Johandry Amador

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SUMARY

Currently working as DevOps Engineer and Go Developer of CLI and microservices with Docker and Kubernetes, automating infrastructure provisioning and configuration. Developing and automating tasks for more than 15 years. Go passionate developer and love to containerize everything for more than 5 year. More than 15 years of experience in Unix administration and Unix development (Shell, Perl & Python) for several 500 Fortune companies. Always working or looking to work on a challenging and rewarding position where I can continue learning and using all my knowledge.

SKILLS

Programming, Scripting and other Languages

Go (Golang), Shell (Bash), Perl, Python, Ruby, Java Script, HTML5, JSON, YAML, CSS.

Frameworks, Runtime Environments and Development Tools

Rails, Flask, JQuery, Angular, Covalent and NodeJS.

Configuration Management and DevOps Tool

Terraform, Vagrant, Packer, Ansible, Puppet, Jenkins and Git.

Clouds, Infrastructure Managers and Container Engines

Kubernetes, Swarm, Docker, Docker Compose, AWS, VMWare, OpenStack, OpenShift, Helm, Azure (basic) and Google Cloud Platform (basic)

Networking and SysAdmin tools

F5, Zabbix, Nagios and CA Autosys.

Database

Presto, SQLite, MySQL and MongoDB.

Middleware

Apache Web Server, Tomcat, JBoss and Glassfish.

Systems

Linux (RedHat, CentOS, Ubuntu, Debian, SUSE, CoreOS), Unix (HP-UX, OS X) and Windows.

Soft Skills

Scrum, Kanban and Project Management including: Remotely and On-site coordination of more than 30 teams top in different countries, People Management 1:12, Metrics Reviews, Risk Management, Process Management, Change Management, Release Management, Incident and Problem Management, Planning and coordination of System Integration Tests and UATs, Retailing processes, basic Logistics process and basic.

Other

MS Project, HP Quality Center, ServiceNow, JIRA and Single Sign On.

Professional Experience

Teradata, San Diego, CA, USA   2016-Present
DevOps Engineer & Go Developer
Responsibilities:
- Development of a CLI application in Go (Golang) to install Kubernetes on different platforms such as AWS, Azure, OpenStack, VMWare and Baremetal. Was used Cobra for the CLI, Viper for configuration and Logrus for logging.
- Migrate from monolithic CLI to microservices using Go and gRPC/HTTP API.
- Development of Kubernetes client in Go to create and update any object/resource out of the cluster.
- Using the Terraform (binary) and the Terraform Go code to provision the infrastructure for Kubernetes. Using Terraform Go package to build a binary in Go to do the provisioning, so no dependencies.
- Using Ansible to install & configure Kubernetes. The Ansible roles are send to the hosts and executing Ansible playbook remotely with Go. Was made an Ansible plugin to send the output to a Go client on the user side.
- Generation of TLS certificates and keys for Kubernetes using Go.
- Installing, configuring and supporting Kubernetes on different platforms. Includes support to development and administration level.
- Development of Event-driven Configuration Management in Go, a CLI application using the Serf Go code.
- Using Docker, Kubernetes and Docker Compose to create cluster of Microservices made in Go.
- Integration of CI/CD Jenkins pipelines in the development projects.
- Using Packer and Ansible to create AWS images (AMI).
- Using Molecule to develop and test Ansible roles with Goss on Docker.

- Develop AWS Cloudformation templates and Terraform templates to create EC2 instances, networking, security groups, autoscaling groups, ECS, S3, Route 53 resources and EKS cluster.
- Develop Terraform templates to create VMs, storage, networking on VMWare and OpenStack.
- Develop Terraform template to AKS cluster on Azure.
- Working with Presto to make it available on different platforms such as AWS, Azure and Kubernetes.
- Working on Agile development team using Jira, Github and Jenkins.
- Application and processes documentation in Markdown.
- Development of Makefiles to automate all processes.

