**Bharath Puvvada**

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**SUMMARY:**

* Highly motivated DevOps Consultant with around 7+ years of experience in Linux/Unix Administration, Configuration Management, Continuous Integration, Continuous Delivery/ Deployment, Release Management and Cloud Implementations
* Experienced in **deploying, managing**, and **operating scalable, highly available,** and **fault tolerant systems on AWS**
* Experienced in Cloud automation using **AWS Cloud Formation templates, Python, Ruby, Chef, Puppet, Vagrant**
* Expertise in DevOps, Release Engineering, Configuration Management, Cloud Infrastructure, Automation. It Includes **Amazon Web Services(AWS), Ant, Maven, Hudson, Jenkins, Chef, SVN, Git, TFS, SonarQube, Jfrog Artifactory, Nexus** etc.
* Experience in maintaining centralized Build Servers for multiple applications, achieved DevOps outputs by automating infrastructure and deployments
* Worked on multiple deployment strategies using **Continuous Integration (CI) and Continuous Delivery (CD)** Pipelines and configuration management tools with remote execution to ensure zero downtime and shortened deployment cycles via automated deployments
* Strong experience with **Open Stack Cloud**
* Experience with **migration to Amazon web Services (AWS)**
* Strong hands on experience with scripting languages like **Python, Ruby, PowerShell**
* Experience in managing multiple environments such as DEV, UAT and PROD for various releases and designed instance strategies
* Worked with **DOCKER** and **Vagrant** for different infrastructure setup and testing of code.
* Experienced in installing, configuring, managing and monitoring tools such as **Splunk, Nagios**
* Experience on Web APIs, REST, XML, JSON, SOA/Web services, Internet/network security standards
* Good knowledge of the following: DNS, DHCP, TCP/IP, UDP, LDAP, SSH
* Experience in writing **Chef Cookbooks** and recipes to automate the deployment process and to integrating Chef Cookbooks into Jenkins jobs for a continuous delivery framework
* Experience in installation and configuration of Apache server
* In-depth knowledge in all phases of the Software Development Life Cycle (SDLC)
* Experience in Creation and managing user accounts, security, disk space and process monitoring in Ubuntu and Red Hat Linux
* Proficient in defining, communicating and fulfilling the project’s goal and breaking complex issues into manageable parts
* Capable of handling multiple tasks and work efficiently both in a group and as an individual to meet deadlines
* Strong interpersonal and teaming skills - ability to set and enforce process and influence

**Technical Skills:**

| Build and Configuration Tools | ANT, MAVEN, Gradle, Chef, Ansible, Puppet, Vagrant, Docker, Nexus, Artifactory |
| --- | --- |
| Version Control Tools | GIT, Subversion, CVS |
| CI tools | Jenkins, Bamboo, Hudson |
| Cloud Computing Amazon | EC2, VPC, ELB, EBS, SNS, Cloud Watch, S3, Cloud Trail, IAM |
| Programming / Scripting Tools | C, Perl, Shell, Ruby, Python, Bash, HTML, XML, MySQL, Unix shell scripting |
| Operating System | Windows, LINUX, UNIX |
| SDLC | Agile, Waterfall |
| Tracking / Monitoring Tools | Nagios, Jira, Splunk |
| Infrastructure as service | AWS, Openstack |
| Application/Web Servers | Tomcat, JBoss, Apache, Web logic, Web Sphere |

