Application Platform as a Service (aPaaS)
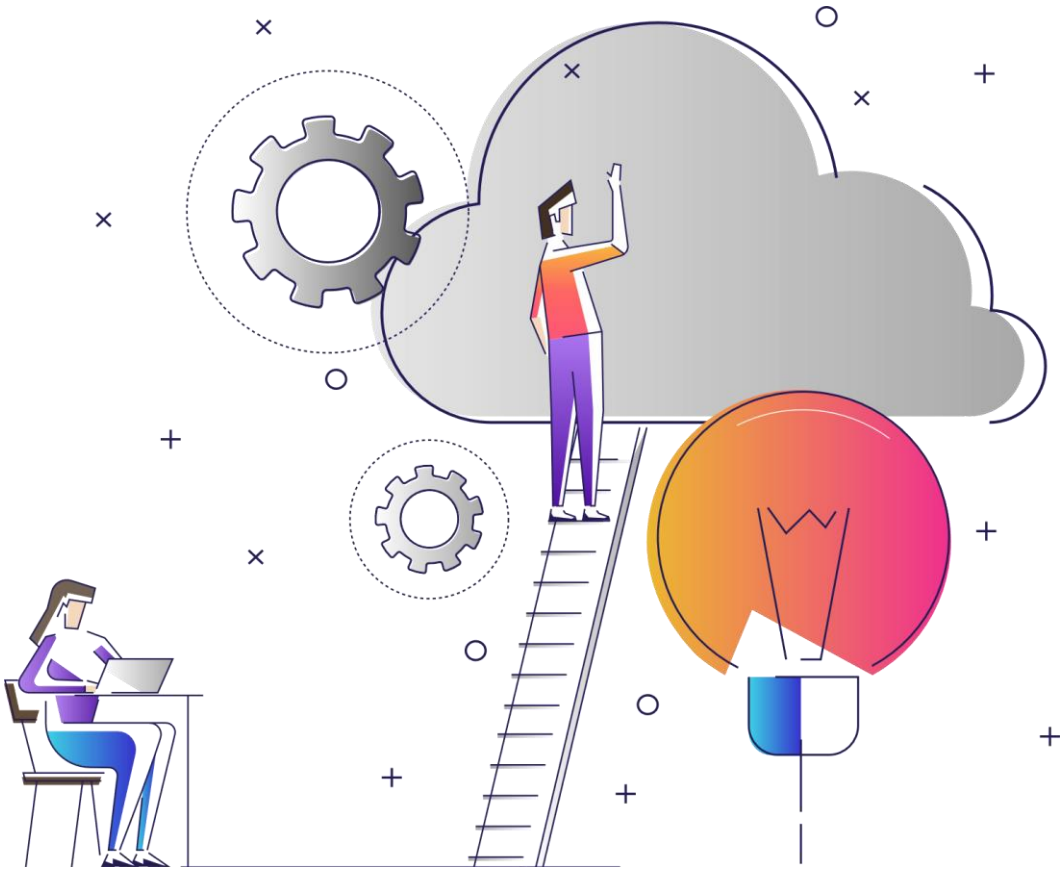

transformify

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What is application-Platform-as-a-Service?

A cloud environment that allows you to design, build, deploy, and manage custom business web solutions is known as an application platform as a service. It's a single platform that enables speed, collaboration, and control throughout the entire solution lifecycle.

