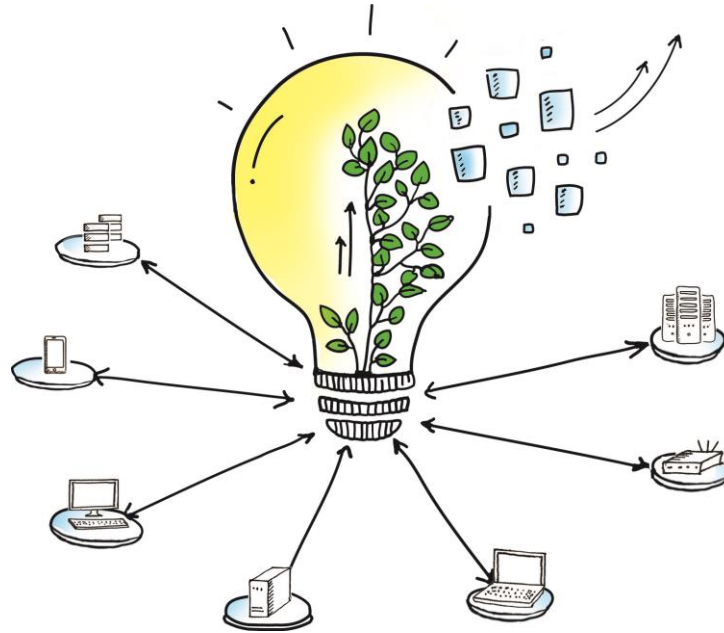**talentica**
DREAM · BUILD · DISRUPT
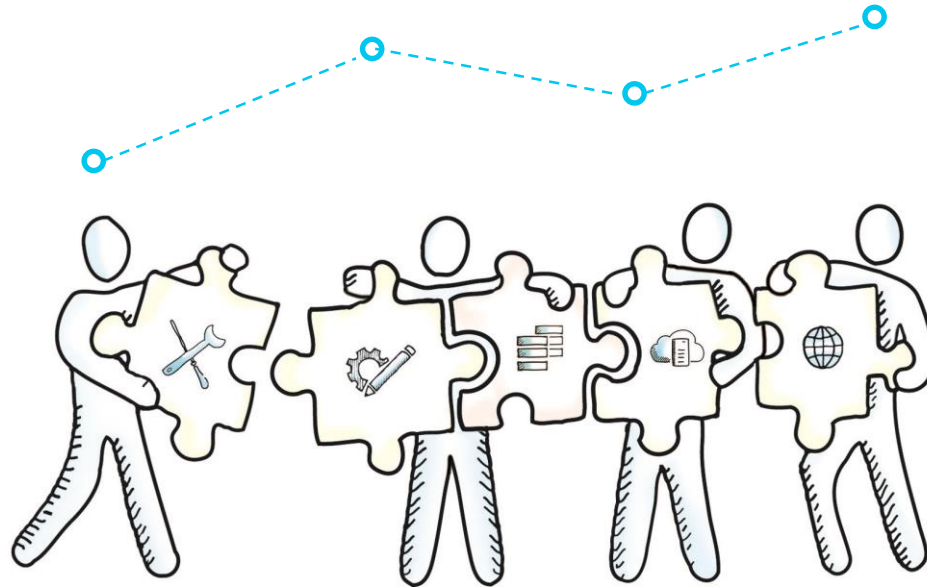
Infrastructure
Management

Infrastructure is rapidly becoming
## a powerful enabler of innovation

From being a mere provider of computing power and storage, Infrastructure is now a platform that enables businesses to scale and grow.

