# DevOps

quintagroup

# What is DevOps

Old-fashioned manual processes of deploying software have become passe. Nowadays, the most attractive set of software lifecycle practices is DevOps.
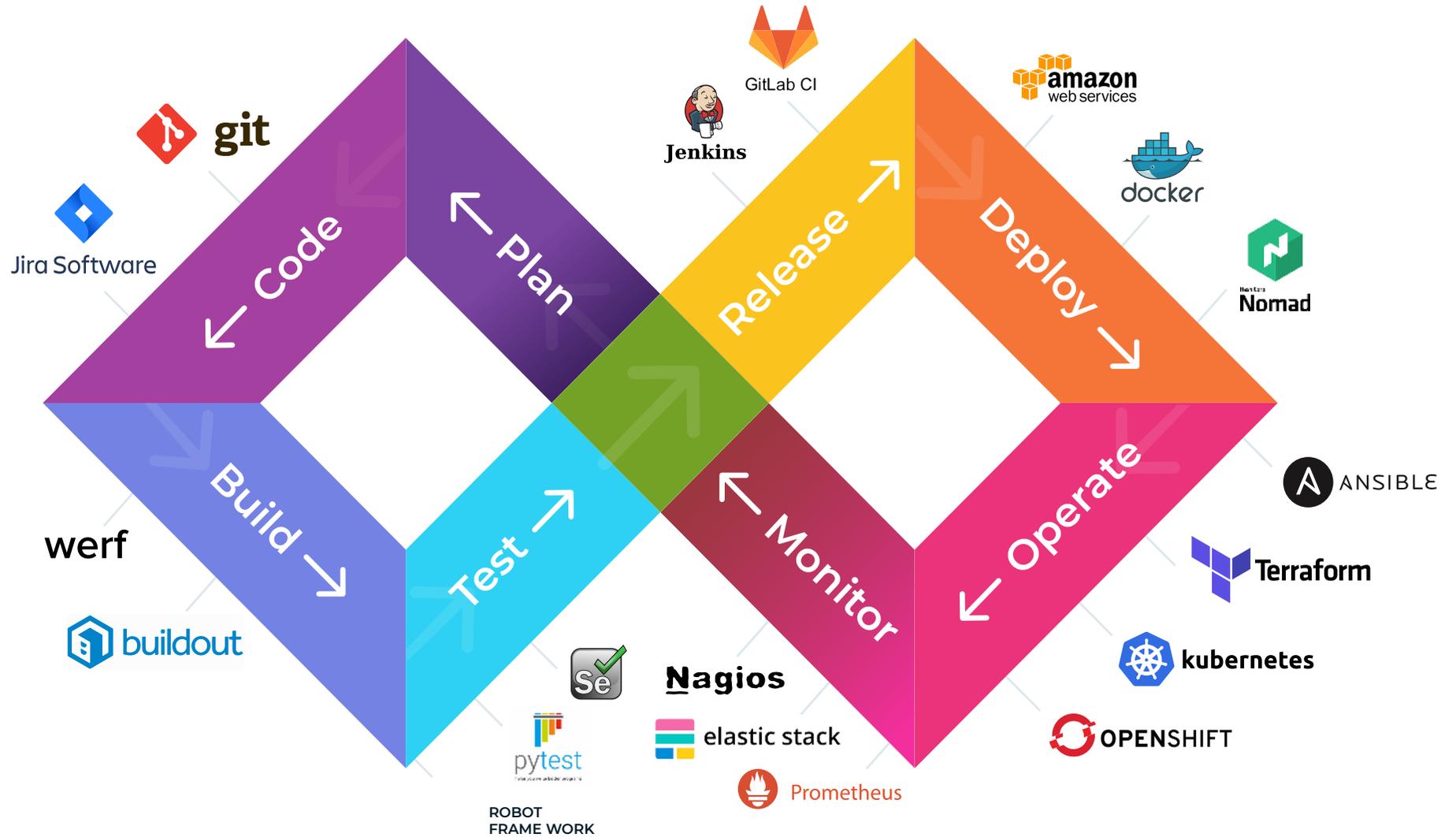
DevOps methodology is based on the agile process of development. The collaboration of Dev and Ops brings business, development and operations managers together to the new pace of business.

DevOps teams steer towards success technically challenging, oftentimes innovative ideas of any scale projects. Be it a startup, e-commerce solution, or public procurement systems.

# The DevOps lifecycle and main technologies
## we employ at Quintagroup   to roll out business capabilities continuously.

# At Quintagroup we offer such DevOps practices

| CI/CD | Deployment Automation | Configuration and optimization | Serverless computing | High-load systems |

# Consulting
and 24/7 monitoring

# CI/CD

**Jenkins**  **Travis CI**  **Buildbot**

**Continuous Delivery** applies to a software engineering automation approach consisting in producing a software product in short cycles.

**Continuous Integration** is an automation practice of merging each developer's copies of their code to a single shared mainline while working on a joint project.

In combination with **automated unit quality control tests**, CI/CD results in constant software feature improvement following the reduction in time to deliver the product.

**Using tools such as Jenkins, Travis and Buildbot, your business benefits from the following:**

- Fast process of software development
- Time-to-value delivery
- Data-driven management
- Efficient work of developers

# Deployment Automation

Automation is the need of our time. It saves precious time of developers and also requires a minimal human intervention which results in reducing the chances of system failure.

