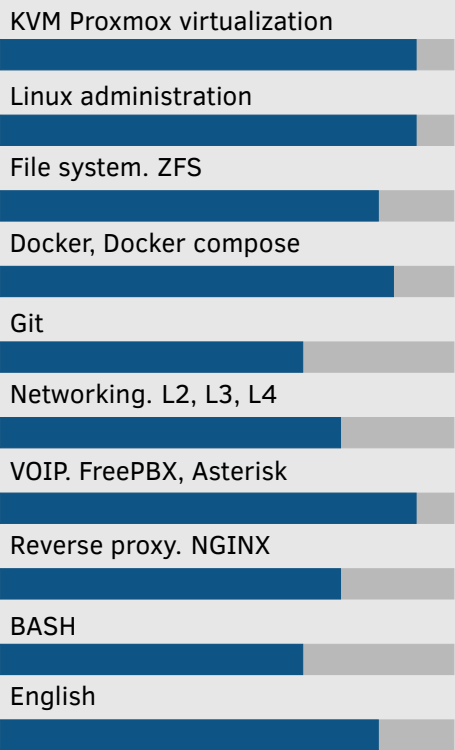# Marco Bertolaccini

SysAdmin - DevOps

- 26 August 1990
- Buenos Aires, Argentina
- +54 336 4336254
- cv.marco.ar
- contacto@marco.ar

About me

Specialist in Linux system administration and KVM virtualization (Proxmox) with paravirtualization through VirtIO drivers. Business grade storage with COW file systems types (ZFS on Linux and BTRFS). Integrations between WHMCS and Proxmox.

Skills

KVM Proxmox virtualization

Linux administration

File system. ZFS

Docker, Docker compose

Git

Networking. L2, L3, L4

VOIP. FreePBX, Asterisk

Reverse proxy. NGINX

BASH

English

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Focus on

Design, plan, implement and validate systems that comply with good operating procedures. Following the Demming cycle (Plan, do, check and act). In order to provide real, concrete solutions, on schedule, taking into account the internal and external contexts for its implementation.

Experience

2023-2024 — SysAdmin and virtualization — Soltia SL. Madrid, Spain
Administration and deployment of VMs on KVM Proxmox. WHMCS integration with Proxmox. Custom templating with Cloud-init VMs initialization. Bash scripting. Reverse proxy with Docker as an endpoint connection manager for noVNC terminals. 360Monitoring implementations. DNS management. Migration of CPanel, Plesk and Direct Admin panels.

2023 — IT consultant — SISU Integración Socio Urbana, Argentina
Advice on dockerfiles and docker compose files generation to Sysadmin and programming sectors. Optimization of Nginx reverse proxy server config with SSL Let's encrypt certificates. Deployment into production of the following apps with Docker compose: Vault by Hashicorp. OpenProject and Nextcloud.

2019-2022 — SysAdmin — Private hospital FNSR, Argentina
Responsible for the design, planning and implementation of: VMs migration to Proxmox KVM cluster; Unify L2 and L3 adoption enterprise grade wi-fi; onpremise VOIP Asterisk Issabel; trunking via E1 gateway; Nextcloud document system with Nginx SSL reverse proxy; Geclisa clinical management system (medical records, medication); LIS LabWin analysis laboratory management system with bidirectional communication to samples analyzers.

2015-2021 — System administrator — UTN FRSN University, LEA laboratory, Argentina
I planned, designed and implemented the IT department from scratch. I also developed the procedures and records based on the requirements of IRAM ISO/IEC 17025 analysis laboratory standards, in compliance with the points related to digital information security and with ISO/IEC 27001. My main contributions were the creation of VOIP systems, networks, CCTV, servers, Linux and Windows OS virtualization with XEN and Proxmox hypervisors. I contributed in obtaining the accreditation supervised by the OAA (Organismo Argentino de Acreditación) in the information systems matters.

