



## Matteo Salonia

SysOps & DevOps Engineer

- ▶ Living in **Ragusa (RG), Italy**
- ▶ Graduated with **98/100**

## Contacts

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## Projects

### ⌚ Wordpress on AWS

**Wordpress deployment on AWS:** Highly Available, Distributed, Monitored in real time, Replicable, Secure, and Scalable.

### ⌚ AWS resources (Italian)

Website that provides vast info regarding **AWS services & fundamentals**

### ⌚ Kernel

My custom **Linux Kernel** builds, containing a script that facilitates **Kernel selection, patching & optimization process, compilation, and installation**

## Languages

Italian: Native

English: **B2 CEFR Certification**

Spanish: **B1**

German: **A1** (Actively improving)

## Biography

SysOps/DevOps Engineer with hands-on experience on **AWS, Cloud computing & IaC, GNU/Linux servers, automation, scalability, resiliency, and observability**. I analyzed and optimized **60+ servers** in **QA/dev & prod environments**. I've built several infrastructures on **AWS Cloud** and **on-premises**. I actively manage a **homelab** with **multiple nodes**. I'm always ready to face new challenges with determination and passion.

Throughout my career I've developed a solid ability to **manage and organize my work independently**, facing challenges with **resourcefulness**, and overcoming difficulties with **resilience**, even in moments of greatest stress. My experience in teamwork has taught me the **importance of collaboration to achieve common goals** and to actively **listen to the needs of others**, while my leadership skills have allowed me to **guide and motivate my team towards success**. I'm always **attentive to details**, approaching each task with precision and care.

## Certifications

In **November 2024** I won a scholarship for the **AWS re/Start** program, which I participated in at the **Edgemony** training school. I'm currently studying to obtain the **Solutions Architect Associate** certification.

### AWS (Amazon Web Services)



#### Solutions Architect Associate (In corso)

Certifies skills in **design and implementation of secure, scalable, and resilient architectures**.



#### Certified Cloud Practitioner (Febbraio 2025)

Certifies **cloud computing** and **AWS ecosystem** skills, including a **best practices analysis**, and multiple **reference architectures**.

### Edgemony



#### Cloud Specialist (Marzo 2025)

Obtained after having completed the **AWS re/Start** course at the institute's **AWS Cloud Academy**.

### Hurricane Electric



#### IPv6 Sage (Marzo 2025)

Certifies skills in **managing an IPv6 infrastructure**, such as: **web servers, e-mail servers, DNS forward & reverse**.

## Experience

### • AfkarTelecom (Madrid, Spain)

08/2025 – Present

- Led a **60 server** analysis (Cassandra, Kafka, MongoDB) and presented a **LATEX report** with Grafana/Prometheus graphs to **Arsys** managers
- Served as **keynote speaker** and **technical liaison**, translating technical bottlenecks into **priority actions** and non-technical ones
- Documented each **result** and **recommended fixes** in the report, linking the technical analysis to clear and actionable **recommendations**
- Programmed **follow-up meetings** with **Arsys** managers to examine the report, gather **feedback** and coordinate the next steps for gradual infrastructure updates

# Education

2020 – 2023

## Corporate Information Systems (Sistemi Informativi Aziendali)

ITC Archimede, Modica (RG)

During these years I further developed my **computer skills**, studying & practicing with various **programming languages**, **full-stack development** (front-end & back-end), management of **GNU/Linux servers**, and the protection of these. I graduated as an **Accountant & Computer Expert** (Ragioniere Perito Informatico), with a score of **98/100**.

2018 – 2020

## Administration, Finance & Marketing (Amministrazione, Finanza e Marketing)

ITC Archimede, Modica (RG)

During these years I gave importance to the acquisition of linguistic skills in the English language.

2018

## Cambridge English

During 8th grade I attended the “**Cambridge English**” private school, where I received the **B2** certification.

# Hobbies

## • Homelabbing

I manage a **homelab** with **multiple nodes** that run various services, divided between **public access services**, and **private services**, such as:

- DNS servers (Main, Backup)
- Databases
- Load balancers
- Web servers
- Web analytics
- Node monitoring
- Kubernetes Cluster
- VPN (WireGuard)

## • Learning new technologies

In my free time, I enjoy experimenting with and learning about new technologies, as well as perfecting my existing skills.

## • Omicron Elettronica (Ragusa, Italy)

07/2023 – 10/2024

06/2022 – 09/2022

- Managed **cloud & on-premises infrastructures**
- Used various **cloud providers**, such as AWS, Aruba, DigitalOcean, Vultr
- Managed various **platforms** and **internal tooling**
- **Created** multiple internal tooling
- Worked in close contact with the **Kernel Linux** and correlated tools
- Managed infra via **Ansible**
- Monitoring via **Zabbix**
- Improved infrastructure **efficiency, resiliency, and scalability**

# Skills

## • GNU/Linux:

- Server administration (**Amazon Linux, Debian, Gentoo, RHEL**)
- Automation with **Ansible, Makefile, Cron, OpenRC & systemd** services
- Monitoring with **Zabbix, Grafana/Prometheus, ELK stack**
- Virtualization with **KVM, Libvirt, QEMU**
- IPS/IDS & Firewall: **Suricata, ufw, iptables**
- **Bash & POSIX sh** script creation
- Local DNS server with **unbound**
- Experience with on-premises & cloud **Git repositories**
- **Fail2ban** integration with **AbuseIPDB**
- **Kernel configuration & compilation + initramfs** creation
- **Bootloader** configuration (**GRUB2**)

## • Cloud Computing:

- **High availability**
- Experience with **CloudFormation** (IaC), **CloudFront**, **CloudWatch**, **EC2**, **ELB**, **IAM**, **KMS**, **Route53**, **S3**, **Secrets Manager**, **VPC**, and many others.
- Management of **cloud infrastructures**
- Implementation of **best practices** in various scopes
- Communication between **on-premises & cloud environments**

## • Containers:

- **Docker**: **deploy & monitoring** of containers
- **Kubernetes**: creation of **highly available on-premises clusters**, networking, observability and security setup with **Cilium**, execution of programs and exposing via **Gateway API**

## • Web servers:

- **nginx** configuration & optimization + **eBPF**
- Implementation of **security policies** and **SSL certificates**
- **HTTP2** and **HTTP3/QUIC** (GSO, 0-RTT, Address Validation)
- **Rate-limiting**
- **Content compression**

## • Domain names & DNS:

- **Zone & record** administration
- **DNSSEC** configuration & status checking
- Custom **DDNS client** implementation via **API calls**

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