** Prathyusha B**

**Sr. Cloud / DevOps Engineer**

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**PROFESSIONAL SUMMARY:**

Extremely passionate DevOps professional having around 8 years of experience in Information Technology comprising ofDesigning, Development, Build, Release, Deployment, Monitoring and cloud implementation (SDLC) Cloud Automation, Configuration Management, Provisioning, Build and Release, Continuous Deployment, Delivery management and Cloud Migration. Strong innovative and technical background in AWS, Azure DevOps, Google Cloud Platform, Terraform and Containerization.

* Experience working on AWS code pipeline, code deploy, code build, code commit for setting up continuous integration & deployments.
* **Experience in Converting existing AWS Infrastructure to Server less architecture (AWS Lambda, Kinesis), deploying via Terraform and AWS Cloud Formation templates.**
* Created templates for automating and deploying Relational and NoSQL databases (standalone and RDS), including Oracle, SQL Server, MongoDB and MariaDB in AWS.
* Experience in Azure Platform Development, Deployment Concepts, hosted Cloud Services, platform as a service (PaaS) and close interface with Windows Azure Multi-factor Authentications
* Good at managing, hosting, and planning for Azure Infrastructure, implementing and deploying workloads on Azure virtual machines (VMs).
* Worked on creating end-end ci/cd pipeline using VSTS and deployed it in the Azure cloud.
* Expertise installing, configuring and testing Open stack environment (Nova, Swift, Cinder, Neutron, Horizon, Glance, and Keystone) on RedHat and Ubuntu distribution.
* Experience worked with Pivotal Cloud Foundry (PCF) and the implementation of micro-services in Pivotal Cloud Foundry.
* Experience in Kubernetes with multiple namespace versions.
* Assisted in migrating Linux, windows and VMware server into Aws cloud.
* Experience using Docker containers in implementing a high-level API to provide lightweight containers that run process isolation and worked on the creation of customized Docker container images, tagged and pushed the images to the Docker repository.
* Implemented a Docker delivery pipeline allowing for CI/CD of Java tomcat web service containers Experienced in operationalization of DevOps tools such as GitHub, Jenkins, Puppet, Chef, Nagios, Ansible, Ant, Maven and Splunk.
* Experienced in Branching, Merging, Tagging and maintaining the version across the environments using SCM tools like GIT, GITLAB CI, Subversion (SVN) on Linux platforms.
* Extensively worked with build tools like MAVEN and ANT for the building of deployable artifacts (war & ear) from source code.
* Extensively worked with scripting languages like shell, groovy, python for implementing serverless architecture with Lambda functions.
* Experience in Virtualization technologies VMWare, Virtual box, Vagrant for creating virtual machines and provisioning environments.
* Implemented Ansible roles, playbooks and configured dynamic inventories using Ansible plugins.
* Worked on Ruby scripting for writing Chef cookbooks to configure end servers.
* Worked on Bugzilla and Jira as a defect tracking system in our environment.
* Involved installing and managing different automation and monitoring tools on Red hat Linux like Nagios, Splunk and Puppet.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform).

**TECHNICAL SKILLS:**

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| **Cloud Platforms** | AWS, Azure, Google Cloud Platform (GCP), VMware and PCF |
| **Configuration Management Tools** | Ansible, Chef, Puppet |
| **CI /CD Tools** | Jenkins, Bamboo, Hudson, Terraform |
| **Build Tools** | Maven, ANT, Gradle, MS Build |
| **Containers and Orchestration Tools** | Docker, Docker Swarm, Kubernetes, Mesos, OpenShift, Aws ECS. |
| **Version Control Tools** | GIT, GITHUB, GITLAB, Bitbucket, SVN |
| **Logging & Monitoring Tools** | Nagios, Splunk, ELK, CloudWatch, Azure Monitor, Prometheus, New Relic, Grafana. |
| **Scripting & Programming Languages** | Shell Scripting, RUBY, C, C++, XML, PL/SQL, Java/J2EE, HTML, PERL, POWERSHELL, Python, Java/J2EE, .Net, Gradle, Groovy, Scala |
| **Databases** | My SQL, MS SQL, Oracle, Dynamo DB, Cassandra, Mongo DB 7 SQL Server |
| **Application/Web Servers** | Web logic, Web sphere, Apache Tomcat, Nginx, Oracle application server |
| **Operating Systems** | UNIX, Linux, Windows, Solaris, CentOS, UBUNTU and RHEL. |
| **Virtualization Platforms** | Oracle VirtualBox, VMware Workstation, Vagrant, VMware vSphere ESXi 5.x/4.X, ESX /3.x, Hyper-V |
| **Bug Tracking Tools** | JIRA, Bugzilla, Remedy, HP Quality Center, IBM Clear Quest, Mingle, Rally |
| **Repositories** | Antifactory, Nexus |
| **Web Technologies** | HTML, HTML5, CSS, Java Script, jQuery, Bootstrap, XML, JSON, XSD, XSL, XPATH, Word Press. |