aPaaS is an acronym for application platform as a service. It's quite common in the world of cloud computing to add "as a service" to technology that was once installed on-premises. The three most popular are a Software as a Service (SaaS), Platform as a Service (PaaS), or Infrastructure as a Service (IaaS). This is similar to how Netflix subscriptions allows you access to streaming videos without the need to download them or install any software.
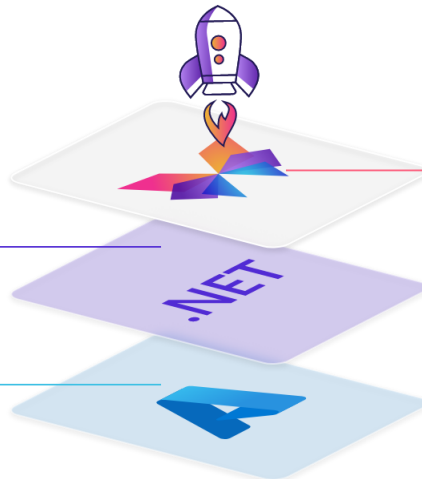
Independent analyst firms and industry professionals have created their own definitions of cloud computing services over the past years. Examples of such segments include iPaaS (integration platform as a service) and IT as a service (ITaaS). Gartner, however, coined the term Application platform as a service, and defined it as cloud service that offers rapid development and deployment environments for application services".

In its core, aPaaS, represent type of cloud computing service, which allows you to develop, run, and manage applications without having to build and maintain the infrastructure (like hardware, operating systems, storage, or network capacity) that is required for developing and launching apps

Although many platform-as-a-service providers make it easier to deploy and provision apps, they don't address the slowness of creating apps. The best aPaaS also addresses and provides abstraction and automation throughout the entire application lifecycle, making it easier to create apps.

Our service explained easy as 1, 2, 3

YOUR SOFTWARE/SAAS SOLUTION

TRANSFORMIFY

Our platform with complete state-of-the-art business and technology (BizDevOps) stack to develop and deliver complete software solutions or SaaS business.

AMAZING .NET FRAMEWORK

We are utilizing the best general and cross-platform application framework in the world and the powerful C# programming language as our foundation.

AZURE CLOUD SERVICES

We span our cloud native infrastructure between various cloud native resources and many data centers in the world to bring unlimited cloud capacity, data residency and the best privacy and security compliance in the cloud industry.

Benefits of aPaaS

The greatest benefit of aPaaS?
It's the **rapid speed** of building and delivering apps. Visual IDEs, abstraction, and automation make it easier to develop, provision and deploy apps. In this way, a traditional period for app development of several months and years is reduced to only a few weeks.

A comprehensive aPaaS offers No-Code and Low-Code approach that enables developers with limited to no experience to be involved in creating solutions. Professional developers can then bypass "boring for them" simple, repetitive tasks, code business logic and focus on solving more complex engineering challenges. More enterprises lately create interdisciplinary teams consisting of IT and non-IT employees, who deliver continuous and rapid process improvements from the cloud in order to provide a better customer experience, operational excellence, and digital transformation.

Another key benefit of cloud services is their ability to scale. On-premises infrastructure can make it difficult and limits businesses to grow and change. aPaaS is a solution to these problems due to nature of cloud native technologies which allow growth of your business to meet all your ongoing development needs.

Low-Code Application Platform as a Service? Hmm..

Low-code application development is development approach or a method, rather than a service. It is characterized by a visual IDE, one-click deployment, enables rapid delivery of applications and with minimal hand-coding. To be honest, there are on-premises installations of low-code platforms, but contemporary ones are all available from the cloud, thus making them true aPaaS.

So, what Forrester and Gartner say about the buzzwords like aPaaS, hpaPaas or LCAP?

In 2014, Forrester invented the term "Low-Code" but did not bring up cloud or service as a requisite.

Two years later, Gartner segmented its **aPaaS** category into one called high-productivity application platform as a service (**hpaPaaS**) and put all platforms in that segment which Forrester had previously identified as Low-Code, and they untill then, as aPaaS.

Their thoughts on this was that aPaaS offered true rapid application development and high productivity, which innevitably leads Low-Code to a split from aPaaS. Gartner's explanation to this is that Low-Code platforms offered as services were indeed aPaaS, but a different kind.

Gartner has added a new category to its portfolio in 2019, Low-Code Application Platform (**LCAP**) defining it as supporting "rapid application development, one-step deployment, execution and management using declarative, high-level programming abstractions, such as model-driven and metadata-based programming languages" and "the development of user interfaces, business logic and data services, and improve productivity."

In addition, read the Gartner Magic Quadrant for Enterprise Low-Code Application Platforms.

