**Praveena**

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**Professional Summary:**

* Over 8+ years of IT Industry experience as a DevOps engineer with expertise in areas of Software Configuration and Cloud Management, and GIT on UNIX and Windows Environment.
* Experience in creating DevOps strategy in a combination of mixed environments of Linux with creating and implementing a cloud strategy based on Amazon Web Services (AWS).
* Extensive knowledge in Automation, Configuring and Deploying instances on Amazon web services (AWS) components like EC2, ELB, Auto scaling, S3, VPC, Route53, Cloud Watch, Cloud Trial, Cloud Formation Template, Elastic Beanstalk, IAM, Security Groups, CloudFront, SNS, VPCs, DynamoDB, Lambda.
* Expertise in AWS Command line interface and PowerShell for automating administrative tasks.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic reaching one or more AWS EC2, LAMBDA instances.
* Experience in orchestrating the containers using Kubernetes. Implemented Continuous Integration/Continuous Deployment and Delivery processes using Jenkins/Hudson, Chef, Puppet.
* Created and Maintained Chef Recipes and cookbooks to simplify and expedite deployment of applications and mitigate user error.
* Extensive knowledge on working with the Configuration/Deployment Tools like CHEF (Knife, recipe, cookbook), ANSIBLE (Playbook, inventory) and PUPPET (Puppet manifests, catalog).
* Experience in working with Chef Enterprise and Chef Open Source, Chef DK, Chef Workstation, Chef Server, Chef - Client, Chef-attributes.
* Automated Provisioning and App Servers Configuration in all three environments using Puppet and Chef Configuration management tools.
* Skilled in deploying microservices-based architectures on AKS for high availability and scalability.
* Knowledgeable in using Helm for package management and Kubernetes Operators for automating complex tasks.
* Extensive experience in Chef for Planning to organize attributes, Roles, Recipes, Environments, writing cookbooks, setting up continuous integration system for Cookbooks.
* Experience in working with Version Control Systems/ Source Code Repository tools like Subversion, GIT, CVS, GitHub, Performance maintaining/troubleshooting the CM tool in UNIX and Windows environments.
* Excellent experience in continuous deployment using IT configuration tool Ansible. Valuable experience on implementing Jenkins builds pipeline flow to handle complex build workflows.
* Configured Jenkins Monitor, List and Build views to displays the status and progress of selected jobs with build version information. Experience in monitoring tools like Nagios, AWS CloudWatch.
* Hands-on experience in Terraform to transform the infrastructure from on-premise to cloud.
* Worked on Docker Container snapshots, attaching to a running container, removing images, managing director structures and managing containers
* Experience in working with container-based deployments using Docker, Docker images, Docker file, Docker Hub, Docker Compose and Docker registries.
* Used Kubernetes during debugging. Leading up to production when multiple application build must be tested for stability.
* Knowledgeable about Kafka Connect for building data pipelines between Kafka and external data sources/sinks.
* Experience in Shell, bash scripting, Python, and Ruby scripting. Utilize Chef for configuration management of hosted Instances within AWS.
* Hands on experience with build tools like, Team City, Sonar, Bamboo, Maven, and ANT.
* Worked with different Bug tracking tools like JIRA, Rally, and Remedy.
* Supported the application in production and worked closely with off-shore teams.
* Creating fully automated CI build and deployment infrastructure and processes for projects Using Docker, Jenkins, VMware, Kubernetes, Artifactory, Ansible & GitLab
* Extensively worked on Jenkins, Udeploy, Docker, and Team City and for continuous integration and for End to End automation for all build and deployments.
* Implementing new projects builds framework using build tools like MAVEN and ANT for the building of deployable artifacts (jar, war & ear) from source code.
* Involved in setting up JIRA as defect tracking system and configured various workflows, customizations and plugins for the JIRA bug/issue tracker.

**Technical Skills:**

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| **Operating Windows** | Windows, Linux/Unix, Red Hat, VMware, Mac OS |
| **Configuration/Automation Tools** | Chef, Puppet, Jenkins, NEXUS. |
| **Containerization Tools** | Docker, kubernetes. |
| **Versioning Tools** | GIT, SVN, and Bit Bucket |
| **Bug Tracking Tools** | JIRA, Rally, Remedy |
| **Build Tools** | TeamCity, Bamboo, Maven, ANT |
| **Cloud** | AWS, Open Stack, EC2, S3, RDB, ELB, EBS, VPC, Auto Scaling, DynamoDB. |
| **Database** | SQL 2005/08/12/14. Oracle, MySQL, No SQL, MongoDB |
| **Management Tools / Version Control Tools** | Service Now, Confluence, GitHub/Git, SVN, Clear Case, Subversion, TFS, and VSTS. |
| **Scripting** | Python, shell, Ruby |
| **Application/Web Servers** | WebLogic, WebSphere, Apache Tomcat, JBoss, HTTP server |

