**Priya G**

*Sr. Aws DevOps Engineer*

+1 586-580-1883| priyag2823@gmail.com

**PROFESSIONAL SUMMARY:**

* Overall 7+ Years of extensive experience in Automating, configuring and deploying instances on cloud environments and Data Centers and mostly involved in the areas of DevOps, CI/CD pipeline, Build and release management, AWS/Azure and Linux/Windows Administration.
* Experienced in all facets of full CM process with tools such as **SVN, GIT, PVCS, Clear Case, Clear Quest, Perforce, Cruise Control, Jenkins, Bamboo, Chef and Puppet.**
* Experienced in running web scale services on **Amazon Web Services (AWS).**
* Experienced in creating **AWS IAM** and Security Group in Public and Private Subnets in **VPC**. Created **AWS Route53** to route traffic between different regions.
* Designed highly available, cost effective and fault tolerant systems using multiple **EC2 instances**, **Auto Scaling**, **Elastic Load Balance** **and** **AMIs and** **Glacier** for **QA** and **UAT** environments.
* Setting up data in **AWS** using **S3** **bucket** and configuring instance backups to **S3 bucket**.
* Deploy and monitor scalable infrastructure on **Amazon web services** (**AWS**) & configuration managementusing **Puppet**.
* Expertise in **Azure** Development, worked on **Azure web application**, **App services, Azure storage, Azure SQL Database**, **Virtual Machines, Fabric controller, Azure AD, Azure search,** and **Notification hub**.
* Expertise in **Microsoft Azure Cloud Services (PaaS & IaaS),** Application Insights, Document DB, Internet of Things (IoT), Azure Monitoring, Key Vault, Visual Studio Online (VSO) and SQL Azure.
* Created scripts for system administration using languages such as Shell and Python. Also developed and maintained shell scripts for build and release **ELK**, **NAGIOS**, **CLOUDWATCH** tasks.
* Experience in writing **Terraform** scripts for **AWS** infrastructure.
* Well versed with **Ansible** Playbooks, modules and roles.
* Experience in writing **Ansible scripts** and heavy **Shell**, **Perl**, **Python**, and **YAML** scripting.
* Experienced in writing **Ansible** playbooks to setup Continuous Delivery pipeline. This primarily consists of a **Jenkins** and **Sonar server**, the infrastructure to run these packages and various supporting software components such as **Maven**, etc.
* Worked DevOps methodologies and cloud infrastructure automation tools like **AWS, Chef** by using **Terraform.**
* Implemented **Ansible** to manage all existing servers and automate the build/configuration of new servers.
* Development and version control of **Chef** Cookbooks, testing of Cookbooks using **Food critic** and **Test Kitchen** and running recipes on nodes managed by on premise **Chef** Server.
* Well versed with many different concepts of **Chef** like **Roles**, **Environments**, **Data Bags**, **Knife**, **Chef Server** Admin/Organizations.
* Well versed in developing bash **shell scripts**, **Python,** **ruby on rails** and creating recipes in **chef cookbooks**.
* Experience writing **Shell** and **Ruby scripts** to automate the deployments.
* Experience working with **Puppet Enterprise** and Puppet Open Source. Installed, configured, upgraded and managed **Puppet Master**, **Agents** & **Databases**.
* Experience with Configuration Management Tools such as **PUPPET** and **SALTSTACK**.
* Worked on creation of **Puppet** manifest files to install tomcat instances and to manage configuration files for multiple applications.
* Extensively worked on **Jenkins** for continuous integration and for End-to-End automation for all build and deployments.
* Installing, configuring and administering **Jenkins** CI tool on Linux machines and built Continuous Integration and Continuous delivery environment. Setup **Docker** on Linux and configured **Jenkins** to run under **Docker** host.
* Experienced with **Docker** container service and Dockized applications by creating **Docker images** from **Docker file**.
* Building/Maintaining **Docker** container clusters managed by **Kubernetes** Linux, Bash, **GIT**.
* Primary duties include coming up with a combination of Automation/Tools and Processes to achieve **Continuous Delivery/ Continuous Integration** for various applications by integrating various tools like **Jenkins**, **Git**, **Puppet/Chef**, **Maven.**
* Extensively worked on configuration Management and source code repository management using tools like **GIT**, Subversion (**SVN**).
* Integration, deployment and automation of application servers **Tomcat**, **WebLogic** across Linux platforms.
* Experience in software build tools like **Maven, Gradle, Apache An**t to write POM, build scripts etc.
* Experience of the full Software Development Life Cycle (**SDLC**) and Methodologies & Validations to ensure the Quality Assurance Control.
* Have worked with multiple teams like **Development, QA, DB and Middleware administrators in automating various tasks.**
* Experience in Virtualization technologies **VMWare, Virtual box, Vagrant** for creating virtual machines and provisioning environments.
* Designed, Architected and implemented the Platform as a service built for Multi-tenant platform within the **Hybrid cloud infrastructure** within **AWS** and **GCP**.
* Experienced in installing, configuring, supporting and troubleshooting Unix/Linux Networking services and protocols like **NIS**, **NIS+,** **LDAP**, **DNS**, **NFS**, **DHCP**, **NAS**, **FTP**, **SSH** and **SAMBA**.
* Good Knowledge in Administration of Production, Development and Test environments carrying different operating system platforms like **Windows**, **Red Hat Linux.**
* Experienced in maintaining networks via **TCP/IP** to enhance security and allow businesses to offer managed Wireless Hotspot services.
* Good interaction with developers, managers, and team members to coordinated job tasks and strong commitment to work.