**PROFESSIONAL EXPERIENCE:**

**Centene Corporation - Rancho Cordova, California. April 2019 - Present**

**Sr. Cloud/DevOps Engineer**

* Gained broad range of experience working on various **AWS**Services like **EC2, IAM**, **Subnets, Glacier**, **VPC**, **Cloud Formation**, **AMI, S3, SNS, SES, RedShift, CloudWatch, SQS, Route53, CloudTrail, Lambda, Kinesis, SageMaker** and **RDS** and obtaining High Availability and Fault Tolerance for **AWS** EC2 instances utilizing the services like **Elastic IP, EBS and Load Balancer**.
* Used **Amazon ECS** as a container management service to run microservices on a managed cluster of **EC2** instances. Implemented Amazon API Gateway to manage, as an entry point for all the API's.
* Wrote **Lambda** functions in python for AWS Lambda and invoked **python** scripts for data transformations and analytics on large data sets in **EMR clusters** and **AWS Kinesis data streams**.
* Deployed and configured **Elasticsearch**, **Logstash** and **Kibana** (ELK) for log analytics, full text search,

application monitoring in integration with **AWS** **Lambda** and **CloudWatch**.

* Configured an **AWS**Virtual Private Cloud (VPC) and Database Subnet Group for isolation of resources within the Amazon **RDS** Aurora DB cluster and created notifications and alarms for **EC2** instances using **Cloud Watch.** Experience in managing the **load balancers** in a high-availability infrastructure.
* Hands on experience with AWS solutions using **CloudFormation** Templates and launch configurations to automate repeatable provisioning of AWS resources for applications.
* Written **Terraform** templates and **Ansible Roles** for configuring EC2 Instances and deployed code in to the

 required environments using **AWS Code Deploy**.

