page loads, network instability, and third-party issues, ensuring accurate results and minimizing false positives.

Hybrid Synthetic Monitoring

Combining the best of SaaS and on-prem solutions, hybrid synthetic monitoring offers all the benefits of SaaS, with private agents and access to your data centers for enhanced security and performance.

Seamless Integration

ASM integrates with leading APM solutions, offering end-to-end insights into application performance.

Drill down to the code level and uncover root causes to maintain optimal performance.

On-Premises Synthetic Monitoring

For businesses with stringent security requirements, on-premises synthetic monitoring keeps all storage local while providing middleware orchestration and a local dashboard.

Enterprise Features

- **Dynamic Thresholds and Alerts:** Set dynamic thresholds and receive alerts via email, SMS, custom webhooks, or integrations with PagerDuty, BigPanda, and ServiceNow.
- **APM Integrations:** ASM integrates seamlessly with any APM solution, providing end-to-end application performance insights and root cause analysis.
- **APIs for Performance Data:** Feed performance data into platforms like Splunk and SumoLogic using our APIs.

Architecture

- Run on any Kubernetes environment, on-premise, or on the public cloud.
- Built with a microservices architecture, and cloud-native principles.
- Scales from a laptop to 100's of nodes.
- 200+ data integrations via standardized protocols, push agents, pull integrations, and custom data collectors.
- Deployment options:
 - Available as a SaaS or self-hosted option.
 - OVA is available for virtualized infrastructure for small-scale deployments.
- Patented InstaStore technology for streaming data into any object storage for long-term retention and reverse ETL.
- Support for push data:
 - Open source agents such as OpenTelemetry, Fluentbit, Fluentd, Logstash, Filebeats, Vector
 - Syslog compatible push clients, Syslog-ng, and Rsyslog
 - Syslog RFC support for RFC3164, RFC5424, RFC5425, RFC 6587.
- Support for pulling data via built-in plugins such as Oracle Integration Pub/Sub, Kafka, and S3 compatible storage, among others.
- Ability to launch custom push/pull data integrations by launching user-created docker microservices in the telemetry pipeline.
- Live tailing of data for telemetry streams.
- Powerful rule engine for building the precise pipeline that meets your data needs.

Product Features

- Test globally from a wide range of locations.
- Real User Experience Insights
- Create custom scripts to test specific scenarios and workflows
- Detailed Reporting and Dashboards.
- Historical Data Analysis
- Alerting and Notifications
- Track Detailed Performance Metrics
- Mobile and Browser Testing

Security and Compliance

- SSO via SAML and LDAP.
- Support for HTTPS and TLS connections.
- Zero-trust architecture for agent management means no host passwords are needed.
- Role-based access control for telemetry data access and management.
- SOC2 Type2 and ISO27001 compliant.

Data Types

We offer over 35 check types, including:

- Browser Checks
- URL Checks
- PING/PORT Checks
- Mobile Checks
- Desktop Checks
- ZebraTester
- And many more specialized options.

Working with Data

- Proactively monitor applications and APIs to address issues before they impact users.
- Prevent slow page loads, network instability, and third-party problems.
- Ensure accurate results and minimize false positives.
- Use hybrid monitoring with private agents and Apica's cloud orchestration for scalable and localized insights.
- Deploy private agents for on-premise monitoring with local middleware and dashboards.
- Set dynamic thresholds for automatic issue detection and receive alerts via email, SMS, custom webhooks, or integrations with PagerDuty, BigPanda, and ServiceNow.
- Integrate performance data with platforms like Splunk and SumoLogic using APIs.
- Seamlessly integrate with any APM solution to obtain end-to-end application performance insights and uncover root causes of issues.

Open-Source Support

- Built-in support for OpenTelemetry collector, Fluent-bit, Telegraf, and other open-source agents.
- Extensible and compatible with a wide range of observability platforms, due to support for open-source protocols and technologies.

OpenTelemetry Support

- Ingest data from OpenTelemetry collector, compatible with OpenTracing for legacy compatibility.
- Both core and contrib OpenTelemetry collector distributions are supported.
- Support for custom collector builds.
- Open Agent Management Protocol (OpAMP) is a core technology for fleet management capabilities.



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Contact us today to schedule a demo. Or reach out to sales@apica.io