**PROFESSIONAL WORK EXPERIENCE:**

**Client: Health Partners, Bloomington, MN January 2017 – Present**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* Installed and Configured **Master Slave architecture** to improve the Performance of Jenkins
* Created end to end **CICD Pipeline** for application and API's. Implemented continuous integration using **Jenkins, GIT, Maven, SonarQube, Nexus, Chef, AWS Cloud Formation Template**
* Created **CloudFormation Templates** to **setup and build AWS infrastructure** with resources like **VPC, EC2, S3, ELB, IAM, Security Groups, Auto Scaling and RDS automatically**
* Designed and Developed **Chef cookbooks** for automating Jenkins, Artifactory and SonarQube infrastructure
* Designed and implemented internal best practices, cookbooks, and automated cookbook with CI and CD system. Made use of Jenkins for **Chef CI**
* Deployed and configured **Chef Server** and **Chef Solo** including bootstrapping of chef client nodes for provisioning
* Managed Chef Cookbooks to automate system operations and AWS Cloud management
* Handled multiple AWS accounts with different VPC's for Prod and Non-Prod, where key objective included automation, build out, integration and cost control
* Involved in developing custom scripts using Python, Shell (bash), PowerShell to automate jobs
* Created AMI images of critical ec2 instances as backup using AWS CLI and GUI
* Developed build and deployment processes for Pre-production environments
* Working closely with Project Managers/Developers to discuss code merges, configuration release scope and to perform a successful release
* Managed the GIT branching strategy for a few applications by creating Release and Development Branches
* Worked on virtualization environments like Docker and Vagrant
* Worked on monitoring tools **Grafana, Kibana, Logstash** and **Elastic Search** on the servers
* Wrote Jira stories and broke those stories into smaller pieces to complete the stories within the allocated sprints

Environment: Chef, Jenkins, Nexus, GIT, AWS, Teraform, Grafana, Kibana, RabbitMQ, Splunk, FactFinder, Jira, Version one, Maven, Tomcat, Shell Scripting

Client: GE Digital, Naperville, IL April 2016 – December 2016

Role: DevOps/ Cloud Engineer

Responsibilities:

* Our development environment included Git, Ruby 2.1.2, Atom as well as web interfaces for Atlassian Jira, Confluence. Public services included GitHub, CentOS, Ubuntu, Vagrant, Chef, Kitchen CI and AWS EC2
* Migrating all the applications from different environments such as DEV to QA/PERF and QA to PROD
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, Chef, and custom Ruby/Bash scripts
* Written Chef Cookbooks for various DB configurations to modularize and optimize end product configuration
* Evaluating testing of Chef Recipes using ChefSpec, Food Critic and Test-kitchen
* Worked on installing and setup the bare-metal install tool with Stacki
* Configured and maintained the Stacki Frontend Server to install the backend servers
* Creating repositories, branches, tags in GIT and assist the developers to fix merging issues. And also created hooks and managed permissions on the branches for GIT
* Responsible for maintaining the Infrastructure and Upgrades to deployment of new releases
* Experience with Linux, server automation and scripting
* Monitoring large scale applications using New Relic and telegraf influxdb and grafana
* Migrated a number of in house shell scripts that support deployment and configuration of multiple applications to UDeploy (Urban code) to reduce the administrative overhead of QA and production releases
* Write Chef inspecs and Server specs for the unit testing and integration testing
* Hands-on experience w/ containerization tools like Docker
* Knowledge on Kubernetes, Apache mesos and Docker swarm

Environment: Chef, Chef Pipeline, Stacki, RHEL 6 & 7, Ubuntu 14.04 & 16.04, Vagrant, Test Kitchen, Bash, Ruby, Kickstart file, Git, Docker, Kitchen

Client: **UnitedHealth Group - Hartford, CT** May 2014 – March 2016

Role: DevOps/ Cloud Engineer

Responsibilities:

* Designed, developed, implement an automated Linux (Centos, Amazon) infrastructure using Collective and AWS and move existing applications off windows seamlessly to it while aggressively growing
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates, security product templates
* Deployed and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using Ansible
* Integrated JIRA with GIT and created automated release Notes
* Used JIRA to track issues and Change Management. Responsible for Build and Install Schedules using Unix Cron jobs
* Experience in Monitoring and troubleshooting of the Servers using various third-party tools like Nagios
* Used Jenkins and pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes
* Collaborate with developers to bring new features and services into production. Provide support to development teams that use the automated infrastructure
* Develop and improve operational practices and procedures
* Maintains the source code change control for applications established for auto-deployment. Drives the development and maintenance of build automation tools
* Automation of various administrative tasks on multiple servers using Puppet
* Responsible for design and maintenance of the GIT Repositories
* Expert in installing and configuring Continuous Integration tools such as Bamboo, Cruise Control for build and deployment automation
* Redesigned and redeployed the Nagios implementation. Nodes automatically added/removed themselves
* Deployed and monitor scalable infrastructure on Amazon Web Services (AWS) & configuration management using puppet
* Creating Git bucket repositories, branch for development infrastructure and resolve PUSH, PULL & Merge issues
* Automation: User Management automated using Python script to achieve application mapping. Setup and configure all applications to authenticate against Active Directory LDAP interface