**TECHNICAL SKILLS:**

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| *Integration & Configuration Management tools* | Jenkins, Bamboo, Hudson, Ant, Maven, Chef, Ansible, Puppet. |
| *Version Control Tool* | Git, GitHub, Bit Bucket, SVN(Subversion), Tortoise. |
| *Cloud Environment* | Amazon Web Services(AWS), Azure, OpenStack, Google Cloud Platform (GCP) |
| *Tools* | CHEF, PUPPET, HUDSON/JENKINS, XL Deploy, XL Release, MAVEN, CVS, SVN, GIT, GITHUB, TORTOISE SVN, NEXUS, NAGIOS, VAGRANT, DOCKER, ANSIBLE, SPLUNK. |
| *AWS Services* | EC2, ELB, VPC, RDS, AMI, IAM, Cloud formation, S3, Cloud |
| *Operating Systems* | Red Hat Linux 4/5/6/7, CentOS, Fedora, SUSE LINUX, UNIX, Windows servers [2008, 2008 R2, 2012] Windows, Ubuntu, Sun Solaris, HPUX 10.x/11.x |
| *Networking/Protocol* | FTP/SFTP, SMTP, TCP/IP, HTTP/HTTPS, NDS, DHCP, NFS, Cisco Routers, Juniper Routers |
| *Scripting Languages* | Yaml, Python, ruby, shell, power, shell, J son |
| *Web/Application Servers* | Apache Tomcat, JBOSS, Web Logic 9, WebSphere, Apache 2.0.x, and ngnix, IIS |
| *Database Technologies* | SQL Server, MySQL, RDS, MongoDB, Cassandra DB, DynamoDB |
| *Web Technologies* | HTML, CSS, J Query, Java Script, XML, JSON |
| *Monitoring Tools* | Nagios, Splunk, Elastic Search, Log stash and Kibana(ELK), Cloud Watch, Cloud Trial, Dynatrace |
| *Volume Manager* | VERITAS Volume manager, LVM |
| *Application Servers* | Web Logic Application Server 9, 10, Apache Tomcat 5/7, Red Hat JBOSS, |

