**Bhashwanth Kattubadi**

**AWS/DevOps Engineer**

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**PROFESSIONAL SUMMARY:**

* Around **5+ y**ears of experience in IT industry comprising of build release management, software configuration, design, development and cloud implementation.
* Worked on designing, deploying and operating highly available, scalable and fault tolerant systems using **Amazon** **Web Services (AWS).**
* **Experienced in implementing Organization DevOps strategy in various operating environments** of Linux and windows servers along with cloud strategies of **Amazon Web Services**.
* Developed **Enterprise Cloud capabilities**, and all cloud service **types: Iaas, Paas and Saas.**
* Experience in Administration/Maintenance of Source Control Management Systems and version control tools such as Sub Version (**SVN), GIT, GITHUB, BIT Bucket and Gitlab.**
* Proficient in writing **Cloud Formation Templates (CFT) in YAML and JSON** format to build the A**WS services** with the paradigm of **Infrastructure as a Code.**
* Implemented serverless architecture using API Gateway Lambda and Dynamo DB and deployed AWS Lambda code from **Amazon S3 buckets**. Created a lambda deployment function and configured it to receive events from S3 bucket.
* Setting up databases in **AWS** using **RDS, storage using S3 buckets and configuring instance backups to S3 bucket.**
* Excelled on creating **AMI (AWS Machine Images**) that utilizes **ELB (Elastic Load Balancer**) and **Auto Scaling**.
* Experienced with event-driven and scheduled AWS Lambda functions to trigger various AWS resources.
* Implemented automation using Configuration Management tools like **Ansible, Chef, and Puppet**.
* Strong experience in analyzing chunk migrations, splitting and balancing across the cluster.
* Develop automation and processes to enable teams to deploy, manage, configure, scale and monitor their applications in data centers and in cloud.
* Experience in designing test **framework / Harness** for large enterprise s/w applications.
* Expertise in customizing **Splunk f**or monitoring and application management.
* Java and **Node J**S built applications deployment using Jenkins and Chef Environment. Solid ability to create automation with Ansible or a shell.
* Involved in standardizing **Splunk forwarder** **deployment, configuration and maintenance**.
* Designing, implementation and support of Linux infrastructure that utilizes both cloud based and physical servers.
* Involved in the functional usage and Deployment of Applications in WebLogic, WebSphere and Apache Tomcat Server.
* Database knowledge using **SQL, PL/SQL, Oracle** and **MS SQL Server.**
* Ability to implement new concepts and applications.
* Experience in developing **web-based** applications using **HTML, Java, JavaScript**.

**Technical Skills:**

**Operating Systems** : Solaris 10/11, Linux 7/9, Win/2010/2016

**Cloud :** AWS (EC2, EMR, Lambda, S3, ELB, Elastic Beanstalk,

Elastic Filesystem, RDS, DMS, VPC, Route53, Security Groups, CloudWatch, CloudTrail, IAM Rules, SNS, Redshift)

**WEB Technologies** : Jenkins, Bamboo, Puppet, Chef, Ansible,

Java (JDK), J2EE - Java Beans, Servlets, EJB JSP,

ASP, JNDI, Java Mail API, SQL, PL/SQL, JDB, SOAP, Struts, Spring, Hibernate.

**Application/Web Servers**  : WebLogic 12c, 10.x,9.x,8.1/7.0/6.0, IBM’s WebSphere

5.x, Apache Tomcat, Maven, IBM HTTP Server, share point, Microsoft IIS, Windows 3.0, and XML.