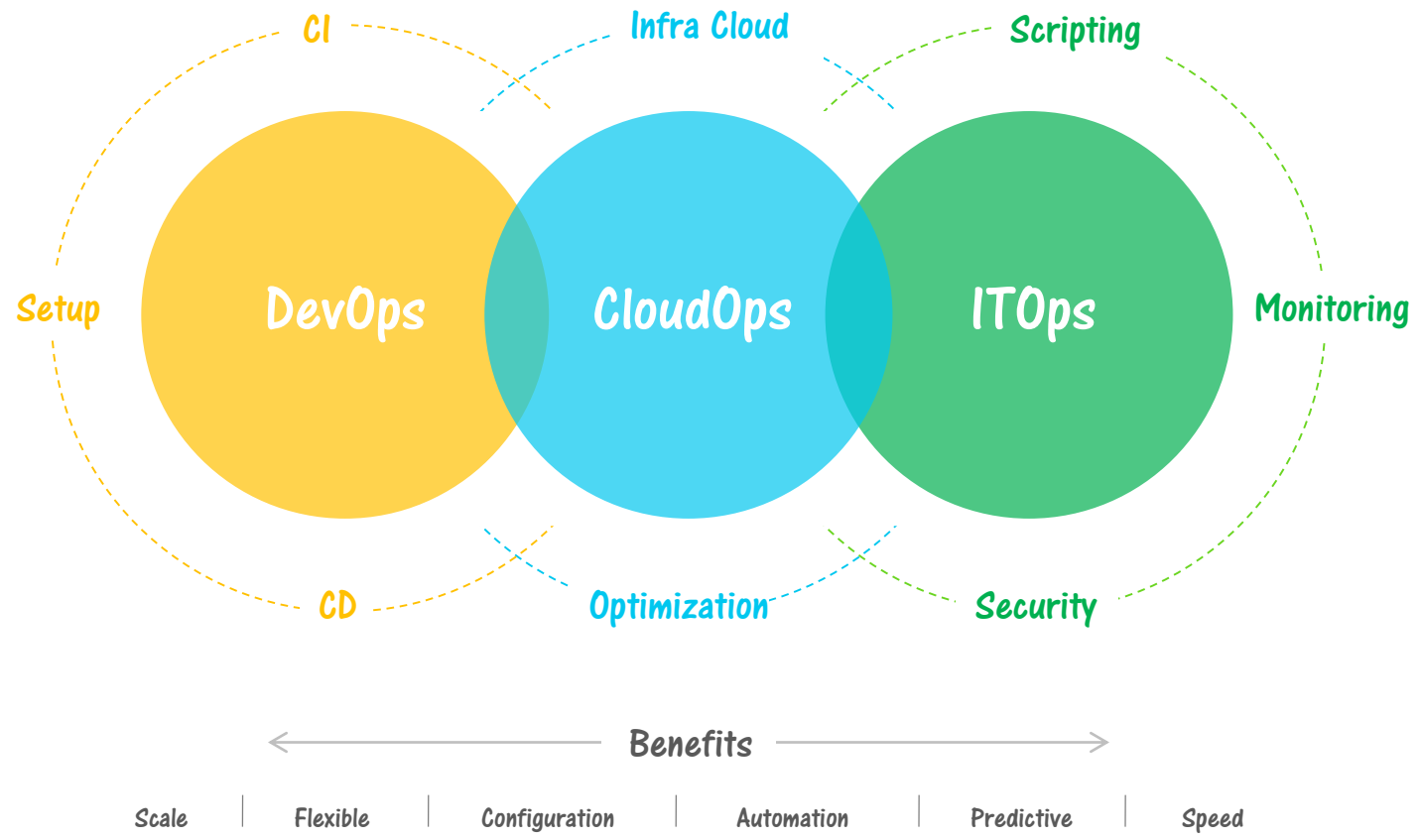# Infrastructure and development
are now inseparable

