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DevOps - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

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Report description:

The global DevOps market was valued at USD 10.74 billion in the current year. It is expected to reach USD 29.43 billion by the end of the forecasted year, registering a CAGR of 22.34% during the forecast period.

Key Highlights
-The increasing need for efficient and maintained operational processes and rising adoption of cloud computing coupled with PaaS lowered downtime in software development life cycles are pushing the growth of the DevOps Market. Different firms across the globe are focusing on decreasing the time and maintenance of the software development operation process. DevOps enables improved collaboration and synchronization among developers and reduces the maintenance of the constant development process.
-MLOps and AIOps are two of the renowned trending DevOps tools. Essential to optimize the DevOps processes to reap the benefits of high-quality and quick developments where MLOps and AIOps are important role players. AIOps enable automates IT processes and operations, whereas MLOps maintains the development system of machine learning. This is one of the widely used DevOps future trends, which has also been incorporated into a platform named DRYiCE IntelliOps, developed by HCL. As a solution that manages the full stack AIOps of the firms and its observability requirements, it specializes in converting the customers of HCL from reactive to proactive.
-The low-code approach enables agility, providing every firm with a competitive edge in the demanding and fast-paced software market. Low-code platforms enable businesses and enterprises to build applications without export coding knowledge. This allows non-technical professionals to also have a hand in creating software via a visual interface that entirely manages the app development process. It enables users to build their logic and workflow by dragging and dropping elements. This is one of the well-known DevOps trends that has enabled speed up the development and deployment process just by creating simplistic and user-friendly applications.

-Further, GitLab surveyed 5,001 technology managers and professionals and found a significant boost in DevOps practices over just the past 12 months. In 2022, a sizeable slice of respondents (47%) suggested DevOps or DevSecOps was their methodology of preference, a five percentage point increase over 2021. The survey shows that this rise in DevOps comes with an improved cadence in software delivery. 7 in 10 DevOps teams (70%) introduced code continuously, described as once a day or every few days, up 63 percent from last year. At least 60 percent of developers are developing code faster than before. A complete 35% said they are developing code twice as fast, while 15% release code between three and five times faster.
-One of the most common problems with DevOps is the challenge of holistically monitoring the entire process. DevOps consists of several moving parts, each with different metrics to judge their effectiveness. For example, a metric like the number of deployment frequency or code branches might deal with the CI/CD approach. Further, something like Defect Escape Rate is a component of the Continuous Testing pipeline. Often there needs to be clearer visibility over the entire process, leading to finger-pointing and production delays. Any manual processes made to envisage this lead to extensive labor and risks incorrect updates due to human error.
-Considering that most DevOps teams are now working from home due to the COVID pandemic, according to a survey of 500 IT and engineering professionals from the software and finance industries conducted during the pandemic and published by the software company Harness during the pandemic. Only 43% of developers responded to the survey's question about the development pace increasing since COVID-19, but slightly over half (52%) claimed the pandemic has made them happy in their jobs.

DevOps Market Trends

BFSI is Expected to Hold a Significant Share of the Market

- DevOps allows financial institutions to meet and even surpass new customer expectations. This method increases financial institutions' chances of successfully delivering value to customers while reducing risks and expenses.
- As a result, many banks, financial services providers, and Fintechs are working to modernize outdated banking systems. DevOps is the new mechanism for driving digital change, consisting of activities, tools, and methodologies. Effective governance, security, risk, and compliance policies may be implemented with DevOps approaches, which can improve the quality of application releases.
- Further, Numerous agreements and investments are processed daily in the banking and financial services industry. As a result, it is essential to protect sensitive information and adhere to a wide range of data security and privacy standards. Automation of software lifecycle pipelines is aided by the widespread use of established practices like infrastructure as code and continuous integration and deployment (CI/CD). Automation should be used whenever possible to guarantee flawless software delivery free of human mistakes. Best practices advocated by DevOps, such as more thorough documentation of the development and testing phases, protocols for ensuring regulatory compliance, and explicit frameworks for application governance, risk management, and security, all contribute to a higher level of protection.
- Moreover, the personal and financial data accumulated by financial services businesses makes them an immediate target for cyber attacks. Thus, financial services organizations face constant pressure to boost their cyber security and speed up their software releases. Additionally, financial services are one of the most regulated sectors globally.
- These are just a few reasons why implementing DevSecOps is imperative for the finance sector. DevSecOps is the end-to-end collaboration of security, development, and functions teams throughout the software development lifecycle. It also includes automating their tasks, resulting in the frequent and secure release of software that empowers digital businesses.
- The players in the market are expanding their products to cater to a wide range of needs of financial institutions. For instance, in April 2023, Following the acquisition of Chicago-based BreakFree Solutions by ThoughtFocus, Inc., the company recently announced new services that help banking and financial services clients implement and scale strategic digital initiatives through a marriage of agile and DevOps frameworks.