Freelance Software Developer, San Diego, CA, USA   2018-2018
Kubernetes Administrator & Developer
Responsibilities:
- Migration of semi-monolithic application to microservices on Kubernetes running on AWS
- Development of Docker container for microservice running React application on Nginx
- Setup of several Kubernetes services on AWS integrated with Route53 and TLS certificates
- Setup of ECS to store the developed Docker containers.
- Create a local development environment using Docker Compose
- Development of Docker containers running PHP applications
- Development of Docker containers running Go code, OpenCV, Caffe and Tensorflow
- Setup of Kubernetes nodes (CoreOS) for GPU Nvidia using Cloud-config
- Setup of Kubernetes logging using Elasticsearch, Logstash and Kibana (ELK)
- Development of ConfigMaps for the application configuration
- Support during warranty period to Kubernetes at development and administration level.
- Application and processes documentation in Markdown.
- Development of Makefiles to automate all processes.

FICO, San Diego, CA, USA   2015-2016
DevOps Engineer
Responsibilities:
- Development of Puppet modules with Hiera, r10k and Jenkins for continue integration and continue deployment of managed products and related services.
- Control of version and repository management with BitBucket and Git.
- Use of Foreman, Foreman API and Vagrant to lifecycle management of virtual servers in Non-Production environments on VirtualBox and vSphere.
- Task automation, service management and application deployment using Bash scripting, Puppet modules with Hiera and Jenkings.
- Use of Docker and OpenShift to manage micro services for development and testing.
- Server virtualization management and basic storage management with vSphere.
- Use of Packer to generate images to be used with Vagrant on VirtualBox and vSphere.
- Ownership and support of 7 Products with 3 layers in Non-Production environments.
- Design of Infrastructure Diagrams, creation of Bills of Materials (BoM) and validation of Software Architecture Document (SAD).
- Administration of JBoss and Glassfish, manually and with Puppet.
- Use of F5 to configure load balance and high availability.
- Creation and management of VIP with NPM and F5. DNS management with Infoblox.
- Single Sign On configuration with OKTA with the OKTA Console and at the application side, manually and with puppet
- Zabbix and Keynote configuration for monitoring and reporting of every server and service in Production and Non-Production environment and on the 3 layers.
- Configuration of SSL/TLS in every application layer and configuration of mutual authentication, manually and using puppet.
- Management, manually and with puppet, of: MySQL, CouchBase, ElasticSearch, Vertica, Jasper, Apache Web Server, Apache MQ, Apache Tomcat.
- Installation and configuration on the server side (UNIX) of Vormetric.
- Installation and upgrade of Tableau Server.
- Use of ServiceNow for incident management, change control and task management using Visual Task Boards and KanBan system.
- Documentation of processes as well as scripts on Jive and git server (Markdown).

Global HITSS, Aguascalientes, Mex.   2013-2015
Senior System Administrator and UNIX Developer (Perl, Bash, Ruby & Web)
Worldwide Attended Business: **Amdocs**, **AT&T** and **Yellow Pages**.
Responsibilities:
- UNIX developer in Perl and Bash to automate UNIX Admin tasks.
- Perl developer of Web and RESTful Application (backend) using Dancer2 framework with MySQL and MongoDB. All these using Packer, Vagrant and Docker.
- Web developer (frontend) using AngularJS, JQuery, Bootstrap, HTML5, CSS and JS. All these using Yeoman, NPM, Bower, Grunt and NodeJS.
- Build and Configuration Management of development/testing environments with Docker, Fig (former Docker Compose), Packer, Vagrant and Puppet on VirtualBox running on Windows and Mac and AWS.
- Deployments to multiple servers in testing and production environments using Jenkins, Git and Docker.
- Documentation and Configuration Management of 200+ servers with Puppet, Git, Hiera and Hiera-eyaml.

- Development and Maintenance of a Job Scheduler application, a critical enterprise application - similar to Autosys - to transfer remote files and execute remote commands. The transfers and executions are triggered by a schedule or the existence of a file (file watcher). The application can be executed form CLI or Web. The backend was developed in Perl on Dancer with a Database in MySQL and Bash scripts. The frontend was developed using HTML5, CSS, JS, JQuery and Bootstrap.
- Development and Maintenance of Web Application to centralize UNIX Admin tools and reports. This is a CLI and Web Application to collect and present reports of System Patches, Netapp differences, Nagios monitoring dashboard, Servers Inventory using Facter and others, the application is continuously growing. The backend is a RESTful application developed with Perl, Dancer2 using Moo (Perl Object Oriented), Bash and storing data on MongoDB. Use of JSON files to transfer data to the frontend, which was developed with AngularJS, JQuery, Bootstrap, HTML5, CSS & JS. A second and improved version of this application was done using MEAN instead of LAMP. Using NodeJS with Express in the backend connected to MongoDB to store all the servers' data. The backend is a RESTful application as well to provide data to the frontend developed with AngularJS, Bootstrap and HTML5.
- Migration of 100+ servers and applications to the IBM cloud infrastructure (SoftLayer) using Puppet and Git to document and configuration management.
- Sys Admin activities such as Storage Management with NetApp, Server Virtualization Management with VMWare and General Sys Admin tier/level 1 tasks.
- Systems Administrator (Windows, RedHat ES and HPUX)
- On-Call service non-business hours every 6 weeks.

