ETTORE CIARCIA - SITE RELIABILITY ENGINEER

WORKING EXPERIENCE

SIGHUP - Cloud & Kubernetes Engineer

📅 Apr 2023 - Present   📍 Milan, Italy (Full Remote)

- I actively participated in a major Kubernetes upgrade campaign **(25+ clusters)** aimed at upgrading client clusters to the latest available versions (**100+ version** upgrades achieved with minimal downtime and without exceeding the error budget). This initiative provided me with an opportunity to significantly enhance my expertise across a wide spectrum of internal cluster services. I executed these operations on leading cloud providers, as well as on-premise environments utilizing vSphere.
- I took part in overnight rotations for the 24/7 on-call service for critical clients and actively monitored live streaming services that experienced heavy traffic during live broadcasts (>2000 requests per second)
  Technologies involved : Kubernetes, Grafana, Prometheus, Velero, NGINX Ingress Controller, AWS, Azure, Terraform, Ansible, Kong Gateway

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Epsilon S.r.l - Cloud Engineer

📅 Nov 2021 - Apr 2023   📍 Naples, Italy (Hybrid)

- Proficient in infrastructure provisioning utilizing Infrastructure as Code (IaC) policies across leading cloud providers via Terraform Cloud or with self managed state (25+ projects). Experience in designing and implementing pipelines for seamless container deployments on Kubernetes and Amazon Elastic Container Service (ECS)
- Migrated an entire project and all its components from Docker Swarm (on premise) to Kubernetes (OKE) and created pipelines for each service to enable automatic build and deployment
  Technologies involved: Kubernetes, Docker, Terraform, Linux System, AWS Services (EKS, ECS, ECR, EC2, VPC, Lambda,S3, CDN, Pipeline Stack, IAM), Oracle Cloud

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CSC Informatica - System Administrator

📅 May 2019 - Feb 2021   📍 Avellino, Italy (On Site)

- Managed the IT department of a clinic (140+ workstations) and the connections with the medical devices in the clinic's laboratory. Migrated nearly all end-of-life devices to more supported versions.

PERSONAL PROJECT

- **Self hosted K3s in my homelab + DevSecOps pipeline** The goal of this project was to simulate the complete lifecycle of an application, starting from the moment a developer pushes code to a VCS to when the changes are deployed into production within the cluster. To achieve this, I implemented a DevSecOps pipeline using GitHub Actions and utilized a single-node K3s cluster.
- **Personal Website**: I needed a space to share my monthly article, so I built this website with Hugo, hosted it on an S3 Bucket, and deployed it using Terraform. Additionally, I've implemented CI/CD pipelines with GitHub Actions. From pushing changes to the main branch to making them live on the website, it takes less than 20 seconds. **Costs: less than 0,60 USD per month, SLA: 99,99%.**
- **Sharing homelab over a network overlay**: Project born out of the need to have a Kubernetes cluster with nodes in different homelabs (in different countries) and realized by setting up the necessary infrastructure on AWS using Terraform and a Headscale server configured with Ansible. **Cost: 0 USD, SLA (single EC2 instance for the Headscale server): 99.5%**

PERSONAL INFO

Date of birth: 15/02/1996
Mail: ettoreciarcia.tech@gmail.com
GitHub: ettoreciarcia
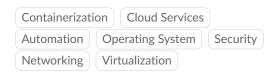Personal website: ettoreciarcia.com
Location: Avellino, Italy

TALKS

Kubernetes, kubernauti and Kubeinvaders! 2023
AWS EKS - AWS Immersion Webinar 2023
Honeynet on AWS 2022

CERTIFICATIONS

Terraform Associate 003 2023
Certified Kubernetes Administrator 2023
AWS Solution Architect Associate 2023
AWS Cloud Practitioner 2020
Microsoft Azure Fundamentals AZ-900 2020

SKILLS

Containerization   Cloud Services
Automation   Operating System   Security
Networking   Virtualization

MAIN TECHNOLOGIES

AWS   Kubernetes   Containerd
Linux System   Terraform   OCI   Ansible
ELK Stack

PROGRAMMING LANGUAGES

Python   C/C+   Bash   SQL

LANGUAGES

Italian   ●●●●●

English   ●●●●○

EDUCATION

Accenture - Cyber HackAdemy

Federico II, Naples

📅 May 2021 – Jan 2022

BE Computer Engineering

Federico II, Naples

📅 2015 – Ongoing