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 frameworks 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

The main goal is to bring new customers using automation (Continuous Integration and Continuous Deployment/Delivery) and Cloud Computing.

- 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/