

Monitoring and Observability for Development and DevOps

Module 1 Glossary: Introduction to Monitoring for Applications

Welcome! This alphabetized glossary contains many of the terms in this course. This comprehensive glossary also includes additional industry-recognized terms not used in course videos. These terms are essential for you to recognize when working in the industry, participating in user groups, and participating in other certificate programs.

Term	Definition
Alerting	Responsive component of a monitoring system that performs actions based on changes in metric values.
Application metrics	Focus on units of processing or work that depend on resources like services or applications.
Application Performance Monitoring (APM)	Aggregates and analyzes inbound network data to evaluate the state of the IT environment and identify the root cause of the problem when apps perform sub-optimally.
Business Activity Monitoring (BAM)	These tools take key business performance metrics and track them over time.
Cloud-native	The Cloud Native Computing Foundation (or CNCF) describes cloud-native computing as the process of creating and deploying scalable applications on cloud computing platforms using open source software as well as technologies like containers, microservices, and service mesh.
Dependency monitoring	Allows watching your applications and identify any issues with their performance to give your users the best experience with your application.
Errors	An error could mean a failed request or when a request is completed but with the wrong information.
Evaluations	Assess whether a solution meets the goals identified at the design stage or when the solution was implemented.
Golden Signals	The four most important metrics for measuring the health of your service or systems: Latency, traffic, errors, and saturation. They identify and resolve an issue, provide a focused view into the health of all services, and enable actionable monitoring.
Horizontally scaled infrastructure	Adding additional nodes or machines to your infrastructure to manage new demands.
Host-based metrics	It comprises of the usage or performance of the operating system or hardware.
Hybrid-cloud	Hybrid cloud integrates public cloud services, private cloud services, and on-premises infrastructure and provides orchestration, management, and application portability across all three.
Ideal monitoring systems	Have an independent infrastructure, easy-to-use and reliable systems, maintained historical data, and effective correlation of data from different sources.
Indicators	Anything involved in evaluating the health and performance of an individual machine, disregarding for the moment its application stacks and services.
Integration monitoring	Integration monitoring identifies the availability and uptime performance of third-party integrations.
Latency	Measures the time between when a request is sent and when a request is completed.
Metrics	Metrics represent resource usage or behavior that can be observed and collected throughout your systems.
Monitoring	Allows developers to collect data, measure, and visualize any issues or unexpected events that may occur while an application is running.
Observability	Includes recognizing and understanding patterns between data collected, aggregated information, and resources and values across services.
Real User Monitoring (RUM)	Provides an accurate perspective on how users perceive and respond to applications or service performance.
Saturation	Measures the percentage of use of a system, like how much memory or CPU resources your system utilizes.
Security monitoring	Tracks anomalies and ensures that potential threats are stopped before they are a problem.
Server pool	A collection of two or more servers that are put up to offer end users a uniform set of services and applications.
System monitoring	System monitoring is designed to provide developers with information about the availability of their software. It provides information about system uptime and the performance of applications.
Traffic	In application monitoring, "traffic" refers to how in demand your service is.
Web performance monitoring	Designed to monitor the availability of a web server or service.



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