

SYNTHETIC MONITORING:

Proactive Digital Experience Validation



CORE CAPABILITIES

Global Synthetic Testing

Continuously execute synthetic tests from a global network of 3,100+ intelligent agents across 100+ countries to validate digital experiences from the locations where users connect.

Application and API Validation

Monitor AI-powered applications, websites, APIs, SaaS applications, and business transactions with extensive test coverage and custom monitoring to validate availability, performance, and functionality.

Internet Stack Visibility

Validate DNS, CDNs, BGP routing, network paths, and first- or third-party services to quickly isolate performance issues across the Internet delivery path beyond owned infrastructure.

Intelligent Analytics and Proactive Alerting

Transform high-granularity monitoring data into actionable insight with AI-powered intelligence, anomaly detection, and proactive alerts that accelerate issue investigation.

Overview

Modern applications rely on an increasingly complex Internet Stack spanning both internal systems and external services. Without proactive validation across that delivery path, issues often go undetected until they affect customers or employees, making them more difficult to isolate and investigate.

Synthetic Monitoring enables proactive digital experience validation by continuously testing websites, APIs, applications, and Internet services before issues impact customers or employees. As part of the LogicMonitor Internet Performance Monitoring (IPM) solution, it provides consistent measurement across the Internet Stack, helping IT teams validate availability, performance, reach, and functionality across distributed environments.

How Synthetic Monitoring Works



Executes Synthetic Tests

Runs scheduled, ad hoc, or real-time tests against websites, APIs, applications, and Internet services from globally distributed monitoring agents.



Measures Availability, Performance, and Reach

Validates uptime, response time, transaction success, functionality, and Internet connectivity across applications, DNS, CDN services, and network routing.



Analyzes Trends and Identifies Anomalies

Correlates Internet Stack performance data using AI-powered analytics, anomaly detection, and long-term data retention to identify likely sources of degradation.



Complements Real User Monitoring

Provides proactive validation that complements real user monitoring by identifying issues before customers or employees experience them.

Where Synthetic Monitoring Delivers the Most Value



Continually Validate Before, During, and After Releases

When deploying updates, validate application availability and functionality before and after release to identify issues early and reduce user-impacting disruptions.



Monitor Digital Experiences Across Regions

When customers and employees access applications from different regions, providers, or network paths, validate performance to identify location-specific issues early.



Protect API and AI Service Reliability

When business-critical applications rely on internal APIs, third-party services, or LLM-powered experiences, monitor availability, responsiveness, and transactions to detect failures before they impact users.



Troubleshoot Internet Dependencies Faster

When performance issues occur, determine whether the source is an application, DNS, CDN, network path, routing issue, or other Internet dependency faster



Proactively test the digital experience from where you host and from where your users live, work, and play.



Track experience scores, downtime, page load performance, Web Vitals, and key events in one view to quickly identify and investigate digital experience issues.

What Sets Synthetic Monitoring Apart



One of the industry's largest intelligent agent networks.



Broad Internet Stack visibility beyond websites and APIs.



Extensive test coverage with infinite custom monitoring and metrics.

Hostinger Drives Results with Synthetic Monitoring

**99.999% UPTIME
ACHIEVED GLOBALLY**

Hostinger uses Synthetic Monitoring to validate website availability, improve performance, and maintain reliable digital experiences. See how Hostinger achieved 99.999% uptime [in the full case study](#).



Detect issues Before Users Do

Proactively validate applications, APIs, and Internet dependencies to detect issues early and improve service reliability.

BE PROACTIVE