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| Mukta Aphale  DevOps Architect & Coach |  |

*I have served the software industry as a technology geek, developer and DevOps enthusiast. I have contributed to open source tools like Chef and Docker.  Innovation and the thirst to keep learning define me!*

*I live my passion for DevOps by working as a DevOps Architect and Coach.*

**Overview**

* 14+ years of IT experience in **Development and DevOps**
* Ability to envision and strategize to ensure organization meets its goals
* Experience in driving profitability through strategic growth, leading teams and quality control
* Proficient in Consulting for DevOps, Cloud, Containers
* Extensive experience of working on research oriented projects, POCs and development of new projects from scratch
* Outstanding analytical, decision making, problem solving and management skills with ability to organize activities in fast changing team environment
* Presented at the ChefConf 2015 on using Docker with Chef: “[Baking Docker using Chef](https://www.youtube.com/watch?v=5NiJ03r8h9E)”
* Presented at the DockerCon 2015 on the topic of bridging motherhood with technology: “[MomOps in DevOps](http://www.slideshare.net/MuktaArankalleAphale/momops-in-devops)”
* Experience speaking at many local conferences/meetups
* Technical Blog: <https://muktaaa.wordpress.com>

**Technical Expertise**

* **Ruby, C and Java developer**
* Worked as a technologist in **all phases of DevOps**
* **Good orator and technical blogger**
* Presented at various international and national conferences and meetups
* Excellent at Sales and Marketing
* Has a huge and valuable network
* Organized, Disciplined and Strategic

**Educational Qualifications**

* **Masters in Business Administration (General Management)** in 2014 from ICFAI University
* **Bachelor of Engineering (Computers)** from PICT (Pune Institute of Computer Technology) in 2003 with Distinction (73%).

**Few Projects Worked On**

* **Schlumberger**

**Challenge**: First cloud project in the organisation, Multiple projects but only 1 DevOps engineer, Technical hand holding needed

**Solution**:

* + - * + Conducted DevOps Audit and provided DevOps Assessment report,
        + DevOps Coaching in the form of training and consultation,
        + Technical hands on to implement project on Google cloud,
        + Peer DevOps engineer to speed up implementation work across multiple projects,
        + Streamlined testing process to be more effective,
        + Added stubs for entire CI/CD pipeline to facilitