

# 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) (<https://dbserver.com.br>) - DevOps Engineer

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

Working on site for [Sicredi](#).

- Full cycle 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) (<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) (<https://jivesoftware.com>)

[Aurea Company](https://aurea.com) (<https://aurea.com>) Technology company - Portland - Oregon - United States. Jan/2018 - Jul/2018

- 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) (<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 - [10° Docker Meetup](#) - PUC - Porto Alegre/RS
- 2017/02/09 - The news about Docker 1.13 - PUC - Porto Alegre/RS
- 2017/01/16 - 12° 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-parte6-utilizando-modulos-com-outros-modulos/>