**Work Experience:**

**Client: Exeter Finance-Irving, TX Nov 2022 - Present**

**DevOps Engineer**

**Responsibilities**:

* Implemented a Continuous Delivery pipeline with Docker and GitHub and AWS.
* Experience setting up instances behind Elastic Load Balancer in AWS for high availability. Configured the storage on S3 Buckets.
* Set-up databases in AWS using RDS, storage using S3 bucket and configuring instance backups to S3 bucket.
* Performance tuning the tables in Redshift, data Validation, Quality check in Redshift using Python.
* Installing and configuring Ansible in AWS EC2 instances using Python and automated the cloud deployment using AWS, AWS CLI, Python and AWS cloud formation templates.
* Worked on AWS Lambda to run the code in response to events, such as changes to data in an Amazon S3 bucket, Amazon DynamoDB table, HTTP requests using AWS API Gateway and invoked the code using API calls made using AWS SDKs.
* Worked on AWS costs by writing the Ansible Playbooks for auto Start/Stop of AWS resources at the time of the day by triggering it from Jenkins.
* Data Profiling, Mapping and Integration from multiple sources to AWS S3/RDS/Redshift.
* Deploy and monitor scalable infrastructure on Amazon web services (AWS) and configuration management instances.
* Managed servers on the Amazon Web Services ( AWS ) platform using Chef configuration management tools and Created instances in AWS as well as migrated data to AWS from data Center
* Managed both framework and Cloud Formation to automate AWS environment creation along with the ability to deployment on AWS, using build scripts (AWS CLI) and automate solutions using Shell and Python.
* Worked on creating the Virtualization of the servers on AWS with the use of tools like Docker, build the Docker image and version control to meet the objective of Continuous Delivery goal on a highly scalable environment.
* Integrated Jenkins and Kubernetes with GCP to perform semi-automated and automated releases to lower and production environments.
* Capable of implementing CI/CD pipelines with tools like Azure DevOps or Jenkins for continuous integration and deployment on AKS.
* Used AWS Elastic Beanstalk for deploying and scaling web applications.
* Deploying and configuring Elasticsearch, Logstash, Kibana (ELK) and AWS Kinesis for log analytics and skilled in monitoring servers using Nagios, Splunk, AWS CloudWatch, ELK.
* Designed and developed infrastructure using Terraform and Cloud Formation and automated end-to- end transit hub connectivity resource deployment in AWS via Terraform.
* Worked with configuration Management tool - Ansible, have setup Ansible projects and configured the playbooks for the micro services.
* Working with GIT to store the code and integrated it to Ansible Tower to deploy the playbooks.
* Managed Ansible Playbooks with Ansible roles.
* Create clusters in Google Cloud and manage the clusters using Kubernetes(k8s).
* Using Jenkins to deploy code to Google Cloud, create new namespaces, creating docker images and pushing them to container registry of Google Cloud Involved in writing python scripts for automation.
* Created service in Ansible for automation of the continuous deployment.
* Orchestrated and migrated CI/CD processes using Cloud Formation and Terraform Templates and Containerized the infrastructure using Docker, which was setup in AWS and VPCs.
* Created and managed daily/weekly builds using Jenkins for CI/CD and used pipeline plug-in for managing multi project jobs efficiently. Used Terraform for server provisioning.
* Written, Planned and Created the Infrastructure as code using Terraform and used it to create infrastructure in AWS and maintained using Ansible and Implemented Terraform modules for deployment of applications across multiple cloud providers.
* Expertise in writing new plugins to support new functionality in Terraform. Managed AWS infrastructure as code using Terraform.
* Installed Jenkins/Plugins for GIT Repository, Setup SCM Polling for Immediate Build with Maven and Maven Repository (Nexus Artifactory) and Deployed Apps using custom Ruby modules.
* Designed and implemented the GCP Organizations setup, Project setup, IAM access and GCP Service Account setup for development, QA and production support teams.
* Developed and maintained automated tools for internal department workflows utilizing Ruby and Python.

**Environment:** AWS, Docker, Kubernetes, Github, Ansible, Puppet, Python, Shell, Chef, Nagios, Splunk, Terraform, Ruby, Maven, Git, GCP, Jenkins.