**BUSINESS EXPERIENCE:**

**BlueCross Blue Shield, Chicago June 2018-Present**

*Sr. DevOps Cloud Engineer*

* Configured a virtual data center in the **Amazon Web services** cloud to support Enterprise data warehouse hosting including **Virtual Private Cloud (VPC),** Public and Private Subnets, **Security Groups**, **Route Table**, **Elastic Load Balancer**.
* Leveraged Aws cloud services such as **EC2**, **Auto scaling** and **VPC** to build secure, highly Scalable, high available and flexible systems that can handled expected and unexpected load bursts.
* Created **Aws Cloud Formation templates** to create **custom sized VPC**, **subnets**, NAT instances to ensure successful deployment of web applications and data base templates.
* Created **Python scripts** to totally **automate Aws Services** which includes **ELB**, **Cloud front distribution**, database, EC2 and **database security**, **S3 bucket** and application configuration, this script creates stacks, single servers or join web servers to stacks.
* Utilize **AWS CLI** to automate backups of ephemeral data-stores to S3 buckets, EBS and create nightly **AMI’s** for mission critical production servers as backups.
* Worked with managing open stack infrastructure upgrades, expansion, scaling and troubleshooting on the most challenging, complex environments.
* Worked with **git** for getting code from repository and pushing code in repository with **chef** and **terraform**.
* Worked DevOps methodologies and cloud infrastructure automation tools like **AWS** by using **Terraform**.
* Experience in Setting up the build and deployment automation for Terraform scripts using Jenkins.
* Involved in using **Terraform** migrate legacy and monolithic systems to Amazon Web Services.
* Provisioned the highly available **EC2 Instances** using **Terraform** and cloud formation and wrote new plugins to support new functionality in **Terraform**.
* Used Bash and Python, included Boto3 to supplement automation provided by **Ansible** and **Terraform** for tasks such as **encrypting EBS volumes** backing AMIs and scheduling **Lambda** functions for routine AWS tasks.
* Expertise in writing new plugins to support new functionality in **Terraform.**
* Used **Terraform** scripts to Automate Instances for Manual Instances that were launched before.
* Involved in Architect, Build and maintain Highly Available secure multi-zone AWS cloud infrastructure utilizing **Chef** with AWS Cloud Formation and the Jenkins& Hudson for continuous integration. Responsible for CI environments.
* Monitored and managed the cloud infrastructure within **AWS** and **Google cloud infrastructure**. Configured the AWS DNS to route the traffic between **AWS** and **GCP** configured each tenant on the platform.
* Worked on creating **Terraform Modules** for re-usage of code.
* Architecting high available, auto scalable platforms in AWS cloud on windows & Linux, Designing database high availability solutions on MS SQL & My SQL multi AZ RDS.
* Responsible for creating Aws **Identity and Access Management(IAM)** groups and Users for improved **login authentication** and providing **security Group** in both Public and Private Subnets in VPC.
* Experienced in Branching, labeling and Analyzing and resolving conflicts related to merging of source code in **GIT** and implemented a **continuous Integration** and **Delivery pipeline** using **Docker, Jenkins and GIT**. And also used Jenkins pipeline plugin to analyze the Maven dependencies and the SCM changes.
* Worked on Inbound and Outbound services with automation **CHEF**. Deployed multiple resources simultaneously, using Cloud Formation templates in AWS.
* Built/monitored the **CI/CD** on **GCP** using Jenkins and Google shell commands.
* Setting up the build and deployment automation for **Terraform** scripts using Jenkins and Used HCL scripts for writing **terraform** Scripts.
* Focused on containerization and immutable infrastructure, Docker has been core to this experience, along with Mesos, Marathon and Kubernetes
* Automated deployment activities in middleware environment which includes portal applications running on Java using **Puppet Master** and **Agent Nodes,** Puppet manifests to automate the installations and deployment tasks in service oriented architecture (SOA).
* Experienced in **Troubleshooting**. **Splunk** search, quotas, monitor Inputs, WMI Issues, Splunk crash logs and Alert scripts.
* Involved in using **Terraform** migrate legacy and monolithic systems to Amazon Web Services.
* Wrote **Ansible Playbooks** with **Python SSH** as the wrapper to manage the configuration of AWS nodes and test playbooks on AWS instance using Python. Ran Ansible scripts to provision Dev Servers.
* Utilized **Jira** for Bug Tracking, **Nagios** & **Graphite** for System monitoring, **Cloud Watch and Cloud Trial** for monitoring the cloud environment.