* Configuring, automation and maintaining build and deployment CI/C**D tools GIT/ GIT-Lab, Jenkins/Hudson, ANT**, Maven, Build Forge, Docker-registry/daemon, **Nexus and JIRA**
* Configured and maintained the **AWS Lambda** function to trigger when there is a **Jenkins build** kicked off, which internally gets stored on **AWS S3** bucket for everybody to access. Created **Route53 to route traffic** between different regions. Worked with **Security groups & Network ACLs**.
* Worked on **Terraform** for automating VPCs, ELBs, security groups, SQS queues, S3 buckets. Using **Terraform** as a tool, Managed different infrastructure resources Cloud, VMware, Bare Metal Servers, and **Docker** containers.
* Wrote **Ansible** playbooks, inventories created custom playbooks written in **YAML** language, encrypted the data using **Ansible Vault** and maintained role-based access control by using **Ansible Tower** and Implemented IT orchestration using Ansible to run tasks in a sequence which can work on different servers.
* Worked on **Docker** to containerize the Application and all its dependencies by writing Docker file, Docker-Compose files, Docker container snapshots, managing Docker volumes, and deployed Docker Swarm using **Ansible**.
* Worked with **Docker container snapshots**, attaching to a running container, removing images, managing directories structures and managing containers.
* Automated Java Builds with **Maven** and Implemented multiple plugins for Code analysis, Junit, Code coverage, PMD, SonarQube, etc. Installed and administered **Artifactory repository** to deploy the artifacts generated by **Maven.**
* Implemented Spring boot microservices to process the messages into the **Kafka** cluster setup.
* Used **Shell**, **Python** and **Bash Scripting**, 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 improving build & deployment tools in DevOps through automation using scripting languages such **as JavaScript, Shell, Bash, Perl, JSON, Ruby, Groovy and Python** etc.
* Created and wrote shell scripts (Bash), Ruby, Python and PowerShell for automating tasks.
* Configured commercial **SSL certificates** for Applications Servers such as WebSphere, WebLogic, Tomcat using **NGINX** and **Apache web servers** to terminate SSL endpoint.
* Architect and developed cloud-based real-time, big-data ingestion and analytics components using **AWS stack**, Spark, EMR, PI Server, Cloudwatch triggers, State machines, Lambda functions.
* Creating and maintaining containerized **micro services and configuring/maintaining** private **container registry** on Microsoft Azure for Hosting Images and using **Windows Active Directory.**
* Deployed and Maintained windows phone applications on **Azure cloud technologies**. Migration of **TSS** application to Microsoft **Azure Cloud** Service Project as part of cloud deployment.
* Managed servers on the Microsoft **Azure** Platform **Azure** Virtual Machines instances using Ansible Configuration Management and created **Ansible Playbooks**, tasks and roles to automate system operations.
* Worked on **AZURE (IaaS)** migrating like creating **AZURE VMs, storage accounts, VHDs, storage pools,** migrating on premise servers to AZURE and creating availability sets in AZURE and performed Hardening of the VM's and disk encryption using the **KEK key** in **MS Azure**.
* Created **Kubernetes** clusterwith objects like Pods, Deployments, Services and Config-Maps.
* Configured and setup Cluster environment in **Kubernetes** with a master and 3 minions. Collaborating with development team for creating **Docker and Kubernetes** containers for each micro-service and installed all required dependencies for each container.
* Integrated Docker container orchestration framework using Kubernetes by creating pods, **configMaps** and deployments.
* Utilized **Kubernetes and Docker** for the runtime environment of the CI/CD system to build, test deploy.
* Configured the Kubernetes provider with **Terraform** which is used to interact with resources supported by Kubernetes to create several services such as Config Map, Namespace, Volume, Auto scaler, etc.
* Worked on **Google cloud platform (GCP)** services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Responsible for Development, **UIT, SYTEM, UAT, STAGING Builds** and Releases. Set up system for dynamically adding and removing web services from a server using Docker, and **GIT hub CI.**
* Debugging Chef Recipes and their execution trying to pull logs into **Splunk** and monitor deployments.
* Set up and maintained Logging and Monitoring subsystems using tools like; **Elasticsearch, Fluentd, Kibana, Prometheus, Grafana and Alertmanager.**
* Established infrastructure and service monitoring using Prometheus and Grafana.

**Environment:** AWS,Git, Gitlab, Maven, Jenkins, Groovy Script, Linux, Jira, chef, Ansible, Docker, Splunk, python, EC2, S3, RDS, EBS, ELB, Opswork, Nexus, Bash, Unix/Linux, Nagios.

**Credit Acceptance – Southfield, Michigan** **January 2018 – March 2019**

**Cloud/DevOps Engineer**

* Set up of infrastructure for Microsoft Environment using Azure AD, DNS, DHCP, SCVMM, WDS, SCOM, Hyper**-**V**,**

TS Gateway, VLAN, kickstart and switches updates for managing the network on servers.

* Configured a custom domain name as an alias for the Azure Storage Domain and configure a CNAME DNS record for

 the Azure Content Delivery Network (**CDN**) domain for providing access to the Static content with the least amount

of Latency.

* Managed Client's Azure based **PaaS** and **IaaS** environments and deployed Azure IaaS, PaaS VM's in Master

Slave Architecture into **ARM** templates and Cloud services (PaaS role instances).

* Configured storage account, a vault, and a virtual network in Azure, enabled replication for individual VM, and

monitored automated mechanisms within Azure site recovery (**ASR**) during the migration of AWS based services

onto Azure.

* Configured VM's availability sets using Azure to provide resiliency for IaaS based solution and scale sets using

Azure Resource Manager to manage network traffic and implementation to Deploy Web applications on Azure

**PowerShell** Workflow.

* Exported data to Azure Data Lake Stores and stored them in their native formats using different sources, Relational

and Semi- structured data using **Azure** **Data** **Factory**.

* Involved in server less services **(Azure Functions**) where I created and configured HTTP Triggers in the Azure

Functions with Application Insights for monitoring and performing the load testing on the applications using the

VSTS. Worked on **Terraform** tool for building, changing and versioning infrastructure safely and efficiently.

