# Rafael Dutra

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## Personal Statement

14+ years of experience in Information Technology, Network Administration, Infrastructure analysis, working especially with [GNU/Linux]().

3+ years working with [PHP]() development and [Laravel]().

In the last 5 years, I've been working mainly on Infrastructure automation ([Infra as Code]()) and containerization with [Docker]().

## Work Experience

### [DBServer]() (https://dbserver.com.br) - DevOps Engineer

Technology company - Porto Alegre/RS. May/2019 - current

Working on site for [Sicredi]().

- Full cicle automation using [Packer](), [Terraform](), [Ansible]() for AWS with [Gitlab]()).
- Blue/Green environments on [AWS]().
- Ansible Roles for Kubernetes cluster multi master strategy.
- Hashicorp [Consul]() and [Vault]()
- Metric collection for Hashicorp [Consul]() using Spring Boot.
- TDD (Test-driven development) for Ansible Roles.

### [Stefanini | IT Solutions and IT Staffing]() (https://stefanini.com) - DevOps Engineer

Technology company - Porto Alegre/RS. Aug/2018 - May/2019

- Deployment and infrastructure automation using ([Docker](), [Docker Compose](), [Bash](), [Terraform](), [Ansible]() [Puppet]()) and [Cloud-init]().
- [AWS]() ([Elastic Cloud Computing (EC2)](), [Elastic Block Storage (EBS)](), [Relational Database Service (RDS)]()).
- Document internal tools used at [AWS]().
- [Continuous Integration]() ([Git](), [Gitlab]())
- [Created modules for Terraform to manage records at AWS Route 53 (DNS)]()
- [Created modules for Terraform to manage zones at AWS Route 53 (DNS)]()

### [Jive Software]() (https://jivesoftware.com)

Jive Software is now a part of [Aurea Company]() (https://aurea.com) Technology company - Portland - Oregon - United States. Jan/2018 - Jul/2018

Working remotely as independent contractor for [Crossover]().

My main goal was to reduce cost at [AWS]() and learn internal tools used in the company to provide support.

- Deployment and infrastructure automation ([Docker](#), [Docker Compose](#), [Bash](#) and [Puppet](#)).
- Internal support tools.
- [AWS](#) ([Elastic Cloud Computing (EC2)](#), [Elastic Block Storage (EBS)](#)).
- Documentation of internal tools used at [AWS](#).
- Documents processes and procedures required.
- Job Scheduler ([Rundeck](#)).
- [Continuous Integration](#) ([Git](#), [Bitbucket](#), [Jenkins](#))
- Logs and metrics monitoring ([Datadog](#) and [Flapjack](#)).

## [PoaTek IT Consulting](#) (http://poatek.com)

Technology company - Porto Alegre/RS. Oct/2016 - Jan/2018

Working on site for [AGCO (Agriculture Corporation)](#).

### AGCO - IT Specialist

- Deployment and infrastructure automation ([Docker](#), [Docker Compose](#), [Bash](#) and [Puppet](#)).
- Continuous integration ([Git](#), [Bitbucket](#), [Bamboo](#)).
- Logs and metrics monitoring ([Elasticsearch, Logstash, Grafana](#) + [Telegraf and InfluxDB](#)).
- Environment automation development ([VirtualBox](#), [Vagrant](#), [Packer](#), [Linux](#), [Preseed](#)).
- Job Scheduler ([Rundeck](#)).
- Build tools ([Gradle](#) and [Apache Maven](#)).
- Linux server administration ([Ubuntu Server](#)).
- Documents processes and procedures required for developers.
- Learns new applications and functionalities as required.
- Participates in special projects, usually involving implementation of a new tool or application.

### AGCO Projects

**Puppet - Configuration Management** This project was developed from scratch, since the creation of a functional environment in localhost to developers and operator could recreate the whole infrastructure managed using [Puppet](#), until it get to the environments, like development, staging and production.