*Environment:*AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53), VDI, Linux, Ansible, Git version Control, VPC, AWS EC2, S3, Route53, EBS, IAM, ELB, Cloud watch, Cloud Trial, Cloud Formation, AWS CLI, AWS Auto Scaling, Maven, Jira, Nagios, Subversion, Jenkins, Chef, Puppet, Ansible, Mesos, Docker, Kubernetes, Python, Ruby.

**Anthem Inc, Norfolk, VA Feb 2017-May 2018**

*Sr. Aws/DevOps Engineer*

* Build expertise in Workflow for Amazon Web services including **Security Groups, IAM, EC2, S3, ELB, EBS, Policy, VPC, Docker, Kubernetes, Cloud Formation, Chef, Jenkins Vagrant, Apache, Tomcat, Git** and **GitHub**. -
* Designing and deploying a multitude of applications utilizing almost all the **AWS** stack (Including **EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM**) focusing on high-availability, fault tolerance, and auto scaling in AWS Cloud formation.
* Migrating a production infrastructure into an Amazon Web Services utilizing **AWS Cloud Formation, Code Deploy, EBS** and **Ops Works.**
* Build servers using **AWS**, importing volumes, launching **EC2, RDS,** creating **security groups**, auto-scaling, load balancers (ELBs) in the defined virtual private connection and open stack to provision new machines for clients.
* Implemented rapid-provisioning and life-cycle management for **Ubuntu Linux** using **Amazon EC2, Chef**, and custom **Ruby/Bash script**.
* Installed and managed **Kubernetes** applications using helm.
* Experience in creating **Docker** containers leveraging existing **Linux** Containers and **AMI's** in addition to creating Docker containers from scratch.
* Working on **DevOps** platform and have gained experience in specialized areas related to **Chef** for Cloud Automation
* Experience in automation of configuration of hosting environments including database administration and scaling an application and support load changes by using **ansible** and **chef**.
* Demonstrated on **Ansible** along with **Ansible Tower** can be used to automate different software development processes all over the team organization.
* Involved in setting up the architecture of proposed environments with all the **CI/CD** tools.
* Built Continuous Integration and Continuous delivery environment in **Jenkins**.
* Built end to end **CI/CD** Pipelines in **Jenkins** to retrieve code, compile applications, perform tests and push build artifacts to **Nexus**.
* Used **Jenkins** to automate everyday builds, testing and deployed in antifactory and tomcat servers.
* Worked with build pipeline set up for Continuous Integration/Continuous Deployment using **Jenkins** Enterprise editions and **uDeploy** to orchestra changes across servers and components.
* **Built scripts** using **ANT** and **MAVEN** build tools in **Jenkins** to move from one environment to other environments.
* Defined branching, labeling, and merge strategies for all applications in **Git**.
* Collaborate in the automation of **AWS** infrastructure via **terraform and Jenkins -** software and servicesconfiguration via **chef cookbooks.**
* Configured and managed source code using **Git** and resolved code merging conflicts in collaboration with application developers provided consistent environment
* Responsible for **merging, tagging** and **conflict resolution** in **GIT**
* Played a key role during analyzing, preparing technical and functional design specification documents as per the Requirements, Architecture, Development and Maintenance of high traffic application built in **Java/J2EE**.
* Configuring and Networking of **Virtual Private Cloud (VPC)** Written Cloud formation templates and deployed AWS resources using it.
* Extensive working experience in agile environment and have a Full understanding of **SDLC** and process

*Environment:*GIT, Jenkins, Chef, SVN, Ansible, Lambda, AWS EC2, AWS S3 and RDS, Beanstalk, AWS ELB, SQS, Cloud Watch and Route 53, ANT, MAVEN, Shell(bash), TFS, uDeploy, Nagios, Apache Tomcat Application Server, Docker.