Working in synergy, they enable businesses to build flexible and reliable products, that can handle volume and functionality growth seamlessly.
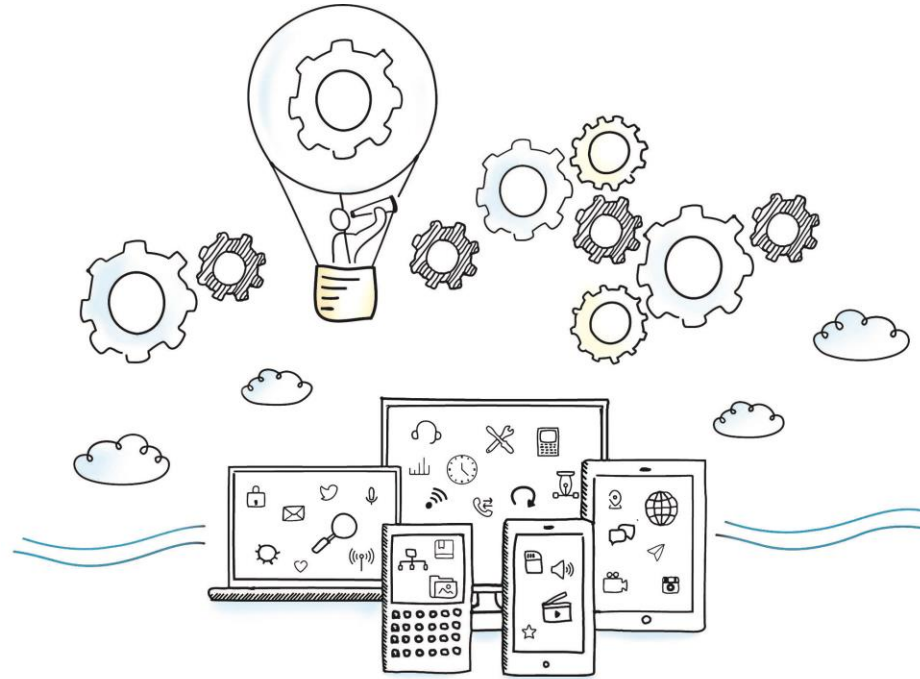
Looking for that synergy?

As your product development partner, Talentica can help you synergize development and infrastructure capabilities. Our infrastructure teams collaborate closely with development, to ensure that your product is built on a platform that enables it to grow.

Infrastructure Management
Service Portfolio

CI

Infra Cloud

Scripting

Setup

DevOps

CloudOps

ITOps

Monitoring

CD

Optimization

Security

Benefits

Scale | Flexible | Configuration | Automation | Predictive | Speed

Infrastructure Management
Offerings

Bootstrap .... **Scale** .... **Mature** ....

DevOps

Bootstrap
- Continuous Integration
- Environment Setup (Test, Dev and Staging)
- Task Automation using open source tools

Scale
- Multi-server Deployment
- Continuous Delivery
- Log Management

Mature
- Infrastructure as Code
- Version Management
- Change Management

ITOps

Bootstrap
- Quick recovery Production Environment setup
- Basic monitoring with alerts - Infrastructure
- Basic monitoring with alerts - Applications
- Application and Database backups

Scale
- Disaster Recovery Setup
- Alerts Playbook for day to day alerts
- Patch management
- Software updates
- 24 x 7 x 365 support
- Configuration Management

Mature
- High Availability
- Server Infrastructure setup based on trends
- 24 X 7 support
- Security Audits, Certifications

CloudOps

Bootstrap
- Public Cloud Setup
- Auto-scaling
- IAM roles
- Access / Security Key Management.
- SSH Key Management

Scale
- Public / Private Cloud Management
- Infrastructure Security
- Intrusion Detection System
- Snapshot Management

Mature
- Infrastructure Cost Optimization

Approach

Having the right people for the job

Our engineer for the job:

- Lives and breathes technology
- Is passionate about learning new technology and implementing
- Has good communication skills

Infrastructure as code

- Automation at every step – continuous build / integration and deployment
- Tools to monitor servers and send alert notifications
- Environment specific configurations are externalized
- Systems have the ability to rollback to any previous version

Approach

We build it, we own it

- Collaboration with developers to ensure the right deployment architecture is in place
- End to end infrastructure management, Build & deployment automation, 24*7 monitoring
- Infrastructure optimization by choosing the right servers and tools at all stages

Infrastructure Management tailored to product lifecycle

- MVP stage - Build automation and manual deployment
- Version 1 release - Complete automaton of the deployment process along with monitoring
- Scale / growth stage - Servers are proactively optimized for scale

Quick and controlled adoption of new technologies

- Adopting stable & mature technologies
- Adopting technologies in Beta only if they add cost value, or provide competitive advantage
- Learning culture - Quick POC's on new technologies to understand their benefits

Why Talentica?