The Role of aPaaS in DevOps

As we saw at the beggining, PaaS provides flexibility to deploy an application without an overhead of management of resources. Resource management is the responsibility of cloud service providers. Cloud service providers manage servers, operating systems, networks, or storage. They also manage load balancing, scalability, and monitoring of resources. Simply put, aPaaS platforms are built on top of cloud service provider and provide their services in accordance with the limitless infrastructure capabilities of the cloud.

Today, aPaaS is driving toward continuous improvements and continuous innovations. It drives for rapid application development and rapid application delivery. Contemporary aPaaS is flexible, allows dynamic and predictive capacity scaling. Provides logical environment isolation for each app with integrated DevOps practices and smooth transitioning between development, testing and production environments.

So, What is DevOps lifecycle?

The word DevOps is born as abbreviation from "development" and "operations." DevOps refers to a set of practices that combines software development (Dev) and IT operations (Ops) to shorten the development cycle to deliver features, fixes, and updates to end-users while keeping solutions reliable, scalable, and secure. This DevOps culture is complementary Agile software development which improves the speed at which applications and services are delivered.
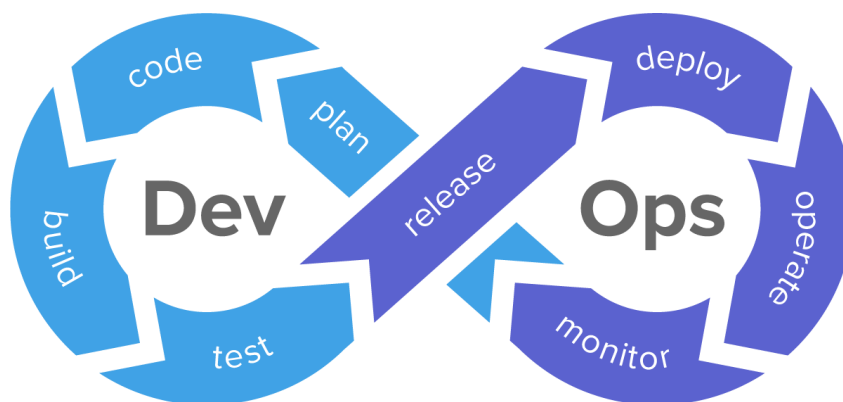
DevOps lifecycle stages

DevOps Principles

DevOps can be a useful methodology, but it also requires a fundamental mindset shift and culture change within an organization. This philosophy is based on several key principles:

- *Automation*: Automate all processes, including testing new code and how infrastructure is provisioned to reduce waste and overwork.

- *Iteration*: Develop small functional units to support releases or sub-releases. This increases deployment speed and frequency.

- *Continuous improvement*: Continuously test and learn from your failures and take action on feedback to improve performance, cost, and time to deploy.

- *Collaboration*: Unify teams, foster communication, and break down silos between development, IT operations, and quality assurance.

The principles of DevOps often extend the lean agile mindset to operations primarily with a focus on automation and tooling to accomplish faster deployment.

Automation allows developers and IT professionals to combine and streamline their energy into one seamless process and adopt agile practices like continuous integration (CI), continuous delivery (CD), and rapid deployment. This process enables collaboration throughout the entire development pipeline from concept and builds to deployment and testing.

Additionally, DevOps principles prioritizes iterative processes that make room for ongoing testing and feedback. Except for acceleration of the development process, this practice also improves the quality and security of the apps.

Implementing the principle of DevOps successfully in your enterprise closes the gap between developers, users, and IT operations by continuously testing, monitoring, and iterating on feedback with smaller but more frequent deployments.

And, What About BizDevOps?

While DevOps bridges the gap between the technical departments of development and operations when it comes to building applications that meet business outcomes, about one third of the IT projects fail. This is due to a lack of collaboration between IT and business stakeholders, which causes a divide between what IT teams create and what the business needs.

This gap was addressed by the evolving DevOps process which included businesspeople. BizDevOps combines non-technical business users with developers and operations teams to develop and deliver customized solutions that meet market and business requirements.