Documentation of process, like:

- Mounting points
- Create new environments
- Code deployment by operators in production with puppet apply command, using [Continuous Delivery](#)
- Create new machines with specific modules
- Code deployment with [r10k](#)
- How to create new [Puppet](#) servers using [Puppet](#)

Developed codes:

- [Spring Boot module (Java)](#).
- Structural Scripts for nodes in format [YAML](#) written in [Ruby](#).
- [Shell Scripts](#) to install agents and configure it.

Tools like [Vagrant](#), [Shell Scripts](#) in [Ruby](#) were the great pillars for the project become viable.

All the developed code to automate environment was thinked in how to bring benefits for operators and development team.

**Oracle automation using Docker for development** In this case, the demand was build a tool for developers creating scripts for Oracle, where those scripts had to pass for some pipelines until it get to production using Bamboo (Continuous integration tool).

**Bamboo using Docker** Many of our projects used [Docker](#) for build the application developed by other companies. Our main problem was to create the same environment used in development to production like plugins and packages dependencies.

[**Shell Scripts**](#) **environments** In some cases, we could not use some tools for configuration management, so I wrote scripts for environments to install and configure some tools, like: [Nginx](#), [CouchDB](#), [Spring Boot module (Java)](#) environment, [ActiveMQ](#).

## Education

- 2017/1 – Information Technology Security UNISINOS - São Leopoldo/RS. Not completed.

- 2010/1 – 2011/2 – Network Computers Centro de Tecnologia em Automação e Informática, Florianópolis/SC, SENAI/SC. Not completed.

- 2008/1 – 2009/1 – Information Technology Security UNISINOS - São Leopoldo/RS. Not completed.

- 2004/1 – 2007/1 – Network Computers Certificate Escola Estadual de Educação Profissional em Estrela, Estrela/RS. Finished.

## Languages

- Intermediate English for writing and speaking.
- Advanced English for listening and reading.

## Courses

- 2019/2 - [2º FOSSDay Bento Gonçalves](#) - Bento Gonçalves/RS.
- 2019/2 - [2º FOSSDay Lajeado](#) - Lajeado/RS.
- 2018/2 - [Docker Crash Course for busy DevOps and Developers](#) - Udemy
- 2018/2 - [DevOps Foundation](#) - Estabilis - São Paulo/SP.
- 2018/2 - [AWS hands on](#) - Estabilis - São Paulo/SP.
- 2017/1 - [Puppet Fundamentals](#) - Instruct - São Paulo/SP (24 hours) - [Agenda](#).
- 2012/2 - Lean Software Development - WildTech - Porto Alegre/RS.
- 2011/2 - Accessing the WAN - Cisco Networking Academy - Florianópolis/SC
- 2011/1 - Lan Switching and Wireless - Cisco Networking Academy (recommendation letter) - Florianópolis/SC.
- 2010/2 - Routing Protocols and Concepts - Cisco Networking Academy (recommendation letter) - Florianópolis/SC.
- 2010/1 - Network Fundamentals - Cisco Networking Academy (recommendation letter) - Florianópolis/SC.

## Presentations

- 1º Google Developers Group em Lajeado - Ansible automation - Lajeado/RS.
- 1º Google Developers Group em Lajeado - Cloud resources automation using Terraform - Lajeado/RS.
- 3º CloudUp - [Infraestrutura como código com Terraform](#) - Porto Alegre/RS.
- 2º FOSS Day Bento Gonçalves - [Infrastructure as code - Terraform](#) - Bento Gonçalves/RS.

- 2º TcheLinux Lajeado - Introdução ao Docker - Lajeado/RS.

## Workshops

- 1º FOSSDay Lajeado - Docker Workshop - beginner and intermediate.
- 1º FOSSDay Bento Gonçalves - Docker Workshop - beginner and intermediate.

