

What Is AIOps?



Artificial Intelligence for IT Operations. It is advanced analytics including machine learning (ML) and other forms of AI to monitor and manage the performance and

reliability of applications and hardware systems, detect anomalous problems, adapt to changes in requirements, handle failures, and to adjust proactively or rapidly with minimal disruption of services.



The objective is to enable better decision making, issue avoidance, and outage prevention by:

information, and deliver the findings to IT operations. The output includes IT anomalies, patterns, correlations, and predictions.

Rapidly identifying the cause of degradation or failure, and quickly restoring the service



Detecting and predicting failures before they impact users. Driving more actionable insights; adopting a proactive versus reactive

Optimizing teams by aligning people, process, and technology to deliver a



approach

better customer experience

Ensuring the consistent delivery of high performing network and telecom services



How Big Is AlOps?

How Fast Is It Growing?



AIOps is growing at an annual rate of 9.3% and is forecast to reach

\$6.6 billion

in 2026.

Growth is highest in SaaS-based AlOps at 17.5%. Source: IDC WW IT Operations Analytics Software Forecast, 2022-2026, March 2022

AlOps Drivers

and adopt automated operations, they need:

As organizations modernize, transform digitally,

Speed

Organizations must increase their speed to meet rising consumer and business demands for fast restoration of services when

highly reliable services.



Scale

The explosion in scale, the amount of data and resources to be managed (metrics, logs, traces, events, telemetry, others) go





beyond reasonable manual efforts. Automation is required to collect, analyze, and react to the vast data volume and varieties involved, as well as the many simultaneous workloads required.

Flexibility Business services are becoming more distributed and interconnected across networks. Increasingly, this is a multi-infrastructure world (private cloud, hybrid, public cloud, on

prem, multicloud, SaaS, etc.). Modern software and services are often also containerized; cloud-native architectures and complex networks deliver services to consumers and businesses. AlOps platforms have to be able to flex to function in all the places optimization is needed.



IT teams have to manage vast increases in data, applications, and infrastructure as a result of the advent of 5G in telecom and increasing demand for smart sensors, networks, etc.

Business innovators depend on their organization's ability to scale, adapt, transform, and deliver IT services on demand across

analyzed patterns to reduce mean time to detect issues (MTTD) and

physical, virtual, cloud, and multicloud infrastructures. AlOps is vital to effectively operate these complex environments. Automation corrects many minor issues, and increases productivity of IT staff by providing clues, root causes, and

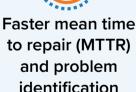


mean time to repair them (MTTR).

What Benefits Are Expected

from AlOps?

satisfaction and productivity containment increased system retention reliability



Improved

customer

Datacenter

operations

optimization



Increased IT

personnel

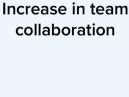
Early fault and

failure detection

Smart hardware

datacenter

intelligence



IT cost

savings and



Root cause

analysis

Telecom network

analysis



Incident

prediction

Energy usage

optimization

Decreased

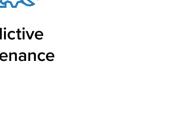
downtime and



Alert noise

reduction









Modern Networks Require Finding and Solving Issues at Machine Speed With cell usage data increasing and IoT and edge data flooding everything, especially 5G networks, an analytics capability that can linearly scale is essential.

Source: IDC WW Internet of Things Forecast, August 2022 Finding root causes of incidents and predicting incidents before they occur is needle in a haystack work that requires every single data point, not aggregates.

84.4 ZB of data was generated in 2021, with 55.8 ZB of that from IoT. Source: Worldwide IDC Global DataSphere IoT Device Installed Base and Data Generated Forecast, 2022-2026

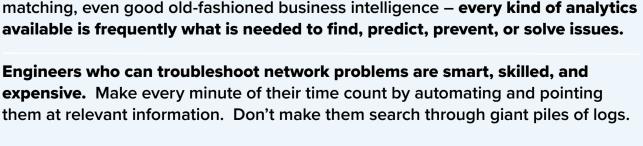
Time series analytics, geospatial analytics, machine learning, event pattern

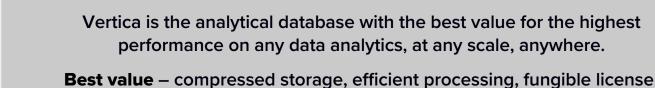
Total IoT spending in 2021 totaled just over \$690 billion.

You can't find the needle if it's been mushed into a clump of hay.

Automated IT Optimization

Is Essential





Any analytics – BI, time series, IoT, geospatial, machine learning

Message from the Sponsor

Any scale – Terabytes to petabytes **Anywhere** – on-prem, clouds, hybrid, containerized

October 2022 | IDC Doc. US49755422 | This infographic was produced by: 🔘 IDC Custom Solutions

© 2021 IDC Research, Inc. IDC materials are licensed for external use, and in no way does the use or publication of IDC research indicate IDC's endorsement of the sponsor's or licensee's products or strategies. Privacy Policy | CCPA