**Scripting :** XML 1.0, HTML 4.0, DHTML, Java Script, CSS, UNIX Shell Scripting

**Packages Utilities** : MS Office, Adobe Photoshop, Adobe Acrobat

**RDBMS** : ORACLE 10g, Sybase, SQL-Server

**Protocols** : TCP/IP, Telnet, DNS, NFS, FTP, SMTP, and SOAP

**EDUCATION:**

**Master’s in information technology Jan 2022 – May 2023**

**Arizona State University**

**PROFESSIONAL EXPERIENCE:**

**Trimble, Westminster, CO. June 2023 – Present**

**AWS DevOps Cloud Engineer**

**Roles & Responsibilities:**

* Responsible for designing, building and deploying cloud-based solutions, focusing on clients looking to move their legacy infrastructure to a more cost-effective environment.
* Extensively worked on **AWS Cloud platform** and its services **EC2, VPC, EBS, Autoscaling, Elastic Beanstalk,** S3, **ECS, Lambda**, **IAM, RDS, CloudWatch, SNS**, and **CloudFront.**
* Experienced migrating various **Linux** and **Windo**ws based applications from on-premises to AWS Cloud and moving the applications within **AW**S **clou**d between different accounts.
* Experienced in creating infrastructure with T**erraform** and **CloudFormation.**
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform, managed Infrastructure as code using Terraform.
* Extensively worked on Jenkins **CI/CD p**ipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the Jenkins build process.
* Built Scripts using **ANT** and **MAVEN** build tools in Jenkins to move from one environment to another environment.
* Did automation with Ansible by writing the playbooks and deploying them onto the node machines. Also managed the state of all the node machines in a healthy way.
* Provided C**loud** cost optimization solution to reduce overall cloud spend by identifying mismanaged resources, eliminating waste, reserving capacity for higher discounts, and Right Sizing computing services to scale.
* Experienced using service catalog kits to build the infrastructure in **AWS Cloud.**
* Created Custom Instance scheduler to start and **stop EC2** **and RDS** instances as per the developer team requirements which helps to control **AWS** resource cost by configuring start and stop schedules.
* Performed **Branching, Tagging**, Release Activities on **Version Control Tools like GIT, GitLab and GitHub**.
* Build servers using **AWS** including importing **volumes, launching EC2**, **creating security groups, auto-scaling**, load balancers in the defined virtual private connection.
* Experience with container-based deployments using **Docker, working** with **Docker images, Docker hub** and **Docker registries, installation** and **configuring Kubernetes** and **clustering them**.
* Setting up **Kubernetes (k8s)** Clusters for running microservices and pushed microservices into production with Kubernetes backed infrastructure. Development of automation of Kubernetes Clusters via Playbooks in Ansible.
* Experience in setting up MongoDB, MYSQL, **SQL** on **AW**S and worked with various scripting languages like Bash, Shell P**owerShell** and **Python.**
* User, Group creation, monitoring, and maintaining logs for system status/health using Linux commands and Splunk system monitor. Writing new plugins in Splunk to monitor.

**Environment:** AWS, CloudFormation, Terraform, Jenkins, Azure, Ant, Maven, Nexus, Docker, Kubernetes, GIT, GitLab, SonarQube, Shell, PowerShell, Python, Splunk, RDS, PostgreSQL, MongoDB, MYSQL.