## Terraform Modules

- Digital Ocean Droplet
- Digital Ocean Project

## Ansible Galaxy

- Google Chrome Role
- Github repository
- Travis

## Vagrant Boxes

- Debian 8.8.0 amd64 Docker CE
- Debian 8.6 amd64 Docker

## Docker Hub images

- Docker Ansible
- Github repository
- Docker Terraform
- Github repository
- Docker Ansible
- Github repository

## Events/Conferences

- 2019/2 - 2º FOSSDay Lajeado - Lajeado/RS.
- 2018/2 - Kinghost Connection - Online.
- 2018/2 - 1º FOSSDay Bento Gonçalves - Bento Gonçalves/RS.
- 2018/2 - DevOpsDay - Agenda - Porto Alegre/RS.
- 2018/1 - Google Onboard - Porto Alegre/RS - Agenda
- 2018/1 - 1º FOSS Day Lajeado - Lajeado/RS.
- 2017/2 - The Developers Conference - DevOps - Porto Alegre/RS.
- 2017/2 - The Developers Conference - Containers - Porto Alegre/RS.
- 2017/2 - DevOpsDay - Agenda - Porto Alegre/RS.
- 2017/1 - 2º TcheLinux Lajeado - Lajeado/RS.
- 2016/1 - 1º TcheLinux Lajeado - Lajeado/RS.
- 2010/2 - 5º Solisc - Congresso Catarinense de Software Livre - Florianópolis/SC.
- 2010/1 - 11º Fórum Internacional de Software Livre (FISL) - Porto Alegre/RS.
- 2009/1 - 10º Fórum Internacional de Software Livre (FISL) - Porto Alegre/RS.
- 2008/1 - 9º Fórum Internacional de Software Livre (FISL) - Porto Alegre/RS.
- 2007/1 - 8º Fórum Internacional de Software Livre (FISL) - Porto Alegre/RS.
- 2006/1 - 7º Fórum Internacional de Software Livre (FISL) - Porto Alegre/RS.

## Meetups

- 2019/11/15 - (1º Google Developers Group em Lajeado)[https://www.meetup.com/pt-BR/GDG-Lajeado/] - (https://gdglajeado.dev/)[https://gdglajeado.dev/]
- 2019/12/04 - [Cloud Native POA](#) - Zenvia - Porto Alegre/RS
- 2019/05/30 - [Lançamento da Comunidade Cloud Native POA](#) - Zenvia - Porto Alegre/RS
- 2018/05/30 - [14° Docker Meetup](#) - SENAC - Porto Alegre/RS
- 2017/07/26 - [Microservices and Docker](#) - PUC - Porto Alegre/RS
- 2017/06/20 - [10º Docker Meetup](#) - PUC - Porto Alegre/RS
- 2017/02/09 - The news about Docker 1.13 - PUC - Porto Alegre/RS
- 2017/01/16 - 12º Continuous Delivery - PUC - Porto Alegre/RS

## Podcasts (Portuguese)

- [Opencast Reboot, FOSSDay e notícias](#)

## Videos on Youtube

- [Playlist Docker](#) (Portuguese content)
    - [Docker Swarm](#) (Portuguese content)
    - [Docker Compose](#) (Portuguese content)

## Publicações

- 2020/01/07 - https://blog.4linux.com.br/introducao-ao-terraform/
- 2020/01/16 - https://blog.4linux.com.br/terraform-parte2-alterando-sua-infraestrutura-de-forma-incremental/
- 2020/01/30 - https://blog.4linux.com.br/terraform-parte3-criando-dependencias-entre-recursos/
- 2020/02/29 - https://blog.4linux.com.br/terraform-parte4-criando-modulos/
- 2020/03/17 - https://blog.4linux.com.br/terraform-parte5-versionando-a-sua-infraestrutura/
- 2020/03/24 - https://blog.4linux.com.br/terraform-parte-6-utilizando-modulos-com-outros-modulos/