**Client: Mariner Finance-Baltimore, MD Mar 2021 – Oct 2022**

**AWS/DevOps Engineer**

**Responsibilities:**

* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, NodeJS, Python and Docker on familiar server such as Apache.
* Created snapshots and Amazon Machine Images (AMI) of the instance for backup and created Identity Access Management (IAM) policies for delegated administration within AWS.
* Worked on Amazon AWS EC2 cloud services for build, configuring and troubleshooting on various Amazon images like Amazon Linux AMI, Red Hat.
* Worked on Open Stack, AWS Cloud Formation, and Terraform API to create infrastructure on AWS as a code.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform, Managed AWS infrastructure as code using Terraform.
* Scheduled, deployed and managed container replicas onto a node cluster using Kubernetes.
* Managed Kubernetes charts using Helm and creating reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Managed releases of Helm packages .
* Expertise in writing new plugins to support new functionality in Terraform.
* Converting existing AWS infrastructure to server less architecture (AWS Lambda, Kinesis) deployed via Terraform or AWS Cloud formation.
* Implemented GCP cloud solutions cloud SQL, storage bucket, cloud DNS, GKE Auto scaling groups in k8s cluster.
* Created the AWS VPC network for the Installed Instances and configured the Security Groups and Elastic IP's accordingly.
* Installing the Load Balancers and VPC with Public and Private Subnets.
* Version control through Git hub, Confluence for documentation and Automated Gerrit code review took to drive changes through Ansible.
* Capable of tuning Kafka performance parameters and monitoring Kafka clusters using tools like Confluent Control Center or Prometheus/Grafana.
* Experience in automating writing Ansible playbooks in YAML to manage Web Applications, Config Files, Commands, software rollout, packages.
* Developed Python/Flask applications with MongoDB, Flask-mongo engine and deployed them to the cloud.
* Experience with Ansible Tower to manage Multiple Nodes and Manage Inventory for different Environments
* Used Ansible Tower for scheduling playbooks and used GIT repository to store our playbooks.
* Experience in creating inventory, job templates and scheduling jobs using Ansible Tower.
* Built scripts using ANT and MAVEN build tools in Jenkins, SonarQube and Nexus to deploy J2EE applications to server one.
* Installation, Configuration and Management of RDBMS and NoSql tools such as MySQL, PostgreSQL, MongoDB, Cassandra and Redis.
* Integrating the Third Party Tools with TFS for ALM & Traceability.
* Experience in creating Docker Containers leveraging existing Linux Containers and AMI's in addition to creating Docker Containers.
* Experience in using tools like Docker Compose, Kubernetes, etc. for orchestrating, linking and deploying the services related to the containers.
* Used Kubernetes during debugging. Leading up to production when multiple application build must be tested for stability.
* Used Test driven approach for developing the application and Implemented the unit tests using Python Unit test framework.
* Indexed MongoDB, S3 and CloudWatch logs using Elastic Stack.
* Experience on centralized logging (Data) and monitoring tools such as Elasticsearch, Logstash, and Kibana (ELK), Splunk dash boards for search and reporting and managing the dashboard access.

**Environment:** Amazon Web Services, IAM, S3, cloud watch, GCP, Kubernetes, TFS, ANT, Maven, SonarQube Tortoise SVN, GitHub, Chef, Ansible, Docker, Java, MongoDB, Agile, Apache Tomcat, JBoss, Bash, Shell, Python, Ruby.

