ETTORE CIARCIA - SITE RELIABILITY ENGINEER

WORKING EXPERIENCE

SIGHUP - Site Reliability Engineer

Apr 2023 - Present

Milan, Italy

- 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

Epsilon S.r.l - Cloud Engineer

Mov 2021 - Apr 2023

- 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

CSC Informatica - System Administrator

May 2019 - Feb 2021

Avellino, Italy

 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

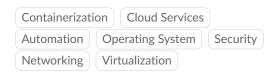
TALKS

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



MAIN TECHNOLOGIES

AWS	Kuberi	netes	s Containerd		
Linux S	System	Terra	form	OCI	Ansible
FLK St	ack				

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