

## KRISHNA MV

Role: DevOps Engineer

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### OBJECTIVE

Around 5 years of professional experience in Containerization, Container orchestration, AWS Cloud and DevOps configuration management tools which includes Project Setup, Build Automation, Continuous Integration, Container, Container Orchestration and SCM process improvements.

### SKILLS & EXPERIENCE

- Hands on experience in creation of images and Containerization of the same using **DOCKER**.
- Created **Docker images** by writing docker files with its dependencies.
- Experience in **multi-stage build** for **Docker**.
- Experience in writing **ANT targets** to automate those docker builds.
- Experience in **Container Orchestration** tools like **Kubernetes Cluster Services** and **Docker Swarm**.
- Experience in Version control systems like **GIT**.
- Setting up native Kubernetes management & worker platform
- Worked on **Kubernetes (Management: ETCD, Controller, Scheduler, CRDs, Operators, Workers: Kubelet, Proxy, CNI, SDN Flannel, Network ACL)**
- Developed automation scripts to automated build process using Python Scripts.
- Strong knowledge on source code management concepts like **Branching, Merges, Rebase and Tags**.
- Experience in Build tools like **ANT** and **MAVEN** under **CICD JENKINS**.
- Hands on Experience in the Configuration management tools like **ANSIBLE**.
- Hands knowledge on Kubernetes **AKS/EKS**.
- Managed cloud instances via monitoring tool and action the alerts accordingly.
- Configured and managing security groups and VPC.
- Configured and managing **ELBs**.
- Created AMI images of the critical ec2 instance as backup using **CLI** and **GUI**.
- Experience in Configuration management tool like **ANSIBLE**.
- Experience in Amazon Web Service resources like **EC2, VPC, S3, IAM, ELB, RDS, Route 53, Auto Scaling and Cloud Watch**.

- Experience in CICD Tools like **JENKINS**.
- Extensively worked on **Jenkins by installing, configuring and maintaining for the purpose of continuous integration (CI)** and for **End to End automation** for all build and deployments.
- Understanding in **Bash shell programming** for deployment of Java applications on bare servers or Middleware tools.
- Provided framework for automated deployment in **Tomcat** environment.
- Experience in Databases like **ORACLE DB, MS SQL and MYSQL, AWS AURORA**.
- Excellent communicative, interpersonal, intuitive, analysis and leadership skills with ability to work efficiently in both independent and team work environments.

## PROFESSIONAL EXPERIENCE

- Worked as **Sr. Software Engineer** at **Tech Mahindra, Bangalore** from **2016** to **tilldate**

## TECHNICAL SKILLS

Cloud Based Environment	<b>Amazon Web Services (AWS)</b>
Configuration management	<b>Ansible</b>
Containerization tool	<b>Docker</b>
Container Orchestration	<b>Kubernetes (ETCD, Controller, Scheduler, CRDs, Operators, Workers: Kubelet, Proxy, AKS/EKS), Docker Swarm</b>
Monitoring tool	<b>Cloudwatch</b>
SCM Tools	<b>GIT, Github, Bitbucket, Gitlab, Githawk</b>
Scripting Languages	<b>Understanding in Python, Expertise in Bash Shell Programming</b>
Build Tools & CICD	<b>Build(Ant, Maven) and CICD(Jenkins)</b>
Ticketing Tool	<b>Issue tracking - Service Now, Project management – JIRA ( Agile and Kanban) Project management tool (Agile), PagerDuty</b>
Operating Systems	<b>LINUX(RHEL, CentOS, Ubuntu, SUSE), Windows</b>
Databases	<b>MySQL, Microsoft SQL Server, Oracle</b>
Web/Application Servers	<b>Apache Tomcat, Nginx HTTP reverse proxy server, Apache Webserver. MQ- ActiveMQ Memory server- SEMS (segmented memory server)</b>

## PROJECTS DETAILS

### Project # 1:

Company : Tech Mahindra  
Client : CALPERS, USA  
Environment : (Java, Linux, GIT, Maven, Tomcat, Jenkins, AWS, Ansible, Docker, Kubernetes, Python scripting, MySql )  
Role : Linux Admin / AWS Cloud Engineer/ Sr. Devops Engineer

