DevOps Institute
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AIOps Foundation℠

BLUEPRINT

AIOps Practitioners deliver business value to customers through applying artificial intelligence to operations, enabling DevOps and engineering teams to deliver reliable, secure application environments and software systems.

AIOps Foundation

AIOps became relevant in today's IT landscape because of rapid growth in the industry with core technologies including big data and machine learning to collect and aggregate large amounts of data quickly and effectively.

AIOps in the Organization

Embarking on an AIOps journey in an organization allows AIOps to interact and enable other practices and technical domains together in an enterprise IT landscape.

Core Technologies: Data

AIOps relies on core technologies to replace manual processes. AIOps will implement AI to leverage data using numerous sources such as Big Data, Analytics and Machine Learning to create an AIOps solution.

Core Technologies: Machine Learning (ML)

AIOps relies on two core technologies: Big Data to generate important data and Machine Learning for inference, classification and prediction.

BENEFITS

Organization:
Automation, increased reliability, reduced downtime, enhanced abilities, cost effective and minimizes waste for more effective production.

Individuals:
It increases reliability and reduces noise allowing for better collaboration and improved operational capabilities.

AIOps and Operations Metrics

Being able to quantify the reliability, maintainability and performance of a system into absolute metrics is critical to effectively understanding it and improving it.

AIOps Use Cases and Organizational Mindset

AIOps has evolved from conditions such as the maturity of ML and AI, massive increases in data volumes and the ever-growing complexity of today's systems. Adopting AIOps works to solve these issues but imposes a need for shifts as to how teams approach operations.

Evaluating AIOps Impact

Understanding and tracking the performance of an AIOps solution is critical for the solution to produce the desired outcomes, as well as towards continuously improving its value to the organization.

Implementing AIOps in the Organization

Ensure that this strategy is well-documented and is shared and accepted by the various stakeholders that will be involved. Without a clear strategy, with clarity on the desired outcome, is perhaps the number one reason why an AIOps initiative may fail.

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