

Infrastructure Monitoring With Amazon CloudWatch and OnPage Integration



About This eBook

Digitalization of business has transformed the world and its industries. Software that upkeep digital initiatives are no longer categorized as a support function. Rather, they are integral to every business process.

To keep businesses running as usual, modern IT teams require infrastructure monitoring tools to detect anomalies and alerting systems to automate remediation processes. Today, Amazon CloudWatch is widely used to detect anomalous behavior in Amazon Web Services (AWS) environments and assist in keeping applications running smoothly.

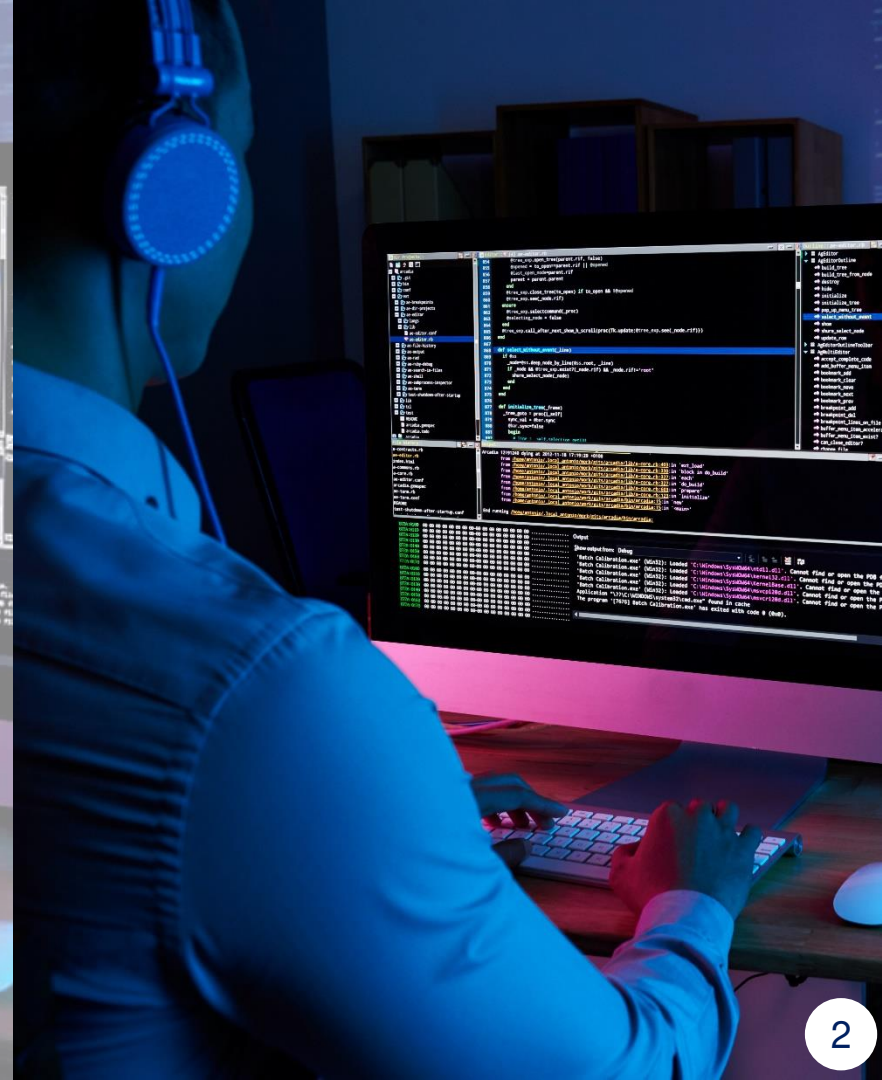
In this eBook, discover how the Amazon CloudWatch and OnPage integration helps IT teams minimize the time taken to respond to issues occurring in AWS cloud environments.

What's DevOps?

Amazon defines DevOps as, “The combination of cultural philosophies, practices, and tools that increases an organization’s ability to deliver applications and services ... at a faster pace than organizations using traditional software development ... processes.”

Unified development and IT operations teams work across the entire application lifecycle including, development, testing and deployment stages. This helps create a fast and more responsive software delivery experience.

DevOps teams use tools to automate processes that were historically manual. They make use of advanced technologies to simplify infrastructure management and application monitoring.



What's Infrastructure and Application Monitoring?

Infrastructure monitoring collects and observes key metrics or logs across the complete technology stack. The “complete stack” usually consists of operating systems, devices and applications. Effective monitoring helps teams act before an issue escalates.

Monitoring tools are designed to maintain scalability and flexibility. They improve system performance and productivity while reducing downtime.

Some of the commonly monitored metrics include EC2 instances on Amazon CloudWatch, CPU loading levels and disk input/output (I/O) operations.





Benefits of Infrastructure Monitoring

Continuous infrastructure monitoring helps improve system performance and productivity. Monitoring maximizes efficiency and prevents downtime by quickly detecting critical cloud activities.