**Client: First Merchants Corporation-Muncie, IN Jul 2018 – Feb 2021**

**DevOps Engineer**

**Responsibilities:**

* Managing Amazon Web Services infrastructure with automation and orchestration tools such as Chef.
* Involved in writing Java API for Amazon Lambda to manage some of the AWS services.
* Used security groups, network ACL's, internet gateways and route tables to ensure a secure zone for organization in AWS Public Cloud.
* Created and configured elastic load balancers and auto scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
* Configured S3 buckets with various life cycle policies to archive the infrequently accessed data to storage classes based on requirement.
* Used IAM for creating roles, users, groups and implemented MFA to provide additional security to AWS account and its resources.
* Installed Workstation, Bootstrapped Nodes, wrote Recipes, and Cookbooks and uploaded them to Chef-server and managed AWS for EC2/S3 & ELB with Chef Cookbooks.
* Written Chef Cookbooks for installing Tomcat, JBoss, Nginx, WebLogic, WebSphere and for configuring load balancers and fail over.
* Manage deployment automation using Puppet, Custom Puppet Modules and Ruby. Written manifests/Recipes and Ruby scripts to customize the Puppet as per our environment.
* Creating new Jenkins master and slave servers for production usage and responsible for configuring them as per the Business partner's request.
* Responsible for maintaining and troubleshooting issues related to several Projects Life cycle tools such as Jenkins, Test link, Subversion.
* Installed Splunk from Puppet module tool (PMT) from command line.
* Responsible for creating puppet modules and manifest files from scratch and experience in editing existing puppet manifests and automated manual installation processes using puppet.
* Involved in several production Implementations and managed deployment processes via DMS and Puppet.
* Responsible for design and maintenance of the GIT Repositories.
* Designed Puppet Modules to manage configurations and automate installation process.
* Created GIT repositories with standard directory layout of trunk, branches, tags and customized directory based on business/project need.
* Working on AGILE SCRUM environment by using VSTS for attending meetings with staff and update them regularly through Scrum Master for Code Review meetings, Implemented User stories.
* Built JIRA Change for Request change model to support and track changes made to the test/prod systems. Developed procedures to unify, streamline and automate application development and deployment procedures with CLI and Linux container technology using Docker (POC).
* Created Docker file for each microservices and changed some of the tomcat configuration file which are required to deploy Java based application to the Docker container.
* Used Docker environment host inside of a Docker host (Docker-in-Docker) for their build environments.

**Environment:** Puppet, GIT, TFS, Jenkins, Shell, TOMCAT, JIRA, VMware, Apache, WebLogic, Maven, Docker, Splunk.

**Client: BancFirst-Oklahoma City, OK Jan 2016 – Jun 2018**

**DevOps/Cloud Engineer**

**Responsibilities:**

* Automated infrastructure in cloud using amazon web services and Configuring EC2 Instances, VPC, Route 53, ELB, and Subnets and used Amazon Route53 to manage DNS zones and give public DNS names to elastic load balancers.
* Created alarms in CloudWatch service for monitoring the servers performance, CPU Utilization, and have insight in the monitoring tool namely, Nagios.
* Responsible for build and deployment using Docker and ECS containers.
* Created an AWS RDS Aurora DB cluster and connected to the database through an Amazon RDS Aurora DB Instance using the Amazon RDS Console.
* Configured an AWS Virtual Private Cloud (VPC) and Database Subnet Group for isolation of resources within the Amazon RDS Aurora DB cluster.
* Implemented a Continuous Delivery framework using Jenkins, Chef, Maven & Nexus in Linux environment
* Migrated configuration management from Puppet to Chef
* Created Service accounts, VM instances, VPC networks using Terraform on GCP.
* Experienced in defining API specifications, including authentication, authorization, rate limiting, and caching policies.
* Skilled in versioning APIs and managing their lifecycle through development, testing, and production stages
* Managed Chef cookbooks to automate system operations and AWS Cloud management.
* Implemented Chef Recipes for Deployment on build on internal Data Centre Servers. Also re - used and modified same Chef Recipes to create a Deployment directly into Amazon EC2 instances.
* Implemented environments, roles, data bags in Chef for better environment management.
* Automated infrastructure in AWS with Chef, Ruby, and maternal unit, Created EC2 Instances and VPC network and assigned Roles and permissions via IAM key management.
* Created Jobs in Jenkins by setting up global permissions and scheduling jobs using poll SCM.
* Designed, Created and Managed Continuous Build and Continuous Integration environments in Agile projects, combining and automating tools like Selenium, XUnit and Web Driver with build processes to provide detailed Metrics and rapid feedback for development teams.
* Configured Jenkins as a CI engine to build and promote applications to QA, UAT and Staging environments.
* Created Splunk app for 0365 Security to identify and address emerging security threats using continuous monitoring, alerting and analytics.
* Worked in a group running Jenkins in a Docker container with EC2 slaves in Amazon AWS cloud configuration. Also gain familiarity with surrounding technologies like Kubernetes.
* Implemented a Continuous Delivery pipeline with Docker, and GitHub and AWS.
* Instructed teams on best practices around PCF and Spring Boot.
* Created continuous integration system using GIT, Maven, Jenkins, JFrog, and AWS Code Deploy for full automation, Continuous Integration, faster and flawless deployments.

**Environment:** AWS, Jenkins, Puppet, Chef, Terraform, GCP, Maven, Nagios, Docker, Agile, Kubernetes, Github, Jfrog, Ruby, Selenium WebDriver.