1 + 1 = 3
Easy collaboration with development team resolves issues quickly

Startup Experts
A decade of experience with more than 100+ startup products developed so far

Multi-Skilled Talent
Our engineers are experienced in database administration, application management, and server management
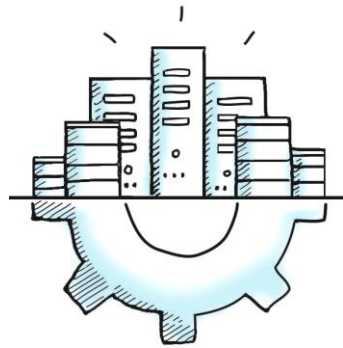
Customized Open Source Solutions
Reduce development costs and increase customization flexibility

Real Time Monitoring
Our custom built monitoring solutions help in real time monitoring and improving uptime

Technology Expertise

Cloud
AWS, Google Cloud, RackSpace, Openstack

Configuration management
Chef, Puppet, Ansible

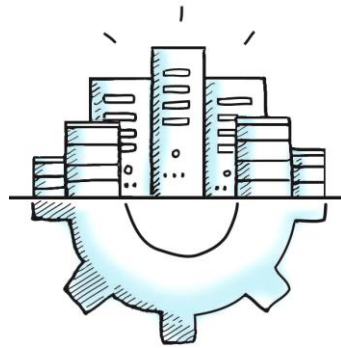**Continuous integration**
Jenkins, Phing, CircleCI, TravisCI, CloudBees

Infrastructure automation
Fabric, Rundeck

Scripting languages
Shell, Python

Technology Expertise

Big data
MongoDB, Redshift, AWS Analytics: Elastic Map Reduce

Monitoring tools
Nagios, Cacti, Icinga, Zabbix, Pingdom, Graphite, New Relic, Prometheus, Reimann, SignalFX
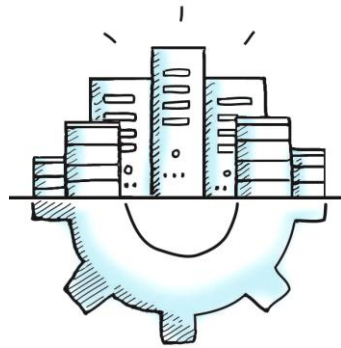
Load Balancing
HaProxy, ELB, Traefik, Stunnel

Web servers
Apache, Nginx, Tomcat, HHVM, Jetty

Log management
Log stash, Kibana, Elastic Search, Graylog

Technology
Expertise

Microservices
Docker, ECS

Cluster Management
Mesos, Mesosphere, Kubernetes

Hashicorp Tools
Packer, Terraform, Vagrant, Consul, Otto, Nomad

Distributed Time Series Database
Influxdb, PipelineDB

Databases
MYSQL, PGSQL, MARIADB

Experience - AdMarvel

Challenges

- Poor server setup resulted in poor scalability at peak usage hours
- Regular outages during festivals
- The platform suffered from reliability issues
- System security needed to be overhauled
- DevOps automation was needed
- SLA-driven Managed Services were needed

Solution

- We created a strategic roadmap for the lighthttpd to nginx and HHVM migration
- We created a strategic roadmap for the migration from Fedora 8 to Amazon linux – for better security and optimum performance
- We setup custom auto scaling for programmatic bidding and ad servers
- Chef , Fabric, Jenkins were setup to provide CI, CD and configuration management
- SLA-driven 24*7*365 Managed Services were put in place

Business Benefits

- Uptime of the service is now 99.9999%
- Around 10 billion hits per day are easily handled
- Zero downtime
- Monthly turnover has increased with lower infrastructure costs
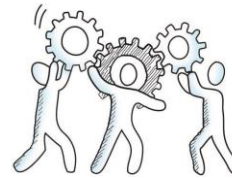- SLA-driven 24*7*365 Managed Services have helped in proactive and preemptive troubleshooting of issues

Experience – Opera Payment Exchange

Challenges

- Managed Services were initially done in-house using IT support staff
- The platform suffered from reliability issues
- System security needed to be overhauled
- DevOps automation was needed
- SLA-driven Managed Services were needed

Solution

- We performed a complete review and analysis of the setup on AWS
- Using VPC's customized firewalls we were able to make the application more secure
- We provide a detailed analysis for cost & performance optimization; Cost optimization was targeted
- SLA-driven 24*7*365 Managed Services were put in place

Business Benefits

- Uptime of the service is now 99.9999%
- SLA-driven 24*7*365 Managed Services have helped in proactive and preemptive troubleshooting of issues

Contact Us

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