There are few vendors that deliver and provide reliable infrastructure monitoring. Amazon CloudWatch is one of the leading services in this space. CloudWatch continues to help DevOps engineers, IT managers and site reliability engineers (SREs) with AWS-based monitoring.

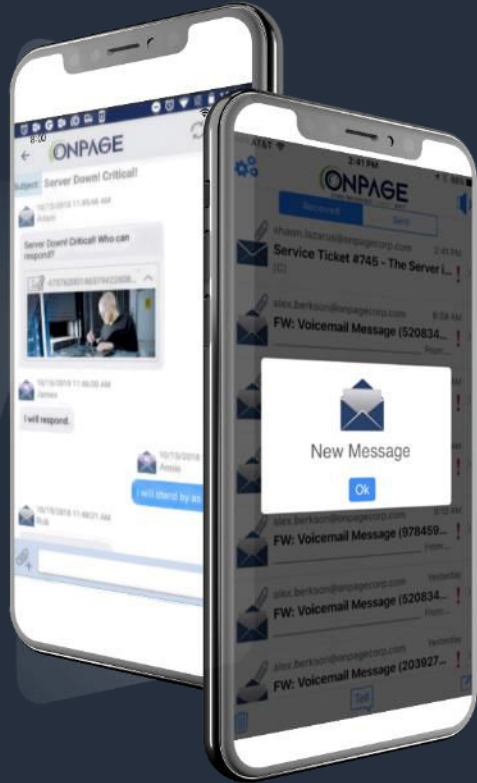
What's Amazon CloudWatch?

According to Amazon, CloudWatch is a, “Monitoring and observability service built for [modern IT teams].” With CloudWatch, teams can set alarms, visualize logs and metrics side by side, take automated actions, troubleshoot issues and gain insight into keeping applications running smoothly.

CloudWatch simplifies AWS-based monitoring. It allows IT teams to set alarms and automate actions based on predefined thresholds or anomaly criteria. Following anomaly detection, CloudWatch, in combination with Amazon Simple Notification Service (SNS), notifies teams of the critical activity.



OnPage's Amazon CloudWatch Integration



An OnPage high-priority, mobile alert is triggered when CloudWatch detects an anomaly.

OnPage notifies the right person using alerting policies, routing rules and on-call schedules. The integration minimizes the time it takes to identify and respond to incidents occurring in AWS resources or applications.

How Does It Work?

The integration works by configuring OnPage as the endpoint in CloudWatch's alerting chain. The process is shown below:

1. All resources in your cloud environment, including the VPC, collect configuration, activity and access logs.
2. AWS CloudWatch pulls the log from AWS resources.
3. (a) These logs are compared against configured Rules and CloudWatch Metrics. When user-defined thresholds are passed, a CloudWatch Alarm (CWA) is triggered. The CWA then composes an alert message that is published (sent) to [Amazon Simple Notification Service](#) (SNS).
3. (b) Logs are also evaluated by CloudWatch Events (CWE), which can trigger remediation via AWS Lambda functions. CWEs can also publish alerts to SNS.
4. SNS sends the message to OnPage's server via an encrypted HTTPS connection, which in turn, sends the message as a high-priority OnPage alert.

Benefits of Using Amazon CloudWatch With OnPage



MTTR

When an alarm goes off, OnPage routes the event to the right person based on routing rules and on-call schedules, thus, improving resolution time.



Audit-trails

With OnPage's powerful real-time audit trails, it is now easy to track all activities throughout the incident lifecycle, and provide actionable insights leading to improved incident resolution.



Real-Time Ops

OnPage enables teams to automate their alert management when Amazon CloudWatch detects anomalous or critical cloud activities.

CONCLUSION



Infrastructure monitoring helps organizations run smoothly. It breaks down data silos to provide more insight into the health and performance of resources. Amazon CloudWatch, the industry's most popular monitoring tool, can be perfected with OnPage critical alerting.

OnPage is a pivotal tool to stay ahead of incidents before they escalate. The system enables on-call DevOps engineers to act in real time.

OnPage provides real-time audit trails and reports to give instant visibility into the incident lifecycle. Managers can get to the bottom of alerts and better analyze the IT team's incident resolution performance.



FREE TRIAL



OnPage's award-winning incident alert management system for IT, MSP and healthcare professionals provides the industry's only ALERT-UNTIL-READ notification capabilities, ensuring that critical messages are never missed. OnPage enables organizations to get the most out of their digital investments, so that sensors, monitoring systems, and people have a reliable way to escalate urgent notifications to the right person immediately.

OnPage's escalation, redundancy, and scheduling features make the system infinitely more reliable and secure than emails, text messages, and phone calls. OnPage shrinks resolution time by automating the notification process, reducing human errors and prioritizing critical messages to ensure fast response times.

Whether to minimize IT infrastructure downtime or to reduce the response time of healthcare providers in life and death situations, organizations trust OnPage for all their secure, HIPAA-compliant, critical notifications needs.

For more information, visit www.onpage.com or contact the company at sales@onpagecorp.com or at (781) 916-0040.