

# Compuware APM for AWS Cloud Applications



Amazon Web Services (AWS) enables you to focus on what matters most to your business – your applications and end-user experience. As a result, monitoring the performance of your AWS applications becomes critical. While popular AWS services such as RDS, ELB, S3, EMR and DynamoDB enable you to go to market faster, you also lose visibility and add another cost factor to your transaction costs.

Compuware APM supports the dynamic and remote characteristics of AWS clouds with a smart, automatic approach that makes deep, proactive monitoring of AWS-based applications easy. You will know if your application is available to your users, how AWS service performance impacts your end users and applications, which services contribute to the response time and by how much, and the cost structure of your transactions.

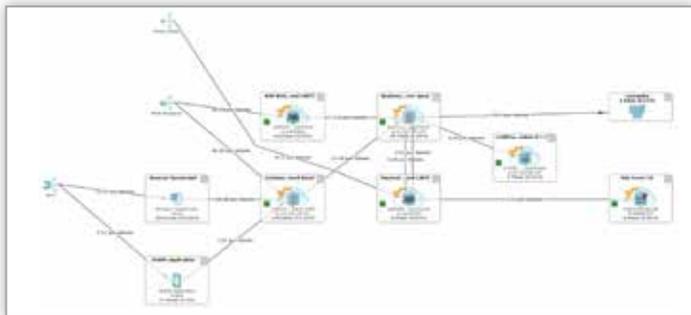


Don't get caught scratching your head wondering what went wrong – turn the lights on and keep them on.

Compuware APM can be deployed easily into your AWS cloud applications via either BYOL (bring your own license) or elastic, consumption-based models.

## OUT-OF-THE BOX VISIBILITY AND MONITORING

- **Holistic real-time topology** of cloud applications with PureStack Technology™ exposes how the cloud infrastructure impacts the performance of critical business applications, transactions and most importantly end-user experience.



See end-to-end transaction flows, auto-discovered, for cloud applications with performance hotspots automatically identified, out of the box

- **Discover and understand changes** of AWS applications easily.
- **Automate performance testing** in the AWS cloud with the confidence of knowing that no performance regressions will be missed.
- **Track cost indicators** and automatically baseline and detect changes in test and build environments.
- **Monitor and manage performance** of cloud-ready databases such as Cassandra and see how it is impacted by EC2's virtualization and how the NoSQL database itself impacts your cloud application.

## MANAGING END USER EXPERIENCE IN AWS

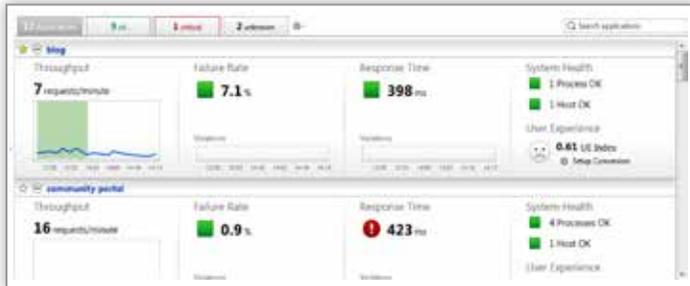
Key user experience challenges include ensuring all end users can access EC2 instances in their geographies, deliver content quickly, know how much time gets lost between the application and the user and by how much do CDNs improve load times. Compuware APM's User Experience Management (UEM) automatically integrates with AWS to provide out-of-the-box visibility and analysis of end-user experience from the browser all the way through the EC2 Instance and to your database



Instantly see if end users are satisfied, tolerating or frustrated

## EASY AUTOMATED DEPLOYMENT

- **Easy, automatic deployment** and monitoring specifically designed for elastic and dynamic applications deployed in AWS. Also, benefit from zero-configuration support for Amazon Elastic MapReduce (Amazon EMR)
- **Automatic detection** of end users, third-party services, clouds and server-side services such as Amazon S3 and Amazon DynamoDB
- **Deploy rapidly** and often with the confidence of detecting regressions early in the development cycle and having the full depth of information in production for fast MTTR



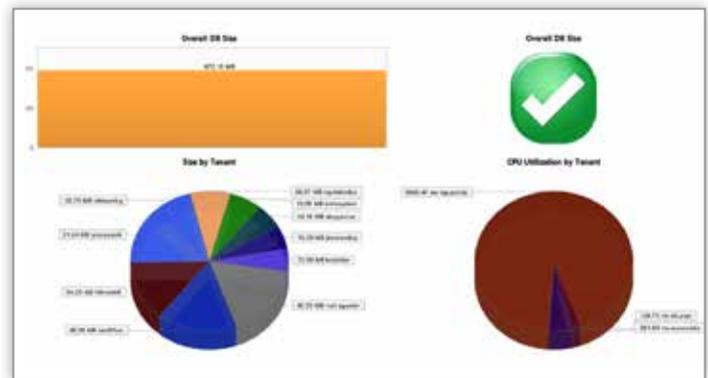
*Behavior-based, self-learning baselines are highly accurate, rapidly alerting you to application errors and potential issues with user experience and response times.*

## ENSURE SLAS AND HEALTH OF BUSINESS TRANSACTIONS

Compuware APM's automatic baselining technology enables you to identify SLA violations with zero configuration. Powered by PureStack Technology, Compuware APM also automatically monitors the health of all your EC2 instances and identifies which Business Transactions are affected by unhealthy nodes. It will help you understand whether elastically scaling your EC2 instances up or down will result in better handling of your load spikes, or if your application has internal scalability problems.

## AUTOMATICALLY SCALE OR SHRINK TO MEET CAPACITY NEEDS

Effectively manage your capacity needs by scaling up or down using automatic transaction-based capacity planning offered by Compuware APM. AWS enables you to easily scale up your environment. Scaling down is much harder because you need to figure out when to remove which instances. Compuware APM traces all business transactions through your environment to effectively understand capacity needs on a per-transaction and per-user level. This allows you to add instances based on transaction-load or user-load patterns and more importantly, downsize it automatically when load goes down. This makes your cloud application more cost effective, while enabling you to fully benefit from the elastic-scaling capabilities of the AWS cloud.



*Monitor AWS resource use to accurately adjust capacity*

## UNDERSTAND APPLICATION PERFORMANCE AND THE IMPACT OF THE AWS INFRASTRUCTURE

Compuware APM's PurePath Technology® enables you to analyze performance of your critical business transactions down to the method level, all the way to your database and storage access logic. Compuware APM's PureStack Technology instantly tells you the impact of the underlying infrastructure on your application performance and end-user experience helping you to quickly prioritize and fix issues. In addition, Compuware APM integrates with AWS CloudWatch enabling you to understand the impact on your response time whether it is EC2 steal time, high latency in the Elastic Load Balancer or an over-utilized Amazon RDS.

## ABOUT COMPUWARE APM

Compuware APM is the leader in a new generation of application performance management. Unlike traditional APM solutions that are heavy, difficult and reactive, Compuware APM is light, smart and proactive. Compuware APM is built to manage the complexity of today's most challenging modern applications including mobile, cloud, Big Data and SOA. Compuware APM optimizes and monitors tens of thousands of applications for more than 4,000 customers, large and small, around the globe. Through the lens of end-user experience, our customers enjoy faster performance, proactive problem resolution, accelerated time-to-market and reduced application management costs through smarter analytics, advanced APM automation and a unique performance lifecycle foundation. Compuware is recognized as a leader in the "Magic Quadrant for Application Performance Monitoring" report.

To learn more about Compuware APM, please visit:

[compuware.com/apm](http://compuware.com/apm)

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