Rafael Dutra

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Personal Statement

13+ years of experience in Information Technology, Network Administration, Infrastructure analysis, working especially with GNU/Linux.

3+ years working with PHP development and frameworks (Laravel and Codeigniter), Vagrant, Bower, Composer and Git.

In the last 2 years, I've been working mainly on Infrastructure automation (Infra as Code) and containerization with Docker.

Work Experience

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 - Present

Working remotely as independent contractor for Crossover.

My main goal was to work on cost reduces at AWS and for that I had to learn internal tools to know what to do.

- Deployment and infrastructure automation (Docker, Docker Compose, Bash and Puppet).
- Support internal tools.
- AWS (Elastic Cloud Computing (EC2), Elastic Block Storage (EBS)).
- Documented 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 and Confluence)
- Logs and metrics monitoring (Elasticsearch, Logstash, Grafana + Telegraf and InfluxDB).

- Development environment automation (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 agent 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 it, 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 create scripts for Oracle, where this scripts have to pass for some "pipelines" until it get to production using Bamboo (Continuous integration tool).

Bamboo using Docker
Many of our projects uses Docker for build the application developed by other companies. Our main problem was to have 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 build scripts for environments to install and configure some tools, like: Nginx, CouchDB, Spring Boot module (Java) environment, ActiveMQ.

Dev4you (http://dev4you.com.br)

Technology Company - Porto Alegre/RS
Aug/2015 - Sep/2016

- Cloud Services (Google Cloud, Amazon Web Services and Digital Ocean).
- DNS management. Shell Scripting (advanced level) to automate tasks. Internal micro applications development with PHP.
- Platform backups using Rsync and Bacula.
- Docker containers tests for use in production and management configuration with Ansible and Puppet.

Toshyro.net Processamento de dados Ltda (http://toshyro.net)

Development Company - Lajeado/RS
Apr/2014 - Dec/2014

- Systems development in PHP with CodeIgniter Framework and MySQL databases. Jquery/Jquery Mobile.
- Cloud Servers Administration and internal virtualization to host homologation projects.

Education

- 2017/1 – Information Technology Security
  UNISINOS - São Leopoldo/RS. Current course.

- 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

- 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.

Lectures

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

Workshops

- 1º FOSS Day Lajeado - Docker Workshop - beginner and intermediate.

Vagrant Boxes

- Debian 8.8.0 amd64 Docker CE
- Debian 8.6 amd64 Docker

Docker Hub images

- Docker Ansible
- Docker Terraform
- Docker Ansible

Events/Conferences

- 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

- 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

Videos on Youtube

- Playlist Docker (Portuguese content)
  - Docker Swarm (Portuguese content)
  - Docker Compose (Portuguese content)
- Microsoft has acquired GitHub and look what happened (Portuguese content)
- OpenCast 89 - Tchelinux, Free Software and Photography, with Rafael Jeffman. (Portuguese content)