With Gartner projecting the demand for apps to grow five times than the IT's ability to deliver, enterprises can use BizDevOps and aPaaS platforms to accelerate the development of software solutions that meet business needs. Transformify as aPaaS (that includes No-Code, Lo-Code and RAD) integrates BizDevOps stack in-design. It brings together business, development and operations teams to create solutions that add value for business and end-users. aPaaS platforms provide a visual development approach that allows for multi-experience solutions and remove the tedious operation and development tasks associated with traditional code frameworks (even though our Platform doesn't entirely over
throughs it). Transformify smoothly
embraces BizDevOps methodology which allows enterprises to:

- Align development needs,

- Scale with no limits,

- Better Governance,

- Detailed Monitoring, and

- Improve collaboration and productivity.

Transformify's application-Platform-as-a-Service

Our all-in-one Platform allows you to achieve complete DevOps cycle through powerful application development tools and cloud infrastructure.
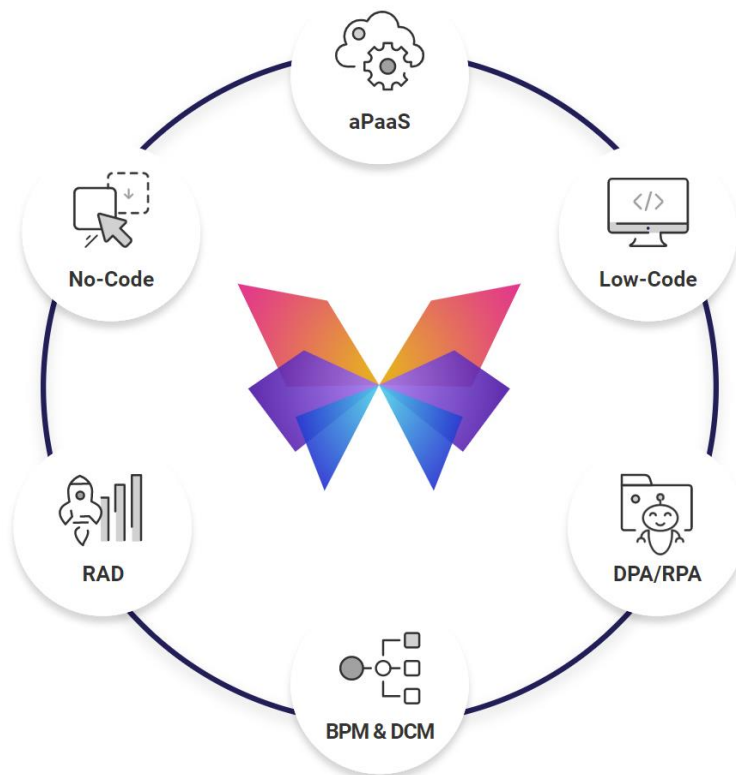
Transformify stands on the shoulders of Microsoft Azure. Using our Platform, you will utilize and enjoy the full benefits that Azure offers. Some of them are:

- Complete data and resource isolation, with dedicated cloud native infrastructure

- Dynamic and proactive capacity scaling

- Automatic backup and complete data disaster recovery

- Compliance for everyone and everywhere

Use your imagination and you can see lots of things in the cloud
formations as application-Platform-as-a-Service is the ultimate beginning of your digital transformation journey

With aPaaS approach in Transformify platform your business can:

- Create or innovate cloud native applications that are built from the ground up on the next-generation BizDevOps stack, optimized for cloud scale and performance.

- Work efficiently through unique DevOps experience from development, testing, deployment, monitoring and management.

- Rely on trusted cloud with SLAs, proactive privacy, security and compliance trusted by enterprises, governments, and startups.

- Work global or local in many regions around the world covered by Azure global infrastructure to keep your business-critical data nearby on highly available and high-capacity networking infrastructure

Ready to start with our aPaaS platform? Request an invite for Transformify private preview (limited availability) to try out our amazing all-in-one platform.