**Bapendram Systems, India Aug 2019 – Nov 2021**

**AWS/Cloud Engineer**

**Roles & Responsibilities:**

* Extensively worked on **AWS Cloud platform** and its services **EC2, VPC, EBS, Autoscaling, Elastic Beanstalk, S3,** **ECS, Lambda, IAM, RDS, CloudWatch, SNS**, and CloudFront.
* Continuously build and integrate i**nfrastructu**res using **Terrafor**m.
* Designing, developing, test and debug new and existing configuration management (Terraform)
* Experienced with **Jenkins, AWS, Terraform** and **GI**T as source control.
* Worked in all areas of Jenkins setting up CI for new branches, build automation, plugin management and securing Jenkins and setting up master/slave configurations.
* Build scripts on **AWS Clou**d for scheduling **EC2** auto scaling load balancer with python sdk.
* Cloud development and automation using python, AWS **CDK** and **AWS Ser**verless application model.
* Working experience in serverless deployments through **AWS CLI.**
* Proficient in several Terraform modules for infrastructure management, **terraform scripts** to set up AWS resources **EKS, VPC, EC2, AMI, Images,** ELB, and automate the deployment & infrastructure.
* Create infrastructure using **AWS CloudFormation** however deferred mostly to Terraform for provisioning. Importing and exporting using CloudFormation.
* Incorporated AWS native **Devop**s services to support Code build, code deploy and CDK.
* Worked on Serverless microservices by integrating **AWS Lambda/S3** and **CloudWatch/API gateway**.
* Creating S3 buckets and maintained bucket policies utilizing the policy management of S3 buckets and Glacier for storage and backups on AWS. Virtualize the servers on AWS using Docker, create Docker files and version control.
* Involved in writing various custom Ansible playbooks for deployment, orchestration and developed Ansible Playbooks to simplify and automate day-to-day server administration tasks.
* Responsible for **installation & configuration** of Jenkins to support various Java builds and Jenkins plugins to automate continuous builds and publishing **Docker images** to the Nexus repository.
* Created Containers in **Docker**, virtualized the servers using Docker for the test environments and dev-environments needs, also configuration automation using Docker containers.
* Experience in creating Docker Containers leveraging existing Linux Containers and AMI's in addition to creating Docker Containers from scratch.
* Implemented ISTIO as a service mesh component to observe and control network flow across services running in multiple **Kubernetes clusters.**
* Worked with Kubernetes to provide a platform for automating deployment, scaling, and operations of application containers across clusters of hosts and managed containerized applications using its **nodes, Config maps, selectors, and services.**
* Experience with test driven development, pipelines or implementation of an infrastructure test harness.
* Experience in setting up the dev and test env automation for **Terraform scripts** using Jenkins.
* Used Jenkins pipelines to drive all microservices builds out to the **Docker registry** and then deployed to **Kubernetes, Created Pods** and managed using Kubernetes.
* Managed all the Docker containers and worked with the team in setting up **ELK** with **Docker a**nd **Docker-**Compose. Actively involved in deployments on Docker using Kubernetes, installed and configured Kubernetes UI for better visualization of the Cluster Managements, Nodes and Pods in the environments.
* Involved in Harness tool migration which was alternate for Jenkins in production and leveraged Helm chart / **antifactory** image push for **Kubernetes** deployment.
* Deployed Java/J2EE applications on to the Apache Tomcat server and configured it to host the websites.
* Responsible for creating and maintaining architecture for Restful API using spring boot.
* Extensively worked with Scheduling, deploying, managing container replicas onto a node using Kubernetes and experienced in creating Kubernetes clusters work with Helm charts running on the same cluster resources.
* Proficient knowledge with Helm charts to manage and release of helm packages.

**Environment:** AWS, Azure, GIT, Jenkins, Tomcat, Java/J2EE, Ansible, EC2, IAM, Kubernetes, Terraform, Docker, GitHub, Python.

**Wipro, India April 2017 – July 2019**

**DevOps Engineer**

**Roles & Responsibilities:**

* Performed S3 buckets creation, and policies on the IAM role based polices and customizing the JSON template.
* Automation scripting ability (Bash/Shell, Python)
* Work with our current application teams to understand our current applications and make migration recommendations and to-be architectures in AWS
* Launching Confidential EC2 Cloud Instances using Confidential Web Services (Linux/Ubuntu) and configuring launched instances with respect to specific applications.
* Hands on with Git / GitHub for code check-ins/checkouts and branching etc.
* Experience AWS services (VPC, EC2, S3, RDS, Redshift, Data Pipeline, EMR, Dynamo DB, Redshift, Lambda, SNS, SQS).
* Involved in designing and deploying multiple 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.
* Migrated on Premise MySQL database to Multi Availability Zone RDS instances.
* Worked closely with the development and operations organizations to implement the necessary tools and process to support the automation of builds, deployments, testing and infrastructure (infrastructure as code) using Chef.
* Extensive experience in deploying and debugging of deployments to Web sphere, Tomcat.
* Set up Jenkins master/slave to distribute builds on salve nodes.

**Environment**: Puppet, Apache, VPC, NAT, LAMP, AWS - EC2, S3, Route 53, CLOUDWATCH, REDSHIFT, ELB, EBS, DYNAMODB, AMI, Go Lang, Load balancer, Auto Scaling, SVN, GITHUB, Docker, JIRA, MAVEN, Jenkins, Bugzilla.