**CHRMIS, Pleasanton, California Sep 2015- Dec 2016**

*DevOps/AWS Engineer*

* Involved in designing and deploying multitude applications utilizing almost all of the AWS stack (Including **EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM)** focusing on high-availability, fault tolerance, and auto-scaling in AWS Cloud Formation.
* Automated Regular **AWS** tasks like snapshots creation using **Python** scripts.
* Build servers using AWS, importing volumes, launching **EC2, RDS**, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
* Managed Virtual servers (**Ubuntu, Linux and Windows)** on **AWS** EC2 using Open-Source **Chef** server.
* Deployed and monitored scalable infrastructure on Amazon Web Services (**AWS**) & configuration management using **Chef**
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, **Python**, **Ruby**, and **Docker** on familiar servers such as **Apache**, and IIS.
* Created **Python** scripts to totally automate AWS services, which includes web servers, ELB, Cloud Front distribution, database, EC2 and database security groups, S3 bucket and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Developed GIT hooks for the local repository, code commit and remote repository, code push functionality and worked on the **GitHub**.
* Involved on migrating **SQL Server databases** to **SQL Azure Database** using **SQL Azure Migration Wizard** and used **Python API** to upload agent logs into **Azure blob** storage.
* Worked with **AWS** Code Pipeline and creating cloud formation JSON templates which are converted to **Terraform** forinfrastructure as code**.**
* **I**mplemented **Terraform** modules for deployment of applications across multiple cloud providers**.**
* Deployed J2EE applications to Application servers in an agile continuous integration environment and also automated the whole process. Build scripts using **Ant** and **Maven** build tools in **Jenkins**, Sonar to move from one environment to other environments.
* Utilized **Jenkins** for enterprise scale infrastructure configuration and application deployments - checking out code from Svn/Git and use **Ant**/**Maven** to build War/Ear artifacts.
* Managed **Maven** project dependencies by creating parent-child relationships between projects.
* Developed multiple **Chef** Cookbooks from scratch. Implemented automation with Vagrant, **Chef** on AWS for application testing, deployment, and development. Prepared documentation describing the configuration state of each item that was under CM control.
* Deployed web applications using **Chef** by developing the Cookbook. Also, responsible for creating and importing all the environments required to run the project.
* Installed Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks and uploaded them to **Chef**-server, Managed On-site OS/Applications/Services/ Packages using **Chef** as well as AWS for EC2/S3&ELB with **Chef** Cookbooks.
* Used **Chef** for managing server application server such as **Apache, MySQL, Tomcat.**
* Participated in configuring and monitoring distributed and multiple platform servers using Puppet. Used Puppet server and workstation to manage and configure nodes.
* Utilized Puppet and Puppet dashboard for Configuration Management of hosted Instances within AWS.
* Automation configuration and deployment of Linux and Windows machines using **Puppet**.
* Redesigned and redeployed the **Nagios** implementation. Nodes automatically added/removed themselves via **Puppet**.
* Worked on **Docker** Hub, creating **Docker** images and handling multiple images primarily for middleware installations and domain configuration.
* Created Linux containers in CoreOS and **Docker** and Automated system using **Chef**.
* Virtualized the servers using the **Docker** for the test environments and dev-environments needs. And also, configuration automation using **Docker** containers.
* Collaborated with development and Support teams to setup a Continuous Delivery environment with the use of **Docker**, continuous build and Delivery tools.
* Written **Chef** Cookbooks for various DB configurations to modularize and optimize end product configuration, converting production support scripts to **Chef Recipes** and AWS server provisioning using **Chef Recipes.**
* Used, vim and sublime editors for developing **Chef recipes** and **puppet** classes, creating puppet class ordering defining reusable methods.
* Used **knife** command-line to provide an interface between a local **Chef-repo** and the **Chef server**.
* Implemented **Chef Cookbooks** for OS component configuration to keep **AWS server’s** template minimal and written recipes and **cookbooks** for configuring server side through **Chef**.
* Used **Nagios, Splunk**, and **New Relic** tool for Monitoring.
* Strong in building Object Oriented applications using Java, writing Shell Scripts on UNIX.
* Solid understanding of **Project Life Cycle Management** and strong experience on working of AGILE Methodologies. Good understanding on Agile Tools Rally, tracking status and setting up velocities for the projects.

