ABY VARGHESE
Cloud/Devops Engineer
abyvarghese2007@gmail.com
(346) -310-2986

Professional Summary:

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- Over 5+ years of experience in IT including Development, Integration of DevOps tools, Development, Configuration Management

- Hands-on involvement in deployment with Terraform and used Ansible for updating, building, deployment, and versioning infrastructure, and creating custom in-house solutions with Ansible.

- Worked on Automating the provisioning of AWS cloud utilizing Terraform and CloudFormation. Hands-on experience with Docker to bundle an application with all its dependencies into a standardized unit for Program Deployment.

- Experience in creating Docker Containers, configured the automatic build and pushed to Docker HUB repositories then installed and configured Kubernetes.

- System Administration with Linux (RHEL 5x/6x/7x, CentOS 6/7 and Ubuntu) Infrastructure Support, environment responsible for Operations, and security monitoring, maintenance through provisioning backups, integrity and availability of hardware and server resources, archives.

- Primary duties include automating processes to achieve CI/CD for deploying various applications by integrating tools like GIT, Jenkins, Maven, Apache, Docker, Chef/Ansible, Jira, Nexus various testing frameworks like Junit, various app servers like WebLogic/WebSphere/JBoss along with establishing within the Enterprise to move code across Dev, QA, SIT, Stage and Prod Environments.

Skills:

Cloud Technologies	Aws, Azure.
Build and Release Automation	Jenkins, concourse
Build Tools	Maven, Aws Codebuild
Configuration Management	Ansible, Chef
Cloud Automation	Terraform, Cloud Formation

Streaming and Messaging	Kafka, Zookeeper
Logging and Data Analysis	Elastic search, Logstash, kibana
Monitoring	CloudWatch,Grafana,Prometheus
Scripting	Bash, Python,
Databases	Amazon RDS, MySQL,
Development	Java, React
Operating Systems	CentOS, Ubuntu
Artifactory	Jfrog, Nexus
Code Scanning	Contrast, SonarQube, Jfrog X ray, ECR Inspector
Container Management	Docker, Kubernetes
Middleware	WebLogic, Tomcat
Web/Proxy Servers	Apache HTTPD, Nginx
Version Control Systems	Git, Github, Bitbucket

Education:

2016 – 2017: Data science And Predictive Modeling from University of California ,Irvine.
2016 – 2016: Business Management and Project Management from University of California ,Irvine.
2009 – 2013: Bachelor's in Engineering from Maharaja Engineering College

Certifications

Certified Project Management Professional (PMP)
Link: https://www.credly.com/badges/87b293f0-65c5-4bed-8609-abaec59cafb0/public_url
Certified AWS Solution Architect
Link: https://www.credly.com/badges/b5d41cab-22a6-4fa2-aa7d-8f932765af39/public_url
Certified AWS Cloud Practitioner

Work Experience:

Client: Corebridge Financial   **Aug 2023 - Dec 2023**
Houston, Texas
DevOps Engineer

<u>Roles and Responsibilities:</u>

- Dockerized Java applications and deployed to Amazon Elastic Container Service (ECS), enhancing application scalability and portability.
- Designed and implemented Jenkins pipelines for automated deployment of applications from Pivotal Cloud Foundry (PCF) to ECS, streamlining the release process and reducing manual intervention.
- Provided robust application support for both .NET and Java applications, ensuring their uninterrupted functionality and availability.
- Implemented scheduler jobs using Amazon EventBridge through Jenkins pipelines, enabling automated, event-driven workflows for enhanced efficiency and reliability.
- Supported Blue/Green deployment strategies within deployment pipelines, facilitating risk-free rollbacks and ensuring smooth release transitions.
- Collaborated closely with the operations team to architect and implement infrastructure as code (IaC) solutions using Terraform and Ansible, optimizing resource provisioning and management while maintaining consistency and reproducibility.
- Successfully containerized and deployed critical Java applications, resulting in improved deployment flexibility and resource utilization.
- Enhanced deployment workflows by creating Jenkins pipelines for PCF-to-ECS deployments, reducing manual errors and ensuring quicker time to market.

