

# Andrea Mandolo

## Senior DevOps Engineer

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Monselice (PD), Veneto, IT

Passionate about infrastructure development. Committed from 10 years to automate everything that makes the developer's life better. Always searching for the simplest, cost-effective, and most maintainable solutions, always assuring the best level of security as possible.

### Experience

#### Senior DevOps Engineer

Jan 2018 - Present

THRON S.p.A.

During these years my main responsibilities are:

- evolve the infrastructure and development processes (k8s and CD)
- support juniors to grow continuously and become a landmark to the other teams
- maintain aligned all infrastructure people across different teams
- improve the security of the whole platform and the development flows
- adopting best practices everywhere, to achieve the ISO-27001 certification
- optimize AWS costs with detailed reservation plans and cost-effective architectures
- refactor the AWS organization, to easily manage the existing accounts and the new ones
- migrate on-premise MongoDB clusters to the Atlas managed ecosystem

- security and compliance
- DevOps leadership and mentoring
- technological strategy
- cost-effective architectures

#### Full-stack developer (free time)

Nov 2020 - Apr 2021

UniSMART - University of Padua Foundation

Implement the Academy Web Portal to allow Master's course proposals management

- Analysis of requirements and architecture
- Design the APIs (with Strapi)
- Design the User Experience (with Vue.js)
- Modeling a MongoDB database
- Server-side Rendering (with Nuxt.js)
- Manage SEO and legal aspects

#### DevOps Engineer

Jan 2012 - Jan 2018

THRON S.p.A.

Mainly, my energies are focused on:

- migrate the physical datacenters to the AWS cloud
- switch workloads from Windows to Linux
- develop automated workflows to build and securely deploy the code
- encourage adoption of new design patterns and methodologies (microservices, containerization, serverless)
- manage a CDN layer in front of the origins to improve their performance, reachability, and availability (also for China)
- maintain the MongoDB clusters to an EC2 implementation
- contribute to the media-conversion system refactoring
- define the backup and disaster recovery strategies of the platform
- create tools for developers to help their day-by-day projects
- evolve a huge Live Media Streaming worldwide ecosystem with CDN accelerations

- cloud migration
- microservices
- architectural simplification
- containerization
- automated deployment
- serverless approach

#### Full-stack Developer

Apr 2011 - Jan 2012

THRON S.p.A.

Analysis, design, and development of a prototype network appliance to improve the delivery and caching of contents in customer networks

- delivery optimization
- on-premise devices and IDCs
- transparent caching
- DNS manipulation

### Skills

Cloud	CDN
AWS Serverless SQL/NoSQL DBs	Akamai / Caching China Delivery
Networking	Big Data
API Gateway Service Mesh Nginx	Spark ETL pipelines ELK stacks
DevOps	Streaming
GitOps CI / CD Jenkins, Ansible Linux Prometheus	Wowza AWS MediaLive
Containers	Languages
Docker AWS ECS Kubernetes	Python / Bash Java / Javascript Go / Scala
	Soft
	Problem-solving Critical thinking Communication Leadership

### Education

Bachelor, Computer Science  
University of Padua

### Certificates

AWS Solutions Architect – Associate  
Amazon Web Services (AWS)

### Languages

Italian · Native speaker  
English · Fluent speaker

### Links

[andrea.mandolo.net](https://andrea.mandolo.net)  
[linkedin.com/in/andrea-mandolo](https://linkedin.com/in/andrea-mandolo)  
[github.com/amandolo](https://github.com/amandolo)