2015-2016 — SO Linux Developer — UTN FRSN University, GADIB laboratory, Argentina
Operating system, workflow and toolchain developer. Researched and developed a custom and from the ground up an implementation of a Linux OS made with the Buildroot tool, for an embedded ARM platform. Its purpose was for a medical device, regarding to Otoacoustic Emissions (OAEs) and evoked potentials. This included: OS, libraries, QT GUI framework, utilities and cross compiling toolchains. `www.researchgate.net/publication/309721477`

Education

2015 — Electronic engineering — UTN FRSN University, Argentina

2003-2008 — Electronic technician — E.E.T N°6, Argentina
Design and assembly of electronic circuits. PID control. PIC microcontrollers.

Certificates

- English. EFSET. Reading score 91%. Listening score 84%.
- English. Michigan CCE.
- English. Cambridge PET.
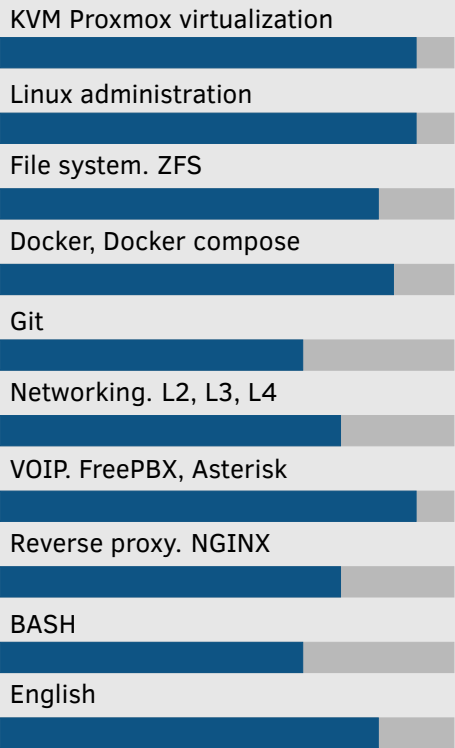
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More info

¿How do i work?

I consider myself a person who constantly strives to meet assigned requirements to the highest possible excellence. Always analyzing situations as a whole, offering improvements to the team and value to the company. I perform each undertaken task based on the best practices according to international standards, yielding maximum effectiveness and efficiency.

In addition, i constantly like to work with feedback from my colleagues, attentive to all opinions, allowing to achieve optimal results. I care about documenting my tasks, as well as my progress into internal company documentation systems.

I enjoy the creation of well planned, deployed and maintained infrastructure, constantly growing and improving, with emphasis on delivering results, while keeping the design simple and efficient.

Publications

2015	Bioinformatics. ICBCBBE. In Silico Analysis of Small Heat Shock Protein Gene Family by RNA-Seq during Tomato Fruit Ripening. (paper accepted code: 15FR010419) ICBCBBE 2015: International Conference on Bioinformatics, Computational Biology and Biomedical Engineering January 2015, Paris, France.International Science. Index vol: 9 No:1 www.researchgate.net/publication/291820831
2014	Bioinformatics. Refereed publication in international journals. CLAIB. Analysis of Small Heat Shock Protein Gene Family Expression (RNA-Seq) during the Tomato Fruit Maturation. IFMBE Proceedings Volume 49 CLAIB 2014. link.springer.com/book/10.1007/978-3-319-13117-7

Congresses

2015	SABI - Bioengineering	San Nicolás, Buenos Aires, Argentina
	Congress SABI (Sociedad Argentina de Bioingeniería). Presentation of otoacoustic emissior.	
2014	CLAIB - Biomedicine	Paraná, Entre Ríos, Argentina
	Congress CLAIB (Congreso Latinoamericano de Ingeniería Biomédica). Presentation of otoacoustic emissior.	
2014	SASE - Sistemas Embebidos	CABA, Buenos Aires, Argentina
	SASE (Simposio Argentino de Sistemas Embebidos). Presentation of otoacoustic emissior.	
2013	A2B2C - Bioinformatics	Rosario, Santa Fe, Argentina
	Congress A2B2C (Asociación Argentina de Bioinformática y Biología Computacional). Workshop of molecular dynamics GPU accelerated with CUDA.	