WHY AIOPS IS ESSENTIAL FOR SERVICE EXPERIENCE TRANSFORMATION
The industry term AIOps refers to the practice of applying machine learning and artificial intelligence to automate and improve IT operations. By analysing large amounts of machine and network data, AI and ML algorithms don’t just identify the reasons that caused an existing problem but also predict any future ones.

Understanding the significance of AIOps in business

No matter the size, any organisation requires data to run, course-correct, and grow. Even as several organisations are moving from on-prem and off-prem data centres to hybrid multi cloud environments to run their service, they generate more data than cannot be managed manually. As years go by, the volume of this data will only increase.

As this happens, traditional domain-based IT management solutions will struggle to keep up with the volume of transactions. These solutions won’t be able to correlate the data they receive from different systems and therefore will struggle to provide real-time insights and predictive analysis. IT operations teams that require these analyses to respond to issues or user demands will also then struggle to meet customer service level expectations.

AIOps doesn’t just provide visibility into performance data, it also provides predictive insights to IT operations teams on potential problems, identifying the cause of those problems, recommending solutions, and helping remediation using automation. In doing so, AIOps reduces operational downtime and prevents future disruptions altogether.
Application of AIOps that makes life easy for service providers and service consumers

When one of our clients, a global IT company, migrated over 600 of its applications and their monitoring capabilities from a legacy environment to a private cloud, we deployed an automated monitoring and performance management infrastructure that provided a single pane of glass to understand application performance degradations and bottlenecks with synthetic active monitoring. The company could save 650 manhours per month and enhance overall service quality and user satisfaction.

Similarly, AIOps can be used to build intelligent supply chains. Algorithms built on a cloud platform can seamlessly process massive amounts of data in an incredibly short timeframe to identify potential disruptions to a supply chain and provide alternatives. Advanced AI has the potential to not just predict and prescribe but also act and execute. Think of it as an equivalent of a self-driving car that predicts hurdles on the road and acts on that information by taking an alternate route or a chatbot on a shopping website that not just predicts user queries based on their past browsing experience but also resolves predictable issues like product return or refund status update.

Indeed, the number of AIOps use cases is only restricted by one’s imagination.

Most of us are aware of the tickets that get raised whenever we send out a request to our organisation's IT department. It could be a request to grant access to certain websites that the office firewall has blocked, a request to investigate a laptop issue or any other challenge.

All IT operations, big or small, work on alerts they receive from multiple tools. The teams then manually sift through these alerts and respond to them. This may work well for resolving issues for few devices but not so much when you're managing the operations of a full-fledged manufacturing unit or a commercial organization where every connected asset will continuously send alerts at all times of the day.

AIOps helps address each of these alerts at a much faster rate than humanly possible and brings the following benefits:

1. **The mean time to resolution (MTTR) is reduced:** Simply because AIOps is able to identify and resolve potential issues faster, the MTTR also correspondingly comes down.

   Take the example of one of our European clients, an automobile manufacturer who operates globally with 55,000+ Servers and 40,000+ network devices. Their monitoring systems were spread across 200+ Data Centers with multiple tools to monitor the infrastructure components, complex tools administration processes and lack of a single pane of glass view for Infrastructure Observability. To overcome these challenges, a new Centralized Monitoring Solution was created, applying an AIOps framework which brought several consolidation benefits and one of them was a 30% reduction in the MTTR.

2. **You can go from reactive to predictive maintenance:** AIOps doesn’t just analyse historical data, it continues to learn in real time. We helped a healthcare company create a custom Network Operating Centre to monitor the health of its applications, reducing manual efforts by 40%. The alerts helped customers pick up real-time issues as they occurred.

3. **Reduces human effort:** AIOps automates a lot of the IT operations processes and sends out only those alerts that cross a certain service level threshold. This doesn't just reduce human effort but also empowers IT operations teams to take on a more strategic role in the running of a business.

As operations get more complex, the amount of data will continue to increase exponentially. And it will get increasingly difficult for traditional IT management solutions to keep track, read, and correlate these amounts of data for efficient running of operations. AIOps solutions offer enhanced visibility and observability, while facilitating better collaboration and actionability to enhance IT operations.
About the Author

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Arvind possesses diverse experience in design and implementation of large, IT service management and infrastructure transformation programs. A winner of international IT service management leadership award, he is an expert in strategy definition and execution, practice management, talent management, thought leadership and innovation.