

# DevOps Current Trends: Tighter Alignment Between Development and Operations

## Background:

DevOps is the process that is bridging the gap between development and operations team in organizations. Today's fast paced technology and business development is limited by the traditional software delivery approach. Business, people and process are driven by information that is siloed in different systems across the organization. There is a distinct gap between the development and operations team on how they can utilize this information for faster delivery process.

DevOps allow several changes and innovations to be introduced across the organization, by ensuring close collaboration between developers and operations team throughout the software development lifecycle. It ensures delivery of quality product or services, frequent deployment, reduce time to market, and even predict DevOps market changes. There is continuous testing and validation of the software, product or service.

DevOps industry trends can benefit a company's product lifecycle, its competitive advantage, and its ability to quickly meet customer needs. It is still in its early phase, as companies need to make a significant shift in how they work and what tools they need to use for product improvement.

Before adopting DevOps market and industry trends across organizations, four key steps to focus on:

- **Asses the DevOps strategy:** Prioritize short, midsize, and long-term projects that drives the DevOps business and challenges faced by them. Examine critical DevOps areas, success factors and best practices that align with the business goals.
- **DevOps maturity process:** Determine the key stakeholders in your business, development, and operations areas, have a communication plan ready for them. Identify the app development methodologies and the IT processes that are most important.
- **Implement the DevOps changes:** Plan and implement the changes to deliver accelerated development, build automation, easy installation, deployment, testing, maintenance and feedback.
- **Monitor and measure progress:** Update the DevOps plan based on results and business metrics. Identify improvement areas and plan for the next phase of DevOps.

Successful adoption of DevOps across organizations are steadily increasing through a more streamlined approach by both SMB and enterprises.

Current industry trends that are driving DevOps adoption across the industries:

## ***Trend #1: DevOps increases modular approach to system building***

The traditional method to IT development was to build massive products for the clients in one software development life cycle. But, the best practice now is to create small and agile teams to develop individual applications. This allow companies to deliver faster and reliable applications that drive future growth.

## ***Trend #2: DevOps enable further advances in programmable infrastructure***

DevOps process makes open source programming and infrastructure provisioning more accessible and seamless. Companies will prioritize automation and software based methods for agile development, and integrate it in their initial development planning phase.

## ***Trend #3: Developers own the Product lifecycle***

The development team is involved throughout the entire product lifecycle. As DevOps tools allow continuous delivery and improvement; developers are more accountable and share ownership of the software and solutions. This reduces the traditional silos between operations and developers.

## ***Trend #4: DevOps reduces deployment time to production***

As SDLC methodologies shift from traditional waterfall to agile development, the time to deploy a feature to production is reduced using DevOps process. The systems will be more risk tolerant and any changes to it will have less negative impact. The time to production is reduced from weeks or days to hours.

## ***Trend #5: DevOps reduces the role of operations***

The role of operations will reduce over time as companies start looking at investing into their legacy systems. The time to change the technology stack or switch from monolithic architecture of the traditional systems to a more agile architecture, is now taking days instead of months or years.

## ***Trend #6: Container and Docker adoption is maturing***

DevOps tools like Chef and Puppet are still popular while Docker and Container services are maturing across enterprises and SMBs. Organizations are not using a single DevOps tool, but a mix of configuration tools that's feasible for their business requirements.

## ***Trend #7: Agile is the buzzword for DevOps***

Agility in the development process is about delivering product or services on time without compromising on the process or quality. Many operations such as automation and following standard processes allow businesses to boost the DevOps procedure without losing control, operational efficiency or quality services.

## ***Trend #8: DevSecOps – Adding security to the DevOps process***

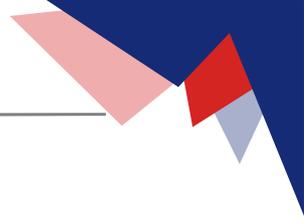
Cloud development and Agile processes have shifted the traditional security perception in organizations. DevSecOps is the current trend where security is implemented in all stages of the development process right from concept, design, implementation, deployment and maintenance.

## ***Trend #9: Automation is the foundation for DevOps***

Software development is now happening in the Cloud while operations is on-premises. Automating scripts for infrastructure provisioning and maintenance is a concern as they don't usually run on multiple environments. The trend is now to create cloud agnostic scripts that can be deployed in any environment.

## ***Trend #10: Senior thought leaders will drive DevOps adoption***

Successful adoption of DevOps is possible with the involvement of senior thought leaders and business heads. Any DevOps industry trends or changes across the organization requires setting specific and realistic goals for the smooth transformation and transition. Changes related to DevOps should be effectively communicated across the organization.



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### ***Helpful TIPS for successful DevOps:***

- Breakdown activities into bite-sized chunks, have a modular approach and a clear plan
- Automation is the key and integrate it as part of the initial development phase
- Keep developers involved in the entire SDLC process, communicate effectively and provide complete visibility of the project
- Time to market of the product or feature is one metric to measure the success of DevOps
- Begin with small projects and once you gain expertise in managing them, move on to bigger ones

For more information on how GAVS can help solve your business problems, write to [inquiry@gavstech.com](mailto:inquiry@gavstech.com)