Environment: AWS, Linux, Jenkins, Puppet, Java/J2EE, ANT, MAVEN, Web Logic, Python, Shell Scripts, GIT, JIRA, Nagios, Hudson, Bamboo, AEM, SVN, Dockers, Vmware, Windows Server, MySQL, Red Linux, Putty

Client: **Sapient Nitro, Gurgaon, India** January 2013 – April 2014

Role: DevOps Engineer

Responsibilities:

* As member of Release Engineering group, redefined processes and implemented tools for software builds, patch creation, source control, and release tracking and reporting on UNIX platform
* Installed and managed all UNIX/LINUX servers, includes the design and selection of relevant hardware to Support the installation/upgrades of Red Hat (4/5), CentOS 4/5, Fedora core operating systems
* Created monitors, alarms and notifications for EC2 hosts using Cloud Watch   
  Defining Release Process & Policy for projects early in SDLC
* Coordinating with Different Project teams on Build &release planning and efforts. Used security groups, network ACLs, Internet Gateways, NAT instances and ip tables to ensure a secure zone for organizations in AWS public cloud
* Performed physical to virtual, Virtual to theVirtual migration of servers to support the Data center migration project
* Installing, configuring and administering Jenkins Continuous Integration tool on Linux machines along with adding/updating plugins such as SVN, GIT, Maven, ANT, and Puppet
* Researched and implemented an Agile work flow for continuous integration and testing of applications using Jenkins
* Worked on the transition project which involves migration activities from Ant to Maven in order to standardize the build across all the applications
* Involved in Installing Jenkins on a Linux machine and created a master and slave
* Built a new CI pipeline. Testing and deployment automation with Docker, Jenkin and Puppet
* Wrote Shell scripts and Perl scripts for day-to-day administration and create Perl scripts to automate the deployment
* Using Jenkins AWS Code Deploy plugin to deploy to AWS
* Responsible for code build, release and configuration on Amazon EC2
* Configuring, setting up of Tomcat, Apache, HA proxy, Redis

Environment: UNIX, LinuxRedHat, CentOS, AMAZONEC2, AMAZON EC2,Azure, AWS, Nagios, Jenkins, GIT, SVN, Maven, Ant, Puppet, SQL server 200, VLAN, Apache HTTP server, IIS, AWS, VMware, Python, Shell scripts

Client: **HCL Technologies Pvt. Ltd, India** September 2010 – December 2012

Role: Build & Release Engineer

Responsibilities:

* Undergone Training as per the requirement of the company basics
* Maintained and administered GIT source code tool. And Created Branches, Labels and performed Merges in GIT
* Implemented a code branching strategy for an internal marketing management application by collaborating with a team of Developers, QA testers, and DBAs
* Worked on all build, configuration and release management activities within the projects
* Configured the build server for the build set up, managing the code repository
* Wrote Shell scripts and Perl scripts for day-to-day administration and create Perl scripts to automate the deployment
* Managed the releases for ins and outs, smoothening the entire build cycle per release
* Interacted and coordinated with the client and different teams for any changes in build process requirements
* Setting up build structure as per requirement with maven
* Maintaining Builds per release and also configured the layout and designs of content
* Involved in Configuring Production set up, maintaining live releases and cut over plans
* Setting up of dispatcher configurations, load balancing and maintaining author and publish instances

Environment: Java, Eclipse, Git, Tomcat, Apache, Oracle, Jenkins, Ruby, JIRA, Maven