Softtek Information Services, Aguascalientes, Mex.   2004-2013
Technical Leader of Production Control Team, Senior System Administrator, Middleware Administrator, UAT Program Manager, QA Manager, Program Manager, Project Manager, Technical Manager and Infrastructure Architect
Worldwide Attended Business: **Wal-Mart**, **Electronic Arts**, **Burger King** and **General Electric**.
Responsibilities:
- Systems Administrator (Redhat ES, HP-UX, CentOS and Windows 8) of +100 virtual and bare metal servers.
- Active participation in a Datacenter Migration. Accountable for Autosys servers and service.
- Project Manager in Electronic Arts of Global Data Centers Migrations of games, based on Blaze technology, to QA and Production environments.
- Middleware Administrator (Apache HTTP 2, JBoss 5 and 6).
- Development of Perl, Shell (Bash) scripts, Ruby, C# and PowerShell (Windows) to automate SysAdmin tasks and Autosys tools.
- Development of an Inventory web application (Ruby on Rails) to store Servers, Applications, Services, Owners and their attributes with an easy search and relationship among them.
- SSO enable applications using CA Siteminder.
- Troubleshooting of incidents with Apache Web Server, Proxies, SSO Siteminder, client side (JS, cookies, etc…), and applications running on JBoss.
- CA Autosys Administrator and System Administrator of 12 servers running Autosys agents.
- Autosys Jobs scheduling and troubleshooting of jobs for Windows and UNIX scripts, SAP, Informatica and Hyperion.
- Management of the cross-training of the Production Control team members.
- Development of plugins in Perl and Python for Nagios and Cactis to monitoring the Game Servers in Electronic Arts.
- UAT Program Manager: Remotely (from Mexico) and on-site (from Brazil) planning, execution and control of the UAT to integrate Brazil SE Stores to Wal-Mart Systems.
- Program Manager: Remotely (from Mexico) and on-site (from US) coordination of 33 teams in US, Mexico and Central America (Costa Rica, Nicaragua, Guatemala, Honduras and El Salvador) to integrate Stores and Distribution Centers to Wal-Mart systems from these 5 countries. Includes Development, System Integration Test and UAT's.
- The platform and technical distribution of the teams in all these projects were: 50% of the teams UNIX based, 30% of the teams Mainframe based and 20% of the teams functional.
- Hands-On on many UNIX technical issues and technical coordination on Mainframe technical issues.
- Planning, control and execution of technical and data environment setup for all the tests: SIT and UAT.
- Project Technical Manager 1:7.
- Definition, documentation, implementation and management of all the ITIL Processes.
- Development of a CMDB application to keep the inventory of the infrastructure of the project (servers, OS, services, applications, users, etc…) with Ruby on Rails
- Infrastructure Architect in charge of the Design and Implementation of the entire infrastructure of SUN Identity Manager Infrastructure (IdM) and Verdasys Digital Guardian at GE Commercial Finance.
- Install and use of monitoring applications such as Big Brother and Nagios for the monitoring of UNIX servers and services to prevent in advance incidents.
- UNIX scripting development in Bash, Perl and Ruby (Web and CLI) to automatize process for Release of code, Access Control, QA, Monitoring and Services Administration, reducing the work man hours and improving the processes.

EDUCATION

B.S., Computer Sciences,
Havana University, Havana, Cuba
4.34/5.00 GPA

2000

Puppet Professional Certification
License PCP204-0090

2016

Docker Certified Associate
License 11632820

2018

LANGUAGES

- Spanish 100% Native Speaker
- English 90% Very Good

Bilingual Spanish-English