**Bhavya Perumalla**

## Objective:

To be associated with a progressive organization that gives scope to apply my knowledge and skills and to be part of a team that dynamically works towards growth of the organization.

## Professional Summary:

* Acquired 11 years of IT experience as a **DevOps Engineer** in the field of DevOps Automation/AWS Cloud/ Iac Developer/Middleware Administrator/Application support/.
* I have received multiple awards in the field of automation, learning and development along with awards received for showing good leadership and innovative ideas in various Tech and Non-Tech events
* Experience in **AWS** to create, manage and configure the services like **ALB, ASG, EC2, IAM, S3, EBS, Route53, RDS, Security Groups, Cloud Formation, Cloud Front, Secrets manager, Cognito, Lambda, WAF, Event Bridge, EKS**, and **VPC** along with automating the restart of **EC2 & RDS**.
* Hands on experience in automating **Cl & CD pipeline** using **Jenkins tools**.
* Experience in setting up **CI/CD pipelines** – **GitHub actions** to automate the deployment of infrastructure.
* Experience in developing **Infrastructure as Code** using **Terraform** for resources on **AWS Cloud**.
* Contributed in developing modules in **Terraform** for AWS services like Automate start/stop of **EC2/RDS instances** using **AWS System Manager**
* Expertise in **creating & maintaining the infrastructure** for different Environments.
* Proficiency with Configuration Management tools & Build management tools such as **Git, Ansible** and **Jenkins**.
* Worked on installing/upgrading **Jenkins Master/Slave** on multiple servers and also involved in the release process and **deployed applications** (WAR and JAR) and UI binaries to the Apache Tomcat server
* Expertise in setting up **Kubernetes Cluster** on both **On-Prem and on Cloud**. Expertise in working with **Kubernetes Security**, **Volumes, Integration of Helm with Kubernetes, Integration of Data Dog with Kubernetes**
* Created manifests for **Kubernetes Deployments** for Critical Applications.
* Experience in invoking **REST API’s** and storing responses in JSON files using **Python**.
* Experience in reading property JSON files using **Python**
* Expertise in working and Supporting Application servers like **WebLogic, Tomcat, Jboss.**
* Involved in Setting up Apache **Kafka, Broker setup, zookeeper setup, Replicas,** and partitions as part of Topic Configurations
* Involved in Testing API messages using **Postman** and verifying log messages using **Splunk**
* Expertise in Setting up **monitor and Alerting dashboards** for **Kafka metrics using Grafana and Prometheus**
* Managedsmall scale multiple – nodes with in **Kafka Cluster** environment.
* Expertise in working on **Kafka Connect**, exporting data from **Kafka to S3 Bucket**, **converting xml to Jason using Avro**
* Handson experience in creating **Docker files** andthen building images and deploying into various environments.

## Technical Skills:

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| Version Control System Tool | Git |
| Operating Systems | Linux, Windows |
| Configuration Management | Terraform, Ansible |
| Scripting | Groovy Scripting, Shell Scripting |
| Build Tools | Gradle, Maven |
| Database | MySQL |
| Web Server | Apache httpd |
| Application Server | WebLogic, Tomcat, JBoss |
| Application Monitoring Tools | Grafana, Prometheus, Nagios |
| Continuous Integration Tools | Jenkins |
| Cloud Environment | AWS (EC2, ALB, ASG, S3, IAM, Route 53, Certificate Manager, EKS, Lambda, WAF, Cloud Formation, Clou Front, RDS, Secrets manager, Cognito, ALB, ECR ..) |
| Container And Orchestration Tool | Docker, Kubernetes |
| Bug Tracking Tool | Jira |
| Other | Apache Kafka |

## Educational Qualifications:

Master of Computer Applications May 2007-June 2010

Periyar University, Salem, Tamil Nadu, India – 85%

## Professional Experience:

**Employment Experience 1:**

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| Project: | Total Energies |
| Client: | Total Energies |
| Designation: | Senior Consultant |
| Duration | From Nov 2022 to till date |
| Environment: | Splunk, Docker, Kubernetes, AWS, GitHub actions, Terraform, HashiCorp Vault |