- ThoughtFocus, through its expertise in product development, cloud enablement, DevOps platform engineering, digital security, infrastructure as code (IaC), and automation, has a demonstrated track record of helping on-prem financial services organizations behave like cloud-native DevOps teams with new skills, processes, and tools.
- DevOps as a methodology enables capital markets teams to make better, more informed decisions about each enhancement or addition and find their balance between trading and software development risk. According to the World Federation of Exchanges, In 2022, approximately nine billion contracts for single stock options were traded worldwide. Such huge trade of options would push financial institutions to deploy DevOps for better functioning and provide better services to its customer.

North America is Expected to Hold Significant Share of the Market

- North America is a developed market, owing to several market players working toward easing the continuous integration capabilities of firms. Bulk data integration methods and tools are currently most efficiently implemented to identify data synchronization patterns in critical end users such as retail, banking, financial service, and insurance (BFSI), or government initiatives. The general trend has favored adopting continuous integration (CI) infrastructure to advance DevOps and streamline operations.
- A notable consideration of early adopters has been that if a task is driven by shared infrastructure, the regulation must consequently be publicly available and deployed occasionally throughout the development and deployment process, ensuring access of the code to quality assurance and security audits by the public, and additional relevant third parties, allowing for rapid development and fixing process.
- Further, disparate toolchains and manual tasks that make bottlenecks in the software development lifecycle compromise Develop and Operation teams' ability to introduce software faster and with less risk. With the Dynatrace cloud automation tool and integrations, plus an ecosystem of best-in-breed DevSecOps members, teams get deep and expansive observability, run-time application security, and advanced AIOps to automate toolchains for remediation and delivery. While digital transformation initiatives have evident advantages for businesses, they also bring growing complexity to technology and digital services teams. The need for orchestration and automation across the software development lifecycle (SDLC) has increased.
- The regional players are collaborating to provide better services to its customer. For instance, in September 2022, Dell announced expanding its partnership with leading open-source software products provider Red Hat to facilitate deploying and managing on-premises, containerized infrastructure in multi-cloud environments. Powered by Intel, this collaboration streamlines and provides configurative direction for deploying and managing on-premises infrastructure for container orchestration while enabling DevOps productivity. Customers can scale IT agility by quickly getting their on-premises infrastructure running while predictably utilizing a Red Hat OpenShift environment on Dell inc PowerFlex software-defined infrastructure.
- Similarly, in March 2023, Canadian information management software provider OpenText introduced the latest version of ValueEdge, a cloud-based DevOps and value stream management (VSM) platform. This announcement comes after OpenText acquired UK software giant Micro Focus, which included ValueEdge, in a USD 6 billion all-cash transaction earlier this year. Powered by ValueEdge Strategy and ValueEdge Agile, this will allow the continuous planning process required in today's agile development organizations. It also features portfolio management and visualization, investment prioritization capabilities, and integration into agile management.
- Many robust enterprises in the region have adopted a low-code DevOps approach which has been quite beneficial for teams. For instance, in May 2023, ProcessMaker, a low-code business process automation software company, announced the release of its Spring 2023 Platform. ProcessMaker artificial intelligence (AI), a decision engine, process templates, dependent choose lists, modeler usability improvements, dynamic menu enhancements, autosave, and other features are included in this release. The decision engine uses intelligent decision tables as a stand-alone asset to automate complex business processes without requiring code.

DevOps Industry Overview

The global DevOps market is moderately consolidated with the presence of several players like Google LLC, Microsoft Corporation, IBM Corporation, Oracle Corporation, Amazon Web Services, Inc., etc. The companies continuously invest in strategic partnerships and product developments to gain substantial market share. Some of the recent developments in the market are:

In July 2023, Appdome, the mobile app economy's one-stop shop for mobile app defense, announced it had integrated its Cyber Defense Automation Platform with a cloud-based service from Microsoft Azure DevOps that provides continuous integration and continuous delivery (CI/CD) capabilities, allowing teams to automate the build, test, and deployment of their applications. Azure DevOps is now part of the Appdome Dev2Cyber Agility Partner Initiative to advance the delivery of secure mobile apps globally. With this new integration, Azure Pipelines users can leverage Appdome's configuration-as-code easily from inside Azure Pipelines and build any of Appdome's security, anti-fraud, anti-malware, anti-cheat, and other cyber defenses into Android and iOS apps.

In April 2023, the newest version of Digital.ai's artificial intelligence (AI)-powered DevOps product platform, Corbett, was introduced to help businesses create applications with improved user experiences while boosting software development teams' efficiency. According to the company, Corbett has improved intelligence capabilities that allow teams and organizations, not just individuals, to harness AI's power to produce better software. Read more about Digital.ai unveiling the latest version of the AI-enhanced DevOps product. From development through to production, Digital.ai now centralizes and integrates data from more sources, including AI-enhanced DevOps products and third-party software tools, so teams can avoid siloed reports and analytics and utilize the power of AI to make predictions about potential outcomes based on past performance.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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