*Environment:* Ubuntu, Linux, Jenkins, Mesos, Chef, Puppet, Ansible, Svn, GIT, AWS, Docker, Bash, Shell, Tomcat and Apache, Vagrant, Gradle

**GENOMIX PRIVATE LIMITED, Hyderabad Jan 2014-Aug 2015**

*Build/Release Engineer*

* Developed and implemented Software **Release Management strategies** for various applications according to the agile process.
* Deployed **puppet** for configuration management to existing infrastructure.
* Implemented **puppet** modules for server housekeeping.
* Actively involved in architecting the **puppe**t infrastructure to manage servers in different environments.
* Utilized Configuration Management Tool **Chef** & created **Chef Cookbooks** using recipes to automate system operations.
* Solid understanding of Linux shell and Perl scripting, **UNIX**, Windows, build and release engineering principles.
* Involved in writing **pom** files to establish the code quality tools integration.
* Experienced in authoring **pom.xml** files, performing releases with the **Maven** release plugin, **Maven initialization** of Java projects and managing **Maven** repositories.
* Used scripting languages like **Python, Ruby, Perl, Bash** and **PowerShell** for configuration.
* Releasing code to testing regions or staging areas according to the schedule published.
* Implementing a Continuous Delivery framework using Jenkins, in multiple environments.
* Implemented Release schedules, communicated the Release status, created Roll Out Plans, tracked the Project Milestones, prepared the reports and chaired the Release calls and worked for a successful Release of Jira Application.
* Worked on **Tomcat, JBOSS, WebLogic** and **WebSphere** Application servers for deployments.
* Used **JIRA** to track issues and Change Management.
* User, Group creation, monitoring and maintaining log for system status/health using **Linux** commands and Nagios system monitor.
* Responsible for designing and deploying best **SCM** processes and procedures.
* Used both **GIT** and BIT bucket source control systems to manage code.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using **GIT** source control.
* Understanding of developing and testing enterprise products, with current focus on cloud based application and giving solution to challenges imposed by multi data center deployed SaaS products and their needs for DevOps tools and automation.

*Environment:* SVN, GIT, Jenkins, Maven, Nexus, Chef, WebLogic, TOMCAT, Python Scripts, Perl Scripts, Ruby Scripts, XML, Unix, JIRA.

**VET INDIA, Hyderabad May2012-Dec 2013**

*Linux Administrator*

* Managed and administrated of all **UNIX servers**, includes **Linux** operating systems by applying relative patches and packages at regular maintenance periods using Red Hat Satellite server, **YUM, RPM tools**.
* Planned and performed the upgrades to **Linux RHEL 5x, 6x, SUSE, CENTOS 5,** operating systems and hardware maintenance like changing memory modules, replacing disk drives.
* Handling **NFS, Auto Mount, DNS, LDAP** related issues.
* Monitoring CPU, memory, physical disk, Hardware and Software **RAID,** multipath, file systems, network using the tools **NAGIOS 4.0** monitoring.
* Performing failover and integrity test on new servers before rolling out to production.
* Deployment and Configuration of application server Tomcat deploying Java and Web Application.
* Writing **Shell scripts** for automation of daily tasks, documenting the changes that happen in the environment and in each server, analyzing the error logs, analyzing the User logs, analyzing the **/var/log/messages**.
* Planned, scheduled and Implemented OS patches on **Linux boxes** as a part of proactive maintenance.
* Identify, troubleshoot, and resolve problems with the OS build failures.
* Installation, configuration, and customization of services Send mail, Apache, FTP servers to meet the user needs and requirements.
* Performing kernel and database configuration optimization such that it limits **I/O** resource utilization on disks.

*Environment:* Red Hat Linux, Autosys, CentOS, VMware vSphere, VMware, GIT, Shell Scripting, MySQL, Tomcat, Nagios.