**Roles and Responsibilities:**

* Responsible for creation and maintenance of various cloud services on AWS using Terraform
* Developed Terraform scripts for applications, referring the architecture and deploy the infrastructure on different environments (Dev, Pre-prod, Prod, QA)
* Use CI/CD pipelines – GitHub actions to automate the deployment of infrastructure
* Create test cases for the script using Kitchen, written cookbooks/recipes for better implementation of script and elaborated the usage of Kitchen to the clients
* Exposure to Terratest Go testing framework for automated testing of Infrastructure code
* Experience with AWS - AWS S3, Elastic Beanstalk, EC2, VPC, ECR, Load Balancers, Certificate manager, Route 53, IAM & more
* Deployed AWS WAF on Amazon cloud front and application load balancer using Terraform
* Monitoring and troubleshooting of production infrastructure with Amazon CloudWatch
* Use CI/CD pipelines – GitHub actions to automate the deployment of infrastructure
* Contributed in developing modules in Terraform for AWS services like Automate start/stop of EC2/RDS instances using AWS System Manager
* Experience in working with Continuous Deployment pipeline using AWS Code pipeline
* Involved in Automating the schema validation process for databases MySQL databases using Python
* Experience in invoking REST API’s and storing responses in JSON files using Python.
* Experience in reading property JSON files using Python
* Implemented Kubernetes setup in both on-premises and on AWS cloud using Amazon EKS.
* Worked on Integrating Helm with Kubernetes.
* Experience in setting up Kubernetes Security, Volumes
* Experience in setting up Datadog in Kubernetes Environment
* Good knowledge on all the Kubernetes core concepts that are needed for Administration including CRD’s
* Implemented restricted options in Terraform on AWS for configuring Database secret values.
* Experience with AWS Security services such as IAM, Amazon Cloud watch, WAF, Secrete Manager
* Worked in an Agile team as a Code developer for a fast-paced software development and to achieve client satisfaction and on-time completion
* Responsible for providing technical support for onsite team/clients on escalations
* Mentoring Colleagues who are newly introduced to the technology or domain to improve their knowledge on AWS and Terraform (Infrastructure as code)

**Employment Experience 2:**

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| Project: | Country Road David Jones |
| Client: | Lime Point |
| Designation: | Fusion Middleware Administrator |
| Duration | From Jan 2021 to Aug 2022 |
| Environment: | Confluent Kafka, Docker, Kubernetes, AWS, Git, Red hat, Atlassian, Grafana, Prometheus, WebLogic, Influx DB, Splunk |

**Roles And Responsibilities:**

* 5+DevOps Engineers to initiate & implement automation for executing complex pipelines
* Collaborating with internal team members and departments to spread the culture of DevOps
* Coordinating with developers & QA to assess performance & testing
* Implementing automation for continuous integration and deployment using GIT, Jenkins, Ansible
* Assisting the Development teams for executing various automation and configuration tasks
* Managing Linux based client infrastructure and handle the testing, staging and production scenarios of client products
* Creating, developing & managing the deployment architecture for various applications
* Create clusters in cloud and manage the clusters using Kubernetes
* Implemented Kubernetes setup in both on-premises and implemented autoscaling for WebLogic servers
* Used Jenkins to deploy code
* Experience in Designing, Architecting, and implementing scalable cloud-based web applications using AWS
* Setup Alerting and monitoring using Grafana and Prometheus
* Setup Monitoring dashboard for Influx DB
* Monitoring and troubleshooting of production infrastructure with Amazon CloudWatch, Garylog
* SSL Configurations between Apache web server and JBoss
* Setup Kubernetes environment on On-Premises
* Experience with Splunk
* Testing API messages using Postman and verifying log messages using Splunk
* Implemented Auto scaling for WebLogic servers on Kubernetes using Helm
* Experience in Writing YAML files, Deployment files and Service files
* Managing container PODS and Kubernetes Nodes
* Involved in creating monitor setup for Kafka metrics using Grafana and Prometheus
* Involved in setting up Confluent cloud, exporting data from Kafka to S3 bucket
* Involved in Converting xml to Jason using Avro
* Involved in Creating sink and source connectors for JMS to import and export data using Kafka Connect
* Involved in setting up Confluent CLI, environment creation, cluster creation, configuring service accounts, assigning ACLS to topics
* Involved in launching all services in Confluent Platform using docker-compose, that includes Broker setup, zookeeper setup, Connect configurations, and schema registry
* Involved in Setting up Kafka, Broker configurations, Replicas, and partitions as part of Topic Configurations

