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Solution brief
Business observability for AWS

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aws

Highlights

The need

IT teams seek a true understanding of end user digital experiences whether they're delivered on-premises, in the cloud, or via a hybrid environment. Through deeper insight, they can solve issues faster to create greater satisfaction and better business outcomes.

The solution

AppDynamics + ThousandEyes creates complete business observability for apps running on AWS to minimize network and IT troubleshooting, and deliver a first-class digital experience.

Benefits

• Overcome blind spots as applications move to the cloud.

• Understand network impacts to application performance and user experience, even for external dependencies like the Internet.

• Reduce MTTI/MTTR from days/hours to minutes and proactively reduce incidents.

• Link technology performance with business outcomes.

• Migrate applications to AWS 30%+ faster.

Business observability for AWS
AppDynamics + ThousandEyes

The challenge

ITOps teams are accustomed to the struggles of instrumenting visibility of on-premises applications to achieve comprehensive performance insight. Similarly, as services move to the cloud, new types of obscurity impede this understanding. With more businesses adopting hybrid infrastructures, risks emerge that are unique to each environment, challenging the technology and strategies deployed for performance discovery. In concert, technologists are being asked to correlate the business value of IT and assure the digital experience is delivered flawlessly.

Observability with business context for AWS

AppDynamics + ThousandEyes provides end-to-end business observability for applications hosted on Amazon Web Services (AWS). The combined solution complements native monitoring tools to enable businesses using AWS to achieve proactive full-stack visibility. With this insight, infrastructure and network performance can be sized and corresponded with application performance, and ultimately business outcomes.

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See everything

Businesses using AWS can properly understand application dependencies *before* cloud migration, impacts on digital experience *during* migration, and the results of new modes of application delivery like microservices and containers *after* migration. With one comprehensive solution, AppDynamics + ThousandEyes offers the chance to see all parts of the digital experience in context – even for hybrid applications that exist on- and off-cloud, in multi-cloud environments, or where impacts may be the result of the Internet which is outside their control.

ThousandEyes (ThousandEyes is now part of Cisco. CISCO)	APPDYNAMICS part of Cisco
Internet & Multi-Cloud Visibility	**Application Performance Monitoring**
ThousandEyes extends visibility into the Internet, cloud, SaaS networks, and services you don't control to monitor your entire application delivery chain.	AppDynamics provides unrivaled visibility across tools, services, and infrastructure so IT teams can respond to changing business conditions with the proper context, precision, intelligence, and control to move from servicing the business to driving the business.

Internet	DNS/BGP	Path Visibility	Cloud & SaaS	API & Synthetics	App & Code	Server & Data Center	Cloud Native

AppDynamics + ThousandEyes helps fill the operational gaps between SREs, ITOps, and Network Teams, especially as applications move to the cloud. Observability into complex and highly distributed systems dramatically reduces mean time to investigate (MTTI) and mean time to resolution (MTTR), pinpointing internal and external issues with a precision not previously possible. With all teams on the same page and blind spots eliminated, problems can be resolved before impacting the user experience.

Better outcomes

Shape destination architectures in the cloud, on-premises, or within a hybrid environment to fuel innovation and growth and unlock operational efficiencies. Build on end-to-end business observability with "North Star" business metrics, such as orders-per-minute or conversion rates, to assess the impact of performance on the business, revenue generation, brand reputation, and customer loyalty. With AppDynamics + ThousandEyes, the focus shifts from purely technical availability and performance in favor of helping optimize and improve digital business outcomes.

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See all parts of your digital experience delivery

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- Monitor activity and performance across the entire application stack.

- Manage custom applications together with AWS and other hyper-scale providers.

- Ensure application performance management before, during, and after cloud migrations.

- Maintain application availability across all devices and seamless user access to all resources.

- Instill all-important customer brand loyalty that comes with flawless application performance.

- Deliver business performance monitoring and observability for every layer of the technology stack.

- End-to-end visibility of application delivery across any network, including the cloud and the public Internet.

- Pinpoint issues anywhere in the digital service delivery stack from CDN providers to DNS to ISPs, and fix the problem quickly.

- Troubleshoot back-end integrations with Adaptive API monitoring.

- Gain complete visibility including hybrid cloud and multi-cloud environments.

- Correlate application and network performance from user transactions down to Internet routing and device information in one view.

Complete observability

- Manage soaring IT complexity by connecting full-stack observability with business context.

- Real-time visibility and application performance management.

- Pinpoint issues across the entire data center environment, full application stack, and service delivery paths.

- Trace transactions spanning multiple AWS accounts, regions, availability zones and on-premises data centers, including end-user/browser interactions.

- Consolidate monitoring tools to access "one pane of glass" across your environment.

- See end-to-end across both application and network performance.

- Monitor complex applications such as SAP, Java, .NET and custom applications in AWS with confidence, and ensure their performance once there.

- Identify and fix issues before customers are impacted.

- Improve user experience at every level.

- Both AppDynamics and ThousandEyes are available for purchase in AWS Marketplace.

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In action

Migrated 8,400+ hotels to the cloud with confidence. Saw 75% increase in mobile bookings and lowered reservation transaction costs by 40% after migration.

WYNDHAM
HOTELS & RESORTS

In action

Reduced the risk of moving business-critical SAP environment to the cloud. Proactive monitoring ensures aggressive availability targets are sustained to support manufacturing operations and protect business revenues.

Cepheid®

The benefits of AppDynamics + ThousandEyes on AWS

Faster cloud migration
Migrate applications 30+ percent faster by better understanding the application stack before the move to AWS. Holistic understanding helps prioritize what components can migrate and supports decisions on hybrid design.

Justify investments
Harness powerful metrics on digital experience to prove the benefits of workloads in AWS pre- and post-migration. Even build cost analysis models with detailed comparison across alternative cloud environments.

Prove business value
Provide actionable correlations between the quality of customers' experiences with applications and the impact on the bottom line.

Accelerate innovation
Confidently deploy the latest platform and service features faster by baselining and measurement of KPIs according to key performance and business metrics.

Proactive resolution
Reduce MTTI and MTTR from hours and days to minutes to meet your SLA/OLAs, and protect your IT team's reputation. With Path Visualization, view and identify all network paths to perform real-time troubleshooting. Quickly navigate to where there is a packet loss or increased latency problem.

Internet insights
Get a global Internet weather map showing ongoing and historical network outages around the globe. Drill down into the outages impacting you or your customers. See the exact parts of the service provider impacted so you can escalate and negotiate effectively with external teams.

Make better resource decisions
Achieve the insight necessary to make better resource autoscaling, sizing and allocation decisions and optimize performance to deliver the best user experience at the lowest cost.

Simpler administration
A single pane of glass for monitoring workloads deployed on AWS, other public clouds and on-prem. Capture rich health stats of all AWS resources and services interactions with minimal overhead no matter where applications are running. Native extensions for 25+ AWS cloud services provide a rich context around AWS performance.

Get started

To understand more on how to bring comprehensive and proactive visibility into your application experience on AWS, then visit **www.appdynamics.com/network-monitoring-demo** or email **cloudsales@appdynamics.com** to register for a demo.