Milind Dhoke

Platform DevOps Engineer

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Summary

DevOps Engineer with traits of software engineering with proven experience in implementing best fit Devops approach, using CICD methodology, provisioning servers using IaaS concept for SaaS applications,containerisation and orchestration, configuring servers and services with configuration management tools, designing and architecting system, monitoring performance metrics and developing catalyst program for gaining efficiency in proposed ecosystem.

Experience

Qualys Inc, Foster City, CA   Dec 2016 - Present
Platform DevOps Engineer

- Analyzed existing config flow issue, conceptualized and designed new **Aqui** project where **service's config Injections** directed from **BitBucket** to Eng, QA, Staging and Prod environments with Gatekeepers.
- Observed **puppet** manifests drawbacks, broadened **ansible** use and architected **bootstrap** project (**v1.0**) for deploying base packages. **Leading** bootstrap project to **v2.0** with automation pipeline. Wrote required custom ansible modules.
- Written a wrapper in a **golang** which got integrated with existing **bootstrap (v2.0)** project in order to make it more efficient, error-free and in an automated fashion. Code is written in such a way that end customer can also use it.
- Accomplished **PODA** project which bundles up **Terraform**, **Ansible**, **Jenkinsfile** and **Docker** in a single module. Wrote module for log,dst,storage,svc hosts.
- Heavily used **terraform** as **IaaS** to spin up testing nodes on **VMware's Vsphere**.
- Leveraging **Docker** to get DevOps products into production. Docker has been implemented as a medium for deployment.
- Resolving **IM's** created for **Docker Swarm** issues in production with maintaining each IM's **confluence** as a reference doc for other team members.
- Helped team to understand the underlying architecture of **Docker**, and **Docker Swarm** to find and fix production issues on docker components with wide visibility.

- Researched on **Kubernetes 1.7**, its architecture, core components, networking etc. On successful **POC**, drove the project to deploy kubernetes in production. Wrote required **Puppet** modules to make efficient and seamless automation for deployment.
- Designed custom secured **Jenkins** for internal **CICD** process. Wrote **Ansible** module for deployment and embedded in docker image for no-touch transitioning from Eng to QA, Staging and Prod environments. For backup **Puppet module** also made available where puppet is used.
- Worked with **FIM, IOC, ITAM** engineering team to get the application out in the production by leveraging Devops strategies and implementing required toolsets.
- Wrote **GOGS (go git server)** puppet module as a part of **Config Sync** project, which collaborates with site-level **VCS**. Developed **Bash scripts** which perform an internal sync process.
- Introduced **ElastAlert** to monitor running Docker container. Wrote puppet module as well as generated ElastAlert RPM.

Skills: Linux, Golang, Bash, Jira, BitBucket, Git, Bamboo, Jenkins, Artifactory, Gradle, Docker, Kubernetes, Ansible, Puppet, Groovy DSL, VMWare

RMS, Newark, CA   July 2016 - Dec 2016
DevOps Engineer

- Led one the release of RMSOne product in production in collaboration with other platform team members.
- Revised Jenkins jobs to minimize the manual work and automate the patching process.
- Initiated the use of AQL for Jfrog Artifactory to monitor the storage space and provided a report of artifacts for further actions.
- Performed prep work prior to scheduled release in all environments.
- Facilitated release branches in GitHub repositories in sync with other referenced developer's branch for sandbox, STx, demo, Pre Prod and Prod environments.
- Pipelined the Jenkins jobs using consolidated bash scripts to automate the onboarding new tenants for a new client.
- Extensively used AWS services ECS, RDS, EC2, S3, IAM.
- Executed troubleshooting steps on RMSOne's mapserver Postgres RDS for map rendering.
- Executed PSQL queries using CLI and PGadmin both for CRUD operations on postgres database.
- Demonstrated and developed Terraform script to build infrastructure on Azure.
- Collaborated with Microsoft team during infrastructure migration to Azure from AWS.
- Accelerated use of terraform against AWS to update infrastructure during patching and deploying the regular release.
- Analyzed and monitored issues on live RMSOne application on graylog and rectified them.
- Adapted workflow in change management with the help of SLM
- Initiated a change request in ServiceNow portal to lead the major release in production.
- Integrated slack and Jenkins to make efficient monitoring of the status of build on Jenkins.

Teradata, San Carlos, CA   Feb 2016 - July 2016
DevOps Engineer

- Collaborated with UDA team to deploy scalable mesos marathon microservice in AWS using Ansible
- Managed Jenkins Tasks, systematizes a Jenkins job for QA team to automate the build.
- Setup GitHub Pull Request builder plugin in Jenkins to run jobs automatically when pull request created on GitHub.
- Worked on AWS Services (EC2, RDS, ELB, Route53, IAM, S3).
- Developed Ansible Playbook to install dependencies for application on instances.
- Containerized the marathon micro service from apache mesos using Docker.
- Wrote Prometheus exported for sending alerts (High CPU, Low Disk, Mesos Down, HAProxy Down) to slack.
- Installed exporters for Prometheus in order to integrate properly with slack.
- Having troubleshooting experience on Docker container.
- Worked on research story from Jira to analyze and report the deployment of application on On-Prem data-center in collaboration with senior DevOps engineer.
- Experienced working in an Agile culture.

Education

MS(CIS) GPA: 4.0	Dec 2015
Southern Arkansas University, Magnolia AR	

BE(CS) Grade: A	June 2011
Amravati University	

Achievement

- Delivered Seminar on DevOps Culture at Southern Arkansas University.
- Tutored a batch of students in DevOps toolchain with use cases.

Interest

- Reading, Blogging on self-taught technology
- Maintaining own work on GitHub at **https://github/dmilind**
- Learning new technologies by implementing.
- Trekking, Hiking, Music, Cooking, MeetUps.

Publications

- https://milinddhokeblog.wordpress.com/
- https://milinddhokeblog.blogspot.com/

Conference

- **Ansible Fest 2018**, Role: Attendee
  Take-Away:
  - Implement ansible and terraform integration(Infra Config Management).
  - Leverage ansible container for container automation.
- **HashiConf 2018**, Role: Attendee
  Take-Away:
  - A Secure vault in production for secret management
  - Using console for providing configs to live application in production.
- **Docker Con 2019**, Role: Attendee
  Take-Away:
  - End to end container lifecycle and container-based deployment model.
  - Software Supply Chain using Docker
- **RSA 2017,2018,2019**, Role: Attendee
  Objective:
  - To get an insight into the latest technology in IT world.