**Employment Experience 3:**

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| Project: | Integration team |
| Client: | Chicago Mercantile Exchange |
| Designation: | Associate Specialist - Technology |
| Duration | From March 2019 to Dec 2020 |
| Environment: | Docker, Kubernetes, AWS, Git, Red hat, Atlassian, WebLogic, Jenkins, Puppet, Postman |

**Roles and Responsibilities:**

* Involved into migration activity of existing servers from on-premises to AWS cloud using Virtual Private Cloud (VPC)
* Designed and implemented Cloud solutions with AWS Virtual private cloud (VPC), Elastic Compute Cloud (EC2), Elastic Load Balancer (ELB), S3, Auto Scaling, Cloud Watch, and other AWS services
* Designed and implemented 3 tier architecture with Web, Application and database servers using Elastic Load balancer (ELB) with Route 53 DNS registered
* Involved in creation of monitors, alarms, and notifications for EC2 hosts using Cloud Watch
* Involved in working with Authorization and authentication using IAM policies
* Create Server instances on AWS, Increasing Server disk size, server backup, starting and stopping the server instances, restoring the snapshots, providing security groups for applications, creating elastic IP’s Associate and disassociate Elastic IPS in AWS
* Ansible infrastructure and playbook Environment
* Implemented testing Environment for Kubernetes and Deploying the Kubernetes Cluster
* Involved in writing deploy files and service files in Kubernetes in YAML for auto-scaling of services
* Developed environment provisioning solutions using Docker
* Build and deploy packages through Jenkins
* Used puppet repository to deploy scripts and packages to remote servers
* Provided technical consultancy on upgrades and patching requirements
* Coordinate change releases as part of standard process
* Experience on Apache Tomcat and Linux Environment
* Expertise in Deploying of applications in various environments like Development, QA, testing for various applications servers

**Employment Experience 4:**

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| Project: | Payment per Plan |
| Client: | Wells Fargo |
| Designation: | Senior Associate - Technology |
| Duration | From March 2018 to March 2019 |
| Environment: | WebLogic, JBoss, Tomcat, Shell scripting, HPSA, Splunk, BMC Remedy, MYSQL |

**Roles and Responsibilities:**

* Responsible for interacting with client to provide technical consultancy and developing customized web & middleware solutions for client to address their business challenges
* Advise on architecture, design, security, upgrade, performance, and capacity of the web & middleware environments. Design, document, implement and perform operational procedures
* Install, configure, monitor, administer and performance tuning of support Middleware Technologies like WebLogic, WebSphere, Tomcat, JBoss, Oracle Http Server
* Installed and configured IBM HTTP Server
* Configured and Enabled the Global Security System WAS Administration for console users and console Groups
* Responsible for creating clusters and implemented horizontal and vertical scaling
* Configuring cluster for load balancing and for high availability
* Creation of Connection Pools in WebSphere & WebLogic Server, handling deployments of an application in Server
* Configure a new domain, manage server logs, and monitor server activities, configuration of server properties
* WebLogic Administration acts as an effective interface between client and vendor responsible for verifying logs, application log, and WebLogic logs
* Troubleshooting an application in Server and JVM tuning
* Deploying applications, configuring JDBC connection pools, Data Sources etc.
* Deployed applications using deployment scanner, console to the standalone and domain based JBoss instances
* SSL certificate management like installing and renewing SSL certificates of all Oracle fusion middleware components
* Applying regular patches and patch fixes provided by Oracle using Opatch utility
* Having handgrip on Setting up highly available clustered JBoss application server environment using multiple standalone instances and domain managed servers
* Integration of APACHE server with JBoss application server using mod\_jk, mod\_cluster, mod\_proxy plugins
* Expertise in migration and up gradation of WebLogic Server and updating JDK versions, applying patches and installing service packs for WebLogic server
* Provide BAU support including (but not limited to):  
  Incident & Problem management - Solution/troubleshooting of technical incidents in production environment. Analysis of repeating incidents and preparation of root cause analysis  
  Change management - Implementations of changes (configuration, deployment, installation)  
  Disaster recovery management - Develop, document, and implement business continuity and contingency plans
* Provided 3rd level technical support for Web & Application production issues. Analyzed and troubleshoot configuration & outage issues, tracked & documented problems and resolutions in incident reports, and mitigated risks which impacted production stability
* Addressed and improved Web & Application infrastructure security against information disclosure and security vulnerabilities by following best practices, making configuration & architecture changes
* Provide 24x7 supports for the web & middleware production environments