* Performed Branching, Tagging, Release Activities on Version Control Tool **GIT (GitHub)**
* Work experience with **Docker swarm** and compose in building distributed Docker containers. Able to script Docker

steps that can be used for automated deployment for developers in Local, staging and production after a

continuous integration build.

* Hands on experience on orchestration and cluster containers to address load balancing, scaling, failover and

scheduling using **Docker**.

* Deployed android applications and tested using **Android runtime** (ART).
* Used **Redhat OpenShift** to improve application security by putting admin consoles on different Docker

containers accessible only from unusual port numbers.

* Lead an active integration effort for building out **PaaS** with **Redhat** OpenShift, Dockers and working with developers

on application containerization effort.

* Worked with multiple development groups to design/create automated build and deployments using MSBuild,

Ant, VBScript and PowerShell Scripting.

* Experience in Technical and Functional side of the **Team Foundation Server** Components (Source Control,

Work Items, TFS Builds, Reporting, SharePoint).

* Built Continuous Integration environment and Continuous delivery using **MsBuild** for Dot net Application.
* Used **Ruby** scripting on **Chef** Automation for creating **cookbooks** comprising all resources, templates, and attributes.
* Worked on the Installation, Configuration and Maintenance of **Apache** **Tomcat**, **Web** **Sphere** and **JBoss** servers in

Linux environment.

* Used **Django's** **ORM** (object-relational Mapper) to automate the transfer of data stored in State farm database tables

into objects that are more commonly used in application code.

* Writing **Splunk** queries to create dashboards to monitor various use cases. Creating a central logging server using **rsyslog**.
* Engineered **Splunk** to build, configure and maintain heterogeneous environments and in-depth knowledge of log

analysis generated by various systems including security products.

* Worked on **POC** on various Application Performance monitoring and central monitoring tools like **New** **Relic**,

**Dynatrace**, **App dynamics** and **logic monitor**.

* Responsible for Setting up user profiles, configuring and adding application servers on **Dynatrace** tool.
* Maintained **JIRA** for tracking, updating project defects and tasks by ensuring successful completion in a Sprint.
* Managed and documented all post deployment issues utilizing the **Post Deployments Issue Log**. Ensured all steps

were successfully completed and **documented** their completion times and issue logs.

* Coordinated with the Development, Database Administration, **QA** and **IT Operations** teams to ensure there were

no resource conflicts.

* Wrote **AWS CloudFormation** templates to create custom-sized **VPC, subnets, EC2 instances, ELB, and security groups**. Worked on tagging standard for proper identification and ownership of EC2 instances and other AWS Services like CloudFront, cloudWatch, **RDS, S3, Route53, SNS, SQS, Cloud Trail**.
* Configured and maintained the AWS **Lambda** function to trigger when there is a Jenkins build kicked off, which internally gets stored on AWS S3 bucket for everybody to access. Created **Route53** to route traffic between different regions. Worked with **Security groups & Network ACLs**.
* Hands on experience on **using Terraform along with packer** to create custom machine images and automation tools like Chef/Ansible to install software's after the infrastructure is provisioned.
* Worked with **Terraform for automating** VPCs, ELBs, security groups, SQS queues, S3 buckets, and continuing to replace the rest of our infrastructure.
* Created **Chef Cookbooks** and wrote recipes in **Ruby Script** to install and configured Infrastructure across environments and automated the process using **Python Script.**
* Created **Groovy Script** to Implement Jenkins Pipeline and automate deployments.
* Setup **GCP Firewall** rules to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Established infrastructure and service monitoring using **Prometheus and Grafana.**

**Environment & Tools**: Java/J2EE, GITHUB, Jenkins, Chef , ANT, Maven, VSTS, Shell (bash), JSONschema, Django,

Apache Tomcat, WebLogic, Terraform, PowerShell, Red hat LINUX, CentOS, UNIX, JIRA, Remedy.

