INSTANA
an IBM Company

How Automation and Enterprise Observability Power Application Performance

The assessment you've just completed helps to pinpoint an enterprise's strengths, opportunities for improvement and operational priorities. The following three steps pave a roadmap that can accelerate your digital transformation journey, which is influenced by the performance of your applications.

1 Know why automated observability is critical for modern, cloud-native application monitoring.

The ultimate goal of digital transformation is to provide your customers with a smooth, fast and reliable experience.

Maximum flexibility, faster deployments and better-quality software require an expedited release frequency and a development team that's free to pick the best language for each task. If you're not updating your production software frequently, you end up spending more time on QA / regression testing than actual coding. By allowing your developers to pick the best programming languages, you're driving smoother update deployments, getting new functionality faster and creating a happier development team and, ultimately, happier customers.

Additionally, a fully utilized cloud-based dev environment is one of the greatest tools in your arsenal. Running monolithic applications on-premise or on a private cloud decreases flexibility and responsiveness, putting you at a disadvantage against competitors who are making use of cloud-based applications.

Leveraging hybrid cloud is another big step toward true app modernization, but real efficiency gains in transformation occur with multicloud architecture, enabling developers to cherry-pick the best public cloud for specific workloads.

Automation is another key ingredient to ensuring application performance. Foregoing automation in favor of manual processes is inefficient and creates the risk of human error. Though any process automation is better than none, if you're not automating performance monitoring and observability, you're probably dealing with an unnecessary process bottleneck that is getting in the way of app production and updates.

2 Understand why enterprise observability is vital to infrastructure and application performance.

Organizations have vast amounts of data but often lack the tools, employees or time to manage it. The success of today's digital businesses depends on the performance and availability of critical business applications, while efficiently operating the application infrastructure.

As you move from traditional application architecture to one on cloud technology, you need full visibility because of the explosion of microservices that constantly change. And because they're loosely coupled by design, it's difficult to know about their inter-dependencies. The bottom line is that traditional monitoring tools are manual and don't do enough.

Enterprise observability empowers you to understand the context of what's being observed and take intelligent actions. With the most complete data set and full contextual correlation, Instana is the easiest way to optimize your systems.

Using a solution like IBM Observability by Instana APM allows you to easily handle the complexities of today's modern application environments. With fully automated application observability, Instana delivers the context needed to take intelligent actions and deliver optimum application performance.

Read:

What is observability?

What is application performance management (APM)?

Watch:

Observability vs. APM Monitoring

3 Realize the benefits of combining application performance management (APM) with application resource management (ARM) solutions.

As you move towards an AIOps driven approach, it's important to understand how the combination of APM and ARM solutions can simplify IT operations. Packaging APM with ARM solutions simplifies IT operations. ARM systems can automate decisions informed by not only infrastructure awareness but also

application metrics drawn from the APM system. Integrating the two allows you to take full advantage of your cloud environment without overprovisioning, helping you reduce operational costs while boosting productivity.

By combining Instana with Turbonomic for IBM Cloud ® Paks, you get full stack observability, analytics and self-driving resource management through automatable application-driven resourcing decisions across multicloud and cloud native environments.

Summary

There are many opportunities within digital transformation, but strategically putting your time and resources where they're needed most represents the biggest opportunity of all. Enterprise observability is crucial to ensure faster development, deployment and updates for your apps and a positive experience for your customers.

Instana offers powerful observability functionality to help move your business forward, regardless of where you are on your modernization journey.

Next steps

- Read the smartpaper: Assure application performance with AIOps
- Read the report: "The Total Economic Impact™ of IBM Cloud Pak for Watson AIOps with Instana."
- Connect with IBM: Talk to an expert.