**Employment Experience 5:**

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| Project: | Compu mark |
| Client: | Thomson Reuters |
| Designation: | Application Support Engineer |
| Duration | From March 2016 to March 2018 |
| Environment: | JBoss, Tomcat, AWS, Gray log, Jenkins, Puppet, Nagios, True Sight, Service Now, Shell Scripting, Red Hat, Oracle Linux |

**Roles and Responsibilities:**

* Worked as Application Support Engineer (with a team size of 12) with 24/7 on call support to Thomson CompuMark applications (URL (<http://www.compumark.com>)
* Work with different flavors of Linux Servers (Red Hat, Oracle Linux)
* Deployed application EAR, WAR & JARs on WebLogic, JBoss and WebSphere Application Servers
* Understanding and troubleshooting complex customer issues on production/stage environment
* Monitoring of Application Availability through foglight, Nagios, SiteScope and Xymon monitoring tool
* Involved in migrations and up gradation of application servers
* Modify/create UNIX shell scripts for scheduling various data cleansing scripts and loading process
* Responsible for configuration, troubleshooting, management, and optimization of servers
* Configuration and deployment of servers through puppet
* Creating puppet agent on all the servers and create puppet key for servers
* Managing the continuous integration of code through Jenkins and managing the code through GitHub
* Managing Tomcat Server installation, configuration, and Administration part
* Worked on migration of application server from one DATA center to another
* Worked on Amazon web services - EC2, EBS, ELB, Route 53, S3, Auto-scaling, Cloud Trail
* Worked on configuring gray log for AWS instances
* Worked on DR plans (Disaster Recovery) for the applications and tested DR setup once in a year
* Worked with Dev team and other team to fix application issues.

**Employment Experience 6:**

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| Project: | VFS |
| Client: | Xerox |
| Designation: | Senior System Analyst |
| Duration | From July 2012 to March 2016 |
| Environment: | WebLogic, JBoss, Tomcat, Linux, Shell Scripting |

**Roles and Responsibilities:**

* Responsible for testing of the applications
* Involved in the installation of WebLogic Server
* Configuring cluster for Load Balancing and High availability
* Creation of connection pools in WebLogic Server, handling deployments of an application in server
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* Involved in the installation of Weblogic Server
* Configuring cluster for Load Balancing and High availability
* Creation of connection pools in Weblogic Server, handling deployments of an application in server
* Configure a new domain, manage server logs, and monitor server activities
* Troubleshooting applications
* Responsible for 24/7 server and environment availability
* Deploying applications using shell scripting, configuring JDBC, JMS and Data sources
* Installed JBoss on UNIX environment
* Deployed applications on JBoss using deployment scanner and console
* Experience in setting up highly available clustered JBoss application server environment using multiple, standalone instances and domain managed servers
* Integration of APACHE server with JBoss application server using mod\_jk, mod\_cluster, mod\_proxy plugins
* Expertise in migration and up gradation of WebLogic server and updating JDK versions, applying patches and installing service packs for Weblogic server
* Troubleshooting issues related to application slowness, out of memory issue
* Involved in resolving tickets on priority

## Trainings And Certifications:

**Confluent Certified Developer for Apache Kafka Certificate ID: 35735728**