Matteo Salonia

SysOps & DevOps Engineer

- Born on **8 Dec 2004**
- Living in **Ragusa (RG), Italy**
- Graduated with **98/100**

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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**
German: **A1** (Actively improving)

Biography

I have solid experience with **GNU/Linux servers** & **web development**. Since the age of 13 I have developed a **strong interest in computer science**, dedicating a lot of time to exploring, analyzing, and **understanding the functionalities of operating systems**, **networks**, **websites**, and technology in general. My experience includes **IT infrastructure design**, **system configuration & optimization**, as well as **solving complex problems**.

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**. These experiences have shaped the person I am today, ready to **face new challenges** with **determination** and **passion**.

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 Certified Solutions Architect Associate (Ongoing)

This certification demonstrates skills in **design** & **implementation** of **secure**, **scalable**, **resilient**, and **cost-optimized architectures**, following **architectural best practices**, and translating **business requirements** into **effective technical solutions**.

AWS Certified Cloud Practitioner (February 2025)

This certification demonstrates mastery of **cloud computing** principles. This credential examines the components of the **AWS ecosystem**, including an **analysis** of the **reference architectures**, a **broad range of services**, as well as **established best practices** for **security** and **regulatory compliance**.

Hurricane Electric Certified IPv6 Sage (March 2025)

This certification verifies proficiency in establishing **full IPv6 connectivity**, running a **web server**, maintaining an **email setup**, and managing both **forward** and **reverse DNS configurations over IPv6**.

Experience

- **AfkarTelecom** (Madrid, Spain) **08/2025 – 11/2025**

Here I led a project involving several **large companies**, including **Arsys** and **Krone Group**. The project involved an in-depth analysis of approximately **60 servers**, in both **development** and **production** environments, to improve their **operational efficiency**. I also analyzed **clusters** of various applications, including **Apache Cassandra**, **Apache Kafka**, and **MongoDB**. In the final report of my analysis, written in LaTeX, I also included detailed statistics exported from **Grafana** and **Prometheus** as **graphs**. The report provided a clear overview of the results obtained, highlighting areas for improvement and the impact on existing infrastructure.

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

With **Omicron Elettronica** I was able to explore the world of **alarm** and **video surveillance systems**, while also working with **electrical systems**, **data networks**, **rack cabinets**, and **cable laying**, actively collaborating with different teams. Here I also managed several **cloud infrastructures**, with providers such as **AWS**, **Aruba**, **DigitalOcean**, **Vultr**.

Skills

Over the years I have undertaken a path of **autonomous learning**, which has allowed me to **significantly expand my skills** in **various areas**. Here are some of my skills:

- **GNU/Linux**:
    - **Kernel configuration** & **compilation** + **initramfs** creation
    - **Bootloader** configuration (**GRUB2**)
    - **Server** administration (**Amazon Linux, Debian, Gentoo, RHEL**)
    - IPS/IDS & Firewall: **Suricata**, **ufw**, **iptables**
    - **Fail2ban** integration with **AbuseIPDB**
    - **Bash** & **POSIX sh** script creation
    - Automation with **Ansible**, **Makefile**, **Cron**, **OpenRC** & **systemd** services
    - Local **DNS** server with **unbound**

- **Cloud Computing**:
    - Management of **cloud infrastructures**
    - Implementation of **best practices** in various scopes
    - Communication between **on-premises** & **cloud environments**
    - **High availability**

- **Containers**:
    - **Docker**
    - **Kubernetes**

- **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**

- **Website development**:
    - **Frontend**: HTML, CSS, vanilla JS
    - **Backend**: PHP, Laravel