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For the cloud, of the cloud, by the cloud. **8 cloud-native app development trends to look out for in 2023**

As the world has fast-tracked to the cloud, organizations have significantly shifted the focus to cloud-native app development. More than **75% of organizations** are already focusing on cloud-native app development. This will likely increase further as Gartner estimates that **95% of the new digital workloads** will be deployed in the cloud within the next 3 years.

What will drive and shape this enormous paradigm shift? Here is a quick look at the trends that will likely shape the cloud-native app development space in 2023 (and possibly beyond!).

1. Containerization will be the backbone

Many cloud-native apps will be required for deployment across multiple domains. Even some legacy apps will need to be rebuilt as cloud-native apps in some cases. Naturally, they will need to have all their dependencies moved to a cloud environment as well. That's why containerization will be a crucial dev focus, with 70% of organizations turning to containerized applications in 2023. Kubernetes, AWS Fargate, and Docker will form a popular orchestration system used with containerized applications. The global container market in 2023, as per a report by **Markets and Markets**, is expected to be valued at \$4.98 billion USD, up from \$1.2 billion USD in 2018.

2. Low-code, no-code will become pervasive

As app development democratizes, the go-to-market lifecycle drastically reduces, and you need apps for virtually anything and everything. Taking the low-code and no-code routes is inevitable. Low-code, no-code might see its threshold year in 2023, especially with many non-developers coming to the development folds. A report by **Straits Research** states a CAGR of 27.8% in the global low-code platform market from 2020 to 2030.

3. DevSecOps will become increasingly important

Speed and security are the keys to cloud-native app development, and DevSecOps helps in both. DevSecOps helps developers build cloud apps faster, securely, and seamlessly by bringing in an inbuilt security layer and automating various testing tasks. This market is set to grow at a **CAGR** of 32.2% until 2028.



4. Microservices architecture will flourish

Microservice architectures are the cloud-native app developer's best friend. They help in simplifying product development as well as making services independent. However, too many of them can create a new set of complexities. 2023 will likely see a focus on streamlining microservices architectures through a mix of best practices and new tech. In an industry report published by **Market Growth Reports**, the global cloud microservices market is expected to grow at a CAGR of 12.7% between 2022 and 2028, which amounts to USD 1718.2 million.

5. Serverless computing will evolve further

As scalability and cost-optimization become the prime focus for organizations, serverless computing will continue to be adopted for cloud-native apps. Organizations will look to offload their app-related complexities to the serverless computing space, allowing developers to focus on building, deploying, and managing the apps instead. The global serverless computing market is projected to grow at a **CAGR** of 22.2% between 2022 and 2027.

6. Building cloud-native architecture

Building cloud-native app architecture heralds a fundamental shift in app development. Of course, different apps will be developed differently, but they will have the following certain fundamental elements built into them that will mark them away from on-prem apps. These apps will be centered around APIs for interaction and collaboration, be inherently scalable, and have resiliency as an in-built feature. These trends are already there but might see a spike in 2023. A research by **Gartner** predicts that 85% of organizations will adopt a cloud-first strategy by the same year.

7. Growing with the hyperscalers

A report based on the study of the global hyperscale cloud market by **Research And Markets** indicates the value going up from \$191.15 USD billion in 2021 to \$693.49 USD billion by 2026. Hyperscalers have started to evolve beyond their original roles - that of largely providing infrastructure services to organizations. **Hyperscalers are adding both technical and industry-specific solutions.** Some cloud-native apps are starting to take advantage of these solutions - both from development and scalability/performance point-of-views.

8. Skill and mindset. The waterfall is fading, the loop is forming

Finally, the human element. Cloud-native app development is fundamentally different from the traditional, on-prem approach. The old-school approach of build, test, and production in a linear and waterfall model is sunsetting as it can barely keep up with the accelerated demand for high-speed development. DevOps will thus increasingly start to emerge as a school of thought designed for real-time collaboration, breaking the silos, and eventually fast-tracking production.

Where do we go from here?

Cloud-native app development is poised for immense growth, and organizations globally are looking for both skilled workforces and innovative solutions to fast-track their cloud-native app development programs. That's where we can help with our range of comprehensive cloud-native offerings! Take a look now and leverage our services.



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