
Nicolás Marguglio

✉ nicolas.marguglio@gmail.com —  [azimut](#)

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about me

I spend most of my professional career maintaining and designing high-scalable Linux systems. More recently, I have been learning how those systems are built from the programming side.

admin skills

Tools	emacs, git, tcpdump, nmap, docker, ansible
Servers	Apache, Nginx, Kubernetes, qemu, dnsmasq, qmail, postfix, dovecot
DB	mysql, postgres, elasticsearch, redis, OpenLDAP
OS	Gentoo, Red Hat

programming languages

Advanced	common lisp, bash
Intermediate	golang, sql
Previous Experience	erlang, c, javascript, typescript, python, perl, php, glsl, clojure, rust, ocaml, lua

idioms

Spanish	Native
English	Upper Intermediate

job experience

Email Hosting Software Engineer III — Web.com

2017-2018

- Worked on the conversion of a Qmail based mail platform from Gentoo to Redhat.
- Created rpms/spec files.
- Worked on the development of a replacement for Qmail on the platform with a solution based on Dovecot.
- Implemented a logging solution based on Fluentd, Kafka and Postgres. To identify bad actors and blacklist them accordingly.
- Worked on optimizing current web performance, adding cache layers and investigating new load balance solutions.

Web Hosting Software Engineer II — Web.com

2014-2016

- Continuing to work on customer support escalation.
- Worked on wordpress multinetwork hosting platform, based on nginx and percona cluster (mysql).
- Packaging and maintaining all the software related to the Gentoo based shared hosting platform.
- Maintaining the in-house configuration management tools and related PXE servers and custom kernel build.
- Worked on the development of a nginx based proxy for SSL-termination. Developed in Lua scripts and redis.
- Deployed a Kubernetes cluster for development of internal applications.

Web Hosting Software Engineer I — Web.com

2011-2013

- Troubleshooting customer issues on a Unix shared web hosting platform.
- As the last level of support I was responsible of understanding in depth the issue and finding the root cause of it.
- Which consisted of coding issues on the cx code, bad configuration on the server side or missing software configurations.

Jr. Linux System Administrator — Sols S.A.

2011

- Network design and deploy of a OpenVPN node and squid proxy. Maintenance and technical support.

education

Professional Penetration Tester	Base4 University	2015
Red Hat System Administrator I	IT Collage	2014
Systems Engineer	UTN - Incomplete	2010-2011

personal projects

[CV](#) This CV, written in LaTeX, build and published through Github Actions

React

- Golang + Typescript [app](#) to search through IRC logs, reading them from a postgres database.
- Typescript [app](#) to generate an image and video gallery from a Reddit page.

Common Lisp

- Several game [engines](#) based on OpenGL
- Wrappers for [multiple 3rd party C](#) libraries
- Multiple [audio](#), [video](#) and [midi](#) sequencers

Gentoo Linux

- A Portage [repository](#), to build 3rd party software.
- [Minimal](#) and target [specific](#) Docker images, using different libc's and Github Actions to build.

Golang

- RSS feed generators, for [twitch](#) and [github](#).
- Command line clients to view comments on [imageboards](#), [reddit](#), [hackernews](#), [twitter](#).
- IP address [metadata](#) gatherer, asking different cloud providers and WHOIS.

Bash

- Integrate several OSINT [tools](#) for automatic recon. Postgresql backed.
- HTML [scraper](#). Downloads wallpapers from 10 different sites.

Erlang

- Public DNS record [monitor](#).

C

- System [monitor](#) using 'upower', 'x11', and 'postgres' libraries to record system state changes.