### Responsibilities

- Exclusively worked on windows & Linux AMI for hardening.
- Enterprise and Premium support for **EC2** infrastructure.
- Developed container and deployed using **Docker** and orchestrated using **Kubernetes**
- Build, manage, and continuously improve the build infrastructure for software development engineering teams including implementation of build scripts, continuous integration infrastructure and deployment.
- Manage the Source code to have Latest version of code available from production releases.
- Experience in Setting up **GIT repository** setup in **GITHUB** and **Bare Repo on Dedicated server** and **Branching** and **Merging**.
- Supporting engineering plans and schedules by providing **CM/Release Engineering services to build**, deploy, develop scripts, oversee branch and merge strategies, and build automated tools as necessary to offer services to the engineering team.
- Migrated builds from **Ant to Maven** and configured the artifact repository nexus.
- Performed **DevOps** for **Linux and Windows** platforms.
- Focused on automation and integration.
- Monitored developed applications and fixed bugs.
- Created a continuous delivery pipeline from the ground up built with **GIT, chef and Jenkins** for Target's Finance Integration Team.
- Deployed and configured **Tomcat** applications.
- Each Java application is automatically built, packaged and tested with **GIT** web hooks and then deployed to the various environments.
- Maintained **subversion repositories** for **DevOps environment automation code** and **configuration**.
- Developed bash scripts to redact sensitive data from apache access and error logs using a sed expression, deploy war files to environments in parallel.
- Developed automation and deployment utilities using **shell**.
- Wrote custom monitoring and integrated monitoring methods into deployment processes to develop self-healing solutions.
- Created automation and deployment templates for relational including **MySQL**.
- Scheduling snapshots of volumes for backup and find root cause analysis of failures and documenting **bugs and fixes**; scheduled downtimes and maintenance of cluster.
- Provide direct server support during deployment and general production operations.

- Worked with developers to ensure new environments both met their requirements and conformed to industry-standard best practices.

### **Project # 2:**

Company : Tech Mahindra

Environment : Java, Linux, GIT, Maven, Tomcat and Jenkins, Docker container, Orchestration, Node.js, Ansible, AWS.

Role : AWS DevOps Engineer

### **Responsibilities**

- Exclusively worked on windows & Linux AMI for hardening.
- Handled cloud administration tools and management frameworks.
- Configured Cloud watch alerts.
- Managed multiple AWS accounts with multiple VPC's for both production and non-prod where primary objectives included automation, build out, integration and cost control.
- Assisted customers with common connectivity issues by reviewing subnet, security group, ACL, routing, VPN, ELB, Auto scaling, RDS and Deployment configurations.
- Linux System Administration supporting RHEL and Oracle Linux. AMI builds, troubleshooting, shell scripting, backups and log file management.
- Enterprise and Premium support for **EC2** Infrastructure.
- Leading EC2 Windows Support team in N. Virginia location.
- Worked on AWS **Cloud Watch** and **Cloud Trail Services**.
- Worked closely with EC2 infrastructure teams to troubleshoot complex issues
- Managed and supported AWS Security related issues, such IAM and S3 policies for user access
- Support for all other AWS products such as S3, RDS, Elastic Load Balancing, Route53 (DNS)
- Installation and configuration of Git, merging code from develop branch to master branch and make it ready for deployment.
- Pushing Code from GIT to nexus make available for release through automation script using Jenkins.
- Knowledge on GIT and Jenkins Continuous Integration of Server–Installation, Configuration, Design and Administration, and integrating these tools with other systems.
- Handled cloud administration tools and management frameworks.
- Configured Cloud watch alerts.
- Created support case with AWS for any critical issues and follow-up.
- Configured Yum at Server / Client side for Software Package management.
- Deployed and monitor scalable infrastructure on Amazon web services (AWS) & configuration management.
- Launching and configuring of Amazon EC2(AWS) Cloud Servers using AMI's (Linux/Ubuntu) and configuring the servers for specified applications using Jenkins
- Make sure that the Score points for our EC2 instances is more than 90%.
- Setup and launch Amazon Linux and RHEL and Windows ec2 instances, network interface with Elastic IP's.
- Configured and managing security groups and VPC.
- Configured and managing ELBs.

- Configured and managing S3 storage.
- Created AMI images of the critical ec2 instance as backup using AWS CLI and GUI.
- Created RDS databases and populated data.
- Monitored and worked on alerts for Web server Application pool.
- Backup & Restoration.

Place: **Bangalore**

Date: **06-05-2021**

( krishna mv)