**Burlington Coat Factory – New Jersey August 2016- December 2017**

**Cloud Engineer**

* Maintained multiple versions of code developed by developers for different purposes and moved all the code related to the project into a single repository.
* Integrated git with build tools such as **maven** and created continuous deliver build pipelines from development to deployment phase
* Working on continuous deployment cycle which involves writing the code, testing, deploying and managing it by using **chef** and **ansible** over the cloud, on-premises and hybrid environments
* Worked on open source SCM tools like **Subversion, CVS, git, and bitbucket**
* Involved in committing, trunking, pushing, merging code pull requests from multiple developers into **SCM** (git, bitbucket, svn) repositories.
* Deployed DevOps using **Puppet** dashboard and Puppet DB for configuration management to existing infrastructure and developed the Puppet manifests creation, testing, and implementation.
* Implemented multi-tier application provisioning in **open stack cloud**, integrating it with Chef, migrating the application using MAVEN as build tool.
* Installed and configured Essex, Folsom and Grizzly (multi-node architecture) versions of Open stack.
* Implemented horizontal auto-scaling in **Open stack cloud**, integrating it with **Chef.**
* Installation, Configuration, and Maintenance of **Apache Tomcat, Web Sphere and JBoss servers** in AIX and Linux environment.
* Installed and configured Apache on **RHEL**, Integrated Apache Web Server to communicate with Web Sphere.
* Generated scripts in **Maven, Perl & Bash Shel**l for build activities in QA, Staging and Production environments.
* Configured and maintained **Jenkins** and **Docker** for Continuous Integration and end to end automation of all build and deployments, also have good knowledge on Code Deploy as release automation solution.
* Involved in creating **Dynatrace& App Dynamics** dashboard and reports using built-in and/or custom measures to present testing and analysis results effectively.
* Integrated the Jenkins with **GIT** to poll codes and Maven to push artifacts to **AWS S3.**
* Worked on deploying java j2ee and .net applications
* Scheduled the **Linux Cron jobs and Jenkins jobs** for build automation. Developed **Perl** and **shell** scripts for automation of the build and release process.
* Knowledge in **DNS, NIS, NFS, FTP, Samba Server, LDAP**, **remote access, security managemen**t, and system troubleshooting skills
* Expertise with virtualization technologies, installed and configured **VMware** environments, created numerous Virtual Servers and, involved in troubleshooting critical hardware and software issues and user tickets.

**Environment:** Oracle 10g/11g, Informatica Power Center 8.1(Power Center Designer, workflow manager, workflow monitor), SAP Business Objects 3.1 – Crystal Reports and Dashboard, HP QC 9.0/11.0, SQL developer, TOAD, SQL and PL/SQL, Web Services.

**Axis Bank – Hyderabad, India March 2013 – July 2016**

**Associate Consultant**

* Automated **testing build** and **deployment** by developing and maintaining the processes and associated **scripts/tools**.
* Development of Scheduled tasks and **UNIX** scripts and Perl to maintain and automate the Build process.
* Mentored and trained project members in Building and configuring **Red Hat** Linux Servers using KickStart server as required for the project.
* Administered Bamboo servers which include install, upgrade, backup, adding users, creating plans, installing the local/remote agent, adding capabilities, performance tuning, troubleshooting issues, and maintenance.
* Configured and maintained the **Shell/Perl** deployment scripts for Web logic and UNIX servers. Analyzed the **Maven Build** projects for conversion.
* Employed **Puppe**t to configure production and test infrastructure provisioned with Apache, Nginx and MySQL.
* Written Bash **shell scripts** for getting information about various Linux servers and prepared **Ruby** codes, programming of web applications and testing services on daily basis.
* Used **Bugzilla** for bug tracking and reporting, also followed up with the development team to verify bug fixes, and update bug status.
* Converting the **ANT** Build projects to Maven Build projects. Experience in development of build scripts using **Ant, Maven.**
* Used combination of **Puppet** Master, R10K Wrapper, **Git** Enterprise, **Vagrant** and Simple UI(Jenkins) developed a puppet module for automation.
* Resolved update, merge and password authentication issues in **Bamboo** and **JIRA**.
* Working closely with Web Administrators to understand, participate, and experience the technical architect for web sites such as **Apache, JBoss, WebSphere, WebLogic and deploying J2EE** Applications to these environments
* Involved in writing **Ant** and **shell** scripts for compilation and deployment process.
* Installing, upgrading and configuring Linux Servers using **Kickstart** as well as manual installations and the recovery of root password.

**Environment:** Red Hat Enterprise Linux, Maven, Shell/Perl Scripting, ANT, Maven, Splunk, Puppet, Ngnix, Ruby, Vagrant, Bamboo, JIRA.

**Education :** Master of Science from **Cleveland State University**, Cleveland, OH