Client: Comcast   **Nov 2022 – June 23**
Houston, Texas
 DevOps Engineer

<u>Roles and Responsibilities</u>:

- Expertise in utilizing Concourse to deploy applications and services across diverse environments, consistently maintaining and enhancing deployment processes.
- Created jenkins pipelines to create hotfixPR creation and inturn which will initiates another pipeline for created of hotfix Pipelines
- Implemented Istio alongside an API Gateway for a microservices project, enhancing reliability and control over service communication.
- Leveraged Istio's traffic management to achieve blue-green deployment and integrated the API Gateway to manage external API access and enforce authentication and authorization for smooth and secure communication
- Worked in troubleshooting cloudfoundry issues and deployed application to cloud foundry and made sure to scale up instances based on the usage
- Patched nodes in steelcloud and CCP and implemented monitoring to application in each cloud environment.
- Collaborated with the operations team to design and implement infrastructure as code using Terraform and Ansible, ensuring efficient provisioning and management of resources.
- Configured and maintained OpenGrok, automating the process of pulling code from a GitHub organization, facilitating easy code searching and navigation.
- Implemented ELK (Elasticsearch, Logstash, Kibana) configuration and maintenance using Ansible, enhancing log management and monitoring capabilities.
- Utilized Jenkins for continuous integration and end-to-end automation, establishing a robust build and deployment pipeline.
- Created ansible plays/roles to interact with a kafka cluster by sending api calls to a composite config server and post api calls based on region, environment and requests to be implemented

Environment: Aws, Cloudfoundry, Concourse, Jenkins, kafka, Grok, Service Mesh (Istio), Terraform, Elasticsearch, Logstash, Kibana, Ansible, SQL, Kubernetes

TPHRC PVT LTD   **Jan 2020 – Mar 2022**
India
DevOps Engineer

Roles and Responsibilities:

- Building and deploying a Java web application, using Git, Jenkins, Maven, Ansible, Docker container and Kubernetes.
- Created Continuous Delivery frameworks by utilizing Jenkins, Maven, Ansible and Nexus in the Linux environment
- Created pipelines in AWS CodePipeline to automate the deployment of docker containers in ECS using many other services such as CloudFormation and S3.
- Used AWS for cloud management and application management, used to deploy the applications in the private and public cloud, scale up and scale down clouds.
- Implemented CI/CD processes using jenkins and terraform templates and containerized the entire infrastructure using Docker setup in AWS Cloud based environment.
- EC2 Patching using Aws system Manager using Patch Manager.
- Worked with Terraform for automating VPCs, ELBs, security groups, SQS queues, S3 buckets, and continuing to replace the rest of our infrastructure.
- Created Ansible roles in YAML and defined tasks, variables, files, handlers and templates. configured the Ansible files for parallel deployment in Ansible for automating the Continuous delivery process and used Ansible for configuring and managing multi-node configuration management over SSH and PowerShell.

Environment: Aws, GIT, Docker, Jenkins, Ansible, Bash, Maven and SQL, Kubernetes

TPHRC PVT LTD   **2018 Jan – Dec 2019**
India
Linux Admin

Roles and Responsibilities:

- Bash scripting experience and database query running RDS for Dot core related back up works
- Linux user management, creation, Access control list and Managing aws ec2 instance, on demand instance etc.
- Installed the latest patches for, Oracle on Red hat Linux servers, Configured and administered Send mail, Samba, Squid servers in Linux environment
- Set up the Linux Cron jobs for automating various build related jobs and application data synchronization jobs.
- Responsible for building of Linux OS servers using kick start automation application
- Configured Kick start and Jumpstart servers to initiate installation of Red Hat Linux and Solaris on several machines at once.
- Updated previous LDAP tools to work with version of Ruby Rails.
- Involved in Installing, Configuring and Upgrading of Red Hat Linux AS 4/5, Solaris 9/10 operating systems.
- Worked on Linux Package installation using RPM and YUM, provisioned system with LVM.
- Developed, customized and build packages on Solaris and rpms on Linux for deployment on various servers through Software Development Life Cycle.

Environments: Oracle on Red hat Linux, Samba, Squid, Red Hat Linux AS 4/5, Solaris 9/10, Linux Enterprise Desktop, SUSE Linux Enterprise Server, Red Hat and Solaris, LDAP.

MSC Software   **July 2016 – Sept 2016**
Irvine,CA.
Product Development Associate

<u>Roles and Responsibilities:</u>

- Managed the conversion of commercial material databases from MSC's proprietary PLM system, MVision, to MaterialCenter such as ASM, MMPDS, Mil-Handbook-5, and CMH 17.
- Hands-on experience with Nastran and Patran FEA designing software.
- Internal inspection of MSC's Material Lifecycle Management software, MaterialCenter, to ensure
- continuous improvement of the product and its quality systems.
- Contributed to developing of Metallic materials properties development and standardization handbook .