



# Nicolas Maupu

SRE/DevOps, Kubernetes, Go and cloud expert

Freelance - 16+ years of experience

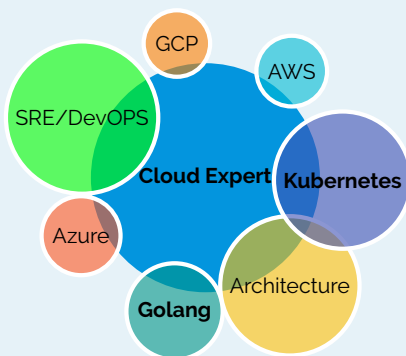
## About me

Nicolas Maupu  
 French  
 1982  
 Paris

## Languages

**French** | C2 mother tongue  
**English** | C1

## Interests



## Skill highlights

### Clouds and containerization

Kubernetes	●	●	●	●	●
Amazon AWS	●	●	●	●	●
Google GCP	●	●	●	●	●
Cloudflare	●	●	●	●	●
Microsoft Azure	●	●	●	●	●

### Infrastructure as Code

Git	●	●	●	●	●
GitOps	●	●	●	●	●
Terraform	●	●	●	●	●
Ansible	●	●	●	●	●

### Monitoring

Prometheus	●	●	●	●	●
Thanos	●	●	●	●	●

### Systems & Languages

Golang	●	●	●	●	●
Python	●	●	●	●	●
Bash	●	●	●	●	●
GNU/Linux	●	●	●	●	●

## PROFESSIONAL OBJECTIVE

Kubernetes and cloud expert with 16+ years of experience in designing and managing highly available and scalable production platforms. Looking for an opportunity to join the chess industry to ally my passion for the game and my professional life. Passionate about technology, I am excited to use all my knowledge to help you thrive.

## LATEST EXPERIENCES AT A GLANCE

Oct. 2021  
Jan. 2023

**Sonepar** · Freelance · Paris (Remote) 📍

Prepared and implemented a multi-tenants **Kubernetes** architecture (Azure) for all Sonepar entities to allow homogeneous deployment of company's assets.



Aug. 2019  
Sept. 2021

**e.Voyageurs SNCF** · Freelance · Lille (Remote) 📍

Implemented an "on-demand" **Kubernetes** stack (AWS) to conduct a smooth migration of all SNCF components to AWS.



Nov. 2017  
Aug. 2019

**Ritmx** · Freelance · Paris (half remote) 📍

Created and led a team responsible for implementing a **Kubernetes** infrastructure (GCP, on-prem) and led the migration of all existing Java applications to it.



Sept. 2016  
Oct. 2017

**Mirakl** · Freelance · Paris 📍

Developed a **Kubernetes** platform (AWS) and migrated all applications to it with automated and continuous deployments.



## DEGREES

- 2007 **Master** Analyses des Systèmes Stratégiques  
Awarded with high honours – Versailles
- 2003 **DUT** Génie informatique  
Awarded with honours – Vélizy
- 2001 **Bac général** Série S, spécialité mathématiques  
Déville-les-Rouen

## MISCELLANEOUS

- **2013** (7 months), **2016** (7 months) and **2023** (7 months):  
Travel around the world.
- Open source projects and experimentations:
  - **vault-secret** creator (Kubernetes operator (Go) to inject secret resource based on Hashicorp Vault)  
<https://github.com/nmaupu/vault-secret>
  - **freenas-provisioner** creator (Kubernetes operator (Go) to dynamically provision a NFS volume from a freenas instance)  
<https://github.com/nmaupu/freenas-provisioner>
  - Reverse engineering work on IoT devices  
<https://github.com/nmaupu/yokis-hack>  
<https://tinyurl.com/hackaday-yokis-hack>

## HOBBIES



Travel



Photo



DIY



Chess



Games



Climbing

## DETAILED WORK EXPERIENCES

Oct. 2021  
Jan. 2023

### Sonepar – Freelance · Paris (Remote) 📍

Prepared and implemented a multi-tenants architecture for all Sonepar entities to allow homogeneous deployment of company's assets.

- Automatized and deployed Kubernetes clusters (AKS) to host applications (Java micro-services and NodeJS).
- Massive and systematic use of the Operator Pattern <https://kubernetes.io/docs/concepts/extend-kubernetes/operator>.
  - Created a REST API (Go) to inventory and manage deployments of infrastructure components (using Custom Resources for storage).
  - Deployments managed by ArgoCD and CI/CD.
  - Created various operators based on this API.
- Managed and resolved performance issues with related teams.
- Set up a log stack (Azure → Kafka → Fluentd → Splunk).
- Set up a highly available monitoring stack agnostic from the platform (Prometheus, Thanos, Alertmanager).
- Prepared multi-clouds deployment with GCP (network and agnosticity of Azure components)



Aug. 2019  
Sept.  
2021

### e.Voyageurs SNCF – Freelance · Lille (Remote) 📍

Created a team to implement an "on-demand" Kubernetes stack to conduct a smooth migration of all SNCF components to AWS.

- Use of the Operator Pattern when relevant.
- Created a REST API (Go) to request the creation of new namespaces into clusters (DynamoDB backend).
- Created an operator (Go) listening this API and taking action on several events.
- Clusters managed as code with GitOps/FluxCD.
- AWS assets managed with Terraform.



Nov. 2017  
Aug. 2019

### Ritmx (SNCF company) – Freelance · Paris (half remote) 📍

Led the migration of all existing Java applications to Kubernetes (Java).

- Supervised project teams.
- Designed and implemented on-premises and GKE Kubernetes clusters using Terraform, Packer, and other tools.
- Prepared a unified inter-team deployment pipeline for delivering on Kubernetes.
- Managed secrets using HashiCorp Vault.
- Transitioned to Spring Cloud Config for managing application configurations.



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