

# Andrii Aheiev

DevOps, Cloud Architect

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## ***Design, build, automate infrastructure and CI/CD processes***

DevOps Engineer with 12+ years of experience in managing cloud infrastructure, ci/cd processes and automation. Practical experience in Kubernetes administration, Linux and database management.

- Designing and implementing infrastructure as code for AWS, Azure, Google Cloud, DigitalOcean, etc.
- Designing, implementing, securing and automating CI/CD processes and application infrastructure using micro-services architecture.
- Design and support application migration from VM-based infrastructure to dockerized micro-services in Kubernetes.
- Bringing operation requirements to software engineering and provide maximum scalability and availability for applications and services.

## ***Building and optimizing cloud applications infrastructure***

Describe OS, software, network, computer resources configuration and create Infrastructure and Configuration As Code with Terraform, Ansible, Puppet, and other tools on different clouds: AWS, Azure, Google Cloud, DigitalOcean, etc.

- Optimizing infrastructure and application for high load.
- Implement infrastructure as code and change management.
- Design and implement application, infrastructure and security monitoring.
- Implement notification policies and define escalation rules.
- Create backup and disaster recovery process. Implement data archiving.

## ***Implementing CI/CD processes for dockerized apps and Kubernetes***

Automate CI/CD processes with Jenkins, Azure DevOps, Teamcity (or other) pipelines to implement

- Build application with docker. Move build configuration to the Dockerfile.
- Publish and promote docker image to container registry
- Deploy docker container to Kubernetes with helm and run integrational tests
- Run integration, acceptance or distributed performance testing
- Deploy application to development environment and trigger release pipelines

## ***Machine Learning workflows automation and CI/CD***

- Dynamic environment for ML train processes in Kubernetes or Computer Cloud
- Microservice configuration and profiling for ML prediction application
- Build, test and deploy pipelines for Kubernetes

## Experience

Feb 2020 – now

Azure AKS Docker  
Kubernetes Helm  
Automation CI/CD  
Azure DevOps Azure  
Pipelines Aqua Security  
CISO SEM IaC  
PostgreSQL Azure  
Service Bus Kafka

### **Site Reliability Engineer**

*XLinq / ING. Contract*

#### **Infrastructure development and CI/CD processes automation**

- Infrastructure cloud design and configuration in Azure
- Micro-services design and full lifecycle implementation (build, test, Kubernetes deploy)
- CI/CD processes automation with Azure DevOps
- Infrastructure/application monitoring design and implementation with Azure Monitoring and Log Analytics
- Security monitoring. Implementation of CISO and SEM rules with Azure Sentinel
- Kubernetes infrastructure and ci security for docker images

June 2018 – Jan 2020

Docker Kubernetes  
helm Automation  
Jenkins CI/CD Ansible  
Azure AWS Groovy  
Ruby Airflow ML H2O  
Kafka Kinesis Jetty  
Ruby .Net MSSQL

### **Senior DevOps**

*PitneyBowes. Contract*

#### **Development infrastructure and CI/CD processes automation**

- Jenkins CI/CD Pipelines: build, test, publish and deploy micro-services (NodeJS, Dotnet with Docker and Kubernetes). Release preparation.
- Application infrastructure design and implementation with docker and Kubernetes (AKS, EKS)
- Design and implementation Machine Learning CI/CD pipelines (train, test and deploy prediction application)

#### What was done:

1. Dockerized complex .Net event-processing application and created set of micro-services
  - a. Application requirements (health checks, logging, resources profiling, etc.)
  - b. Local Dev / Test environment with docker-compose
  - c. QA/ Stage / prod environment deploys in Kubernetes using helm charts
  - d. Integration testing
2. Events synchronization from Kafka to AWS Kinesis
  - a. Local model with docker-compose
  - b. Permanent Azure AWS events synchronization implemented on AKS
3. Infrastructure migration from Azure to AWS (development and CI/CD)
4. ML prediction app pipelines - design and automation
  - a. Dynamic H2O cluster
  - b. Docker jetty container with H2O models
  - c. Deploy and performance testing

May 2017 - May 2018

AWS Ansible Jenkins  
Ruby Automation  
Backup Archiving

**Senior WebOps**

*Provectus for Determine. Contract*

**SaaS Product infrastructure and processes automation.**

Infrastructure and processes automation (AWS, Jenkins)

Backup and archiving processes automation for files and Oracle Databases (RDS)

What was implemented:

- Redesigned and implemented automated process for SaaS backup and archiving
- Created custom inventory service with scheduled information update
- Improved monitoring processes

Oct 2016 - Apr 2017

Google Cloud  
Automation Ansible  
Puppet Terraform Jira  
Confluence MySQL  
Atlassian AWS Puppet  
MPI Cluster Docker  
Bamboo MacOS

**DevOps Architect**

*Nest. Contract*

**Dev Infrastructure migration from AWS to Google Cloud.**

- Infrastructure design for Development services in Google Cloud Platform (Atlassian stack and build infrastructure) Automate infrastructure provisioning and configuration.
- Created migration plan to move infrastructure services from AWS cloud to GCP cloud.

May 2012 - Apr 2017

Private Cloud, Web  
Infrastructure VMware  
MySQL automation  
CI/CD High-Load  
Puppet

**DevOps Architect**

*Freelancer*

**Full infrastructure and DevOps support for multiple small web-projects**

- Cloud infrastructure design and automation
- Domain and SSL management
- Private Cloud design and implementation (VMware, HP, Dell, EMC)
- Infrastructure configuration with Puppet
- Security audit. PCI DCC.

Aug 2005 - Apr. 2012

Oracle Linux Puppet  
PHP Ruby VMware  
Private Cloud RHEL  
Windows Server Active  
Directory SLES HP  
SAN

**Lohika**

*Site IT manager / Ops Lead*

Entire site operation, IT infrastructure and team management, site IT budget planning. Communication with software and hardware vendors and resellers. Communication with local service-providers.

On that position:

- Prepared budget for Private Cloud (for local datacenter). Dealing directly with software and hardware resellers to get best term and prices.
- Design and deployment of Private Cloud on external datacenter.
- Implemented new workflow to delivery resources to DEV and QA, which allows us to more flexible planning and managing resources.
- Designed and implemented IT infrastructure for two new office-spaces in Odessa. (Telephony, networking, conference-rooms, etc.)

*Senior IT / DevOps*

Installing and managing different application environments with separated or shared DB (Oracle, MySQL, SQL) Linux Administrator, Oracle DBA – support all instances of Oracle RDBMS on entire the site

On that position:

- Build from scratch Virtual Private Cloud on existing hardware. Implement new workflow to ordering new resources to existing Cloud
- Provide internal education on Red Hat Linux, Oracle DB to QA and developers

Apr 2003 - Aug 2005

***Software Engineer / DBA***

*TWT Ukraine*

Linux FreeBSD MySQL  
Telecom Perl PHP  
DialUp PostgreSQL

***Development and support for telecom billing.***

On that position:

- Changed core database from MySQL to PostgreSQL
- Business logic moved from different system parts written on C++, Perl and PHP to PostgreSQL stored procedures
- Optimizer and automated reporting processes

**Education**

1998 - 2003

***Odesa State Polytechnic University***

Computer and Network Systems

2016

***MongoDB University***

[M102. MongoDB for DBA](#)

2011

***HP Education center***

VMware vSphere 4.0 – Deploy, Configure, Manage

2006

***Kvazar Micro Education center***

Oracle 10G Administrator