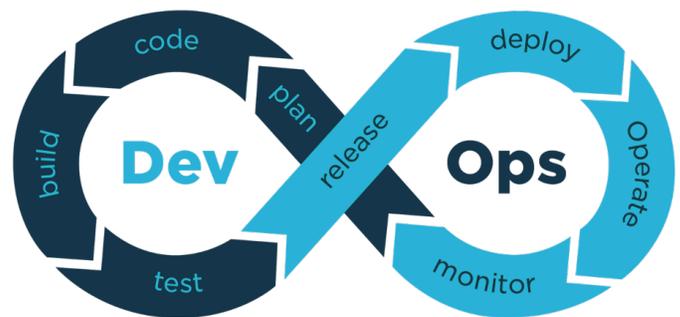# ZeroStack DevOps-as-a-Service

Speed up Software Product Delivery without Worrying about DevOps tooling or Infrastructure

DevOps has become an essential best practice and digital transformation tool to enable agility and flexibility for many organizations today for whom modern agile software delivery is a key differentiator, DevOps is a set of tools, processes, and automation with a focus on breaking down silos between development, operations, and infrastructure in order to improve velocity of product delivery across the entire lifecycle – from concept to production.

Pulling these teams together will require a cultural transition, internal champions, flexible API-driven infrastructure, and the tools necessary to facilitate an organization's digital transformation.

ZeroStack's DevOps-as-a-Service gives software development teams an easy way to consume on-demand compute, storage and networking as well as provide easy access to continuous integration and continuous deployment (CI/CD) tooling and software services that help increase their development throughput and shorten product delivery.

Additionally, it empowers operations teams to manage, maintain and operate the entire infrastructure environment with very few people using smart software that drives automation and intelligence into the entire stack.

The above diagram is a representation of the continuous iteration, continuous delivery methodology DevOps seeks to achieve. This requires multiple tools for various phases that need to be deployed, configured, integrated and maintained. ZeroStack takes care of all this "heavy lifting" so developers can focus on building and delivering their applications faster.
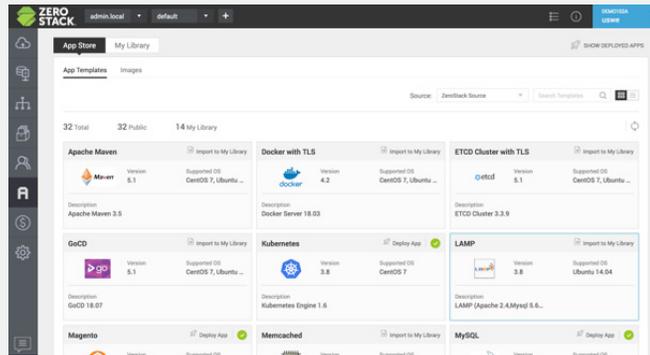
About ZeroStack

ZeroStack Intelligent Cloud Platform is a fully-integrated cloud solution that delivers the simplicity and agility of a public cloud, along with the performance and control of a private cloud, at a fraction of the cost.

ZEROSTACK DEVOPS-AS-A-SERVICE:
Self-Service DevOps Tools with IT Control

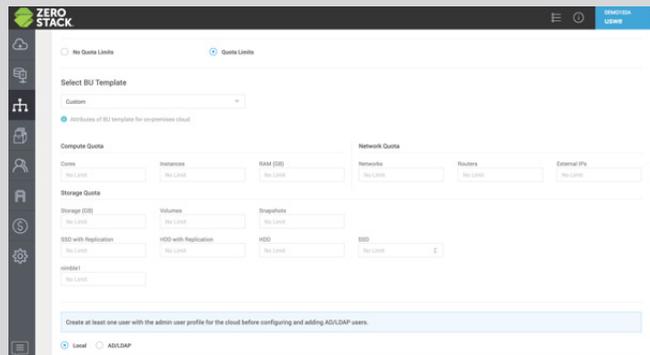**Built-in AppStore with a variety of DevOps tools and applications**

The built-in AppStore offers dozens of application templates that enable customers to deploy DevOps tools and applications with ease. Some of the example templates include the following;

- CI/CD tools such as Jenkins, CloudBees, GitLab, Puppet, Ansible, Apache Maven and GoCD
- SQL and NoSQL databases such as Cassandra, Redis and MongoDB
- Dev Tools and Language stacks such as LAMP stack, MEAN Stack, DevBox, Terraform and Memcached
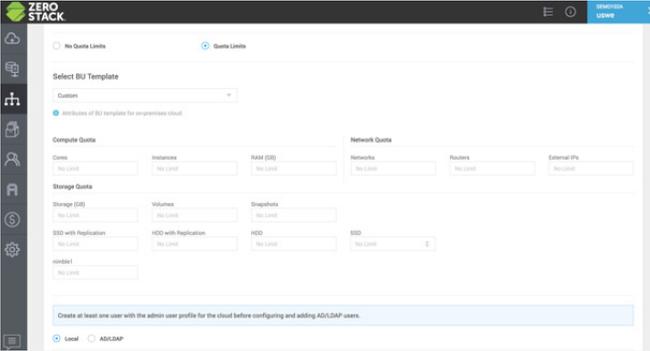- Container tools such as Kubernetes, OpenShift and Docker

Built-in governance and fine-grained access control of underlying infrastructure resources

Cloud administrators can control which business units have access to which apps while specifying usage quotas for storage, networking and CPU resources

ZEROSTACK DEVOPS-AS-A-SERVICE:
Self-Service DevOps Tools with IT Control *(cont.)*

Self-service ready	ZeroStack DevOps-as-a-Service is easy to use once access is provided by the cloud admins. Developers deploy their own apps from the AppStore, network distributed apps using the built-in software-defined networking, monitor usage and plan capacity, and troubleshoot and correlate issues using the built-in tools
Built-in production operational capabilities	For field maintenance, administrators can add and remove physical hosts following host evacuation workflow best practices. The ZeroStack cluster can be scaled up on demand by adding new physical nodes to the cluster.

ZEROSTACK DEVOPS-AS-A-SERVICE:
Use Cases

MSPs who want to provide a DevOps-as-a-Service to their end customers	**Enabling CI/CD, ML, IoT, and many more emerging technologies**	**Agile Operations**
Automated deployment of curated open source tools as well as commercially supported tools, self-service option for developers, controlling customer access to infrastructure resources as well as cost management make ZeroStack DevOps-as-a-Service an attractive new revenue source for MSPs.	Multiple GPU capabilities, dedicated/ full GPU access, streaming analytics tools, small footprint and self-service make this attractive for enterprises and universities who want to develop IoT and ML applications in addition to CI/CD pipelines.	ZeroStack's self-healing features, software-defined networking and storage as well as seamless upgrades and scalability can now be used with GPU applications.