



Fabrizio Furnari

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IT

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SUMMARY

GNU/Linux System Administrator, Debian enthusiast, I like to be always in touch with new technologies and experiment on new automation technologies. In the meantime I grow activities such music playing and non-profit work.

JOB EXPERIENCE

Sr. System Administrator, Immobiliare.it

Rome, IT — 2016 - Present

Immobiliare.it is the largest Italian real estate website network, a startup incubator and one of the biggest and technologically advanced websites in the area (more than 23M/month visits) with a deep interest in bleeding edge technologies and Open Source. Main tasks in the operations team consists in building and keeping the multi-tenancy infrastructure healthy from the application, network and database point of view, often planning and implementing new architectures or creating tailored tools to help the development/operations workflows.

I'm also the main connection between the operations team and the software development team leaders.

Main projects:

- *Configuration management setup*: setup the configuration management and orchestration from scratch on more than 1k servers (both virtual and physical) with SaltStack. Codebase creation and maintenance, custom modules and integrations, workflow management for process automation. Automatic container images generation for CI/CD, zero-effort integrations for backup and monitoring..
- *New Rome DC setup*: new datacenter requires infrastructural planning for setup, installation and services migration (networking/storage/security/high availability). Large OpenStack cluster installation and setup (multi-tenancy) for internal use and business partners.
- *HTTP2*: planning and migrating existing POS to HTTP2 with minimal downtime. New software stack benchmarking and choosing to be able to serve web pages with nearly-same HTTP performances.
- *New LuxuryEstate US POS*: planning and setup of new US POS for one of the biggest luxury real estate portal. The infrastructure has been redesigned and optimized to leverage the physical to cloud advantages. Geographical sync and replication of main services.

Sr. System Administrator, Trust Italia Spa

Rome, IT — 2015 - 2016

Main tasks consists in upgrading, securing and automating the whole server infrastructure (Debian, RedHat), including PBXes and network appliances. Trust Italia Spa is the biggest italian MPKI provider and one of the most important Symantec partner in EMEA area focusing on certificate management, provisioning and custom software development for customers with unique needing. As sole System Administrator other activities includes daily system maintenance, projects management and software development for internal use.

System Administrator, Venere Net Srl (Expedia INC)

Rome, IT — 2008 - 2015

Setup and install of Ubuntu/Debian/RedHat servers, planning and implementation of development, staging and production environments.

Provisioning and automation procedures with customization and tailoring for unique-setup in order to comply with the software development model (SCRUM).

Clustered systems (HA) installation and configuration for web-oriented infrastructure (Apache, PHP, Tomcat). Performance optimization for both virtual and physical machines.

Planning and setup of mail services, name servers, directory services and software development assistance

Main projects:

- Monitoring
Setup of Open Source software (Nagios, Zabbix...) to monitor hundred of servers and applications. High availability alarm and report system for daily and on-call activities. Interactive real time graphs creation and automation for main applications software. Performance and scalability optimization.
- Configuration management & Provisioning
Kickstart and Debian preseed usage for server provisioning. Extreme time cut for installation and configuration, using also virtualized environment (VMWare ESXi, VMWare vSphere, AWS). Initial planning and development of large provisioning systems with Puppet/fabric.

Technical columnist and reviewer, Programmazione.it

Rome, IT — 2006-2010

Technical post/stories writing on various IT topics for Programmazione.it (lead italian web portal). More than 100 articles and technical (IT/Programming) book reviewer for major publishing houses.

Network/System Administrator, Freelance

Rome, IT — 2005-2008

Network and system administrator for small/medium companies. GNU/Linux (Debian/Ubuntu) server installation and open source software configuration (mail services, DNS, web servers, ...)

Windows workstation installation and configuration.

EDUCATION

High School: "I. Vian"

Bracciano, Rome (IT)

High school leaving qualification in classical and ancient studies — 2004

TECHNICAL SKILLS

GNU/Linux System Administration

Key areas:

- SaltStack
- OpenStack
- Keepalived
- Nginx
- Gitlab
- Redis
- IPVS
- Elasticsearch
- Zabbix
- HashiCorp suite
- HAProxy
- Docker
- AWS
- PowerDNS
- Graphite/Grafana
- Jira
- Puppet
- Ansible
- LXC/LXD
- Python
- Golang
- Sentry
- OpenVPN
- OPNSense
- ESXi/vCenter
- oVirt
- RabbitMQ
- ATS

- Saltstack
Setup, module development, custom formula creations, custom integrations with other software.
- HA cluster
HeartBeat, Pacemaker, Corosync, LVS (Keepalived)
- Cloud services management
ELB/EIP/EC2 instances basic setup/usage. SaltStack automation, HAProxy
- MySQL/Percona
Installation, management, master-slave and master-master replica. Small optimization and tuning.
- Scripting and programming
Python, Golang, Bash, Puppet, Ansible and SaltStack modules
- Development environment setup
Ansible, Vagrant

TEAM AND PERSONAL SKILLS

Good project development skills (planning, presentation). Good team management skills (especially in IT contexts) learned in business and non-profit work (LUG, ArcheOS, ...).

Very good team working skills with inclination towards teaching, very good reporting abilities.

Very good musical skills.

OTHER ACTIVITIES

ArcheOS

ArcheOS is an international project that includes, among the others, a GNU/Linux distribution aimed for archaeologists.

My role in this project begun in 2009 as collaborator and since 2010 I'm in charge for the technical point of view.

Key roles:

- Distribution building and customization using Debian live-build and other software
- Debian packaging
- Architectural decisions
- Continuous integration for in-house development and package testing
- APT repositories creation and maintenance
- Website maintenance
- Dev environments and code repository management
- Communication with users and upstream maintainers
- Development coordinator
- Server administration

OTHER

SabaziaLUG founding partner

Classical double bass learning (solo and orchestra).

Commitment in amateur and professional orchestras also in management roles.

Interested in: field-recording, acoustic ecology

LANGUAGE SKILLS

ITALIAN: native

ENGLISH

Self assessments:

- Comprehension
LISTENING: B2, READING: C1
- Oral skills
SPOKEN INTERACTION: B2, SPOKEN PRODUCTION: C1
- Writing: C1

Certificates:

Level intermediate 1

Issued from "The new British Centre", June 2009

DRIVER LICENSE

European type "A" and "B"

REFERENCES

Available on requests