**Ansible** is a simple open-source software automation platform in Python that takes care of application deployment, configuration management, task execution, and multi-node orchestration.

**Docker** is an open-source platform for easy creation of lightweight, portable, self-sufficient containers from any app that can be quickly deployed and run at scale, in production, on VMs, bare metal, OpenStack clusters, public clouds and more.

**Terraform** An open-source tool developed by Hashicorp with an aim to use infrastructure as code to make possible the continuous provision of any cloud, infrastructure, or service. Terraform supports many cloud infrastructure providers, for example, Amazon Web Services, IBM Cloud, Google Cloud Platform, Microsoft Azure.

# Configuration and optimization

Using **Amazon Web Services, Google Cloud and Microsoft Azure** we may set up server environments whether it on-site or cloud-based. We may also customize servers and design them for efficient load balancing, setting the basis for automated deployment.

Amazon Web Services is a single name for cloud solutions delivered in a scalable,secure and reliable way. **57 AWS availability zones** across **19 geographic regions** maintain services that are affordable for businesses with the most congested traffic, almost instantly.

While developing the award-winning e-procurement system ProZorro, Quintagroup used **up to 45 servers in one production environment** at some points.

# Serverless computing

**AWS Lambda**

**Google Cloud Functions**

**Microsoft Azure Functions**

**IMB/Apache's OpenWhisk**

Quintagroup also takes one step further. To simplify the development even more and to allow DevOps engineers to build and run applications and services without managing any servers, virtual machines or containers, we base our architecture on serverless computing.

Such examples as AWS Lambda, Microsoft Azure Functions, Google Cloud Functions, IBM/Apache's OpenWhisk will take care of your physical hardware.

# High-load systems

Quintagroup provides the development of high load systems to help businesses manage huge volumes of data
We, as a company, develop software solutions for industries that are concerned with various spheres of life,
including automobile transport sphere, healthcare, machine learning, public procurement, e-commerce, and e-auctions.

## We provide:

High load system development

High-availability clustering and load balancing

Web servers and clusters administration

Scalability, fault-tolerance

Refactoring and optimization of high load systems

Secure database and scalable cloud platform development

Large-scale web applications

High Performance

Flexibility

Security

Scalability

# Why Quintagroup

**1**

Quintagroup company's goal is making technology an efficient and seamless tool that will help your business grow.

**2**

Our experienced and proactive team provides high quality and cost-effective custom software development services.

**3**

We continually work on improving our professional and personal skills in order to build a strong mutually beneficial relationship with our clients.
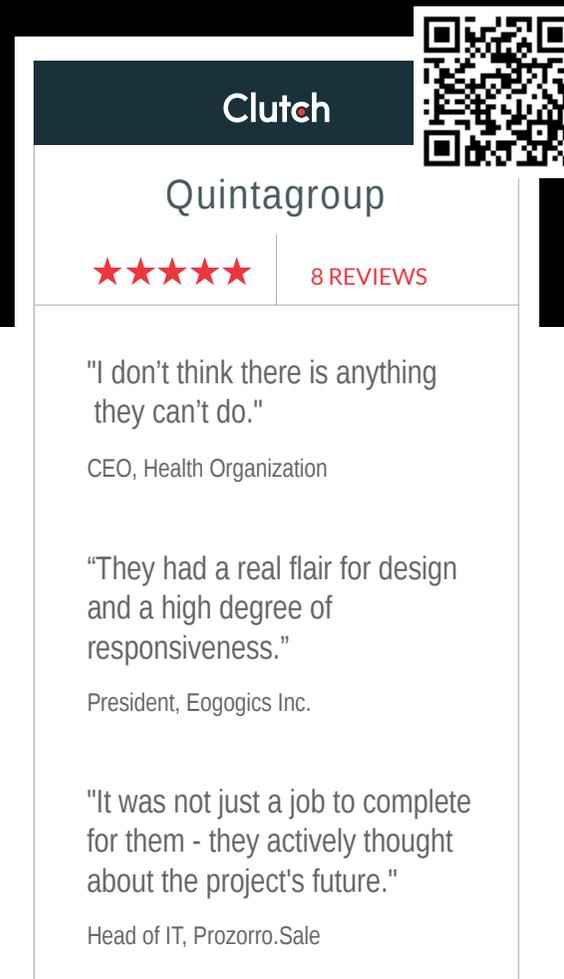
## Apart from DevOps, our services include:

- Python/Django development
- JavaScript development
- Cloud services
- Automated testing
- Internet of Things

- API Development/Testing
- UI/UX Design
- Machine Learning & AI
- SaaS/PaaS development
- Big Data & Analytics

- Blockchain
- Business Intelligence
- High Load Systems
- Plone development
- Odoo development

# 300+ completed and ongoing projects

**and the honor to be among Top 5 Django & Python Development Companies according to Clutch.co**

state that Quintagroup has proved itself as a professional software development company and a tried and true partner to its clients.

## Clutch

### Quintagroup

★★★★★ | 8 REVIEWS

"I don't think there is anything they can't do."

CEO, Health Organization

"They had a real flair for design and a high degree of responsiveness."

President, Eogogics Inc.

"It was not just a job to complete for them - they actively thought about the project's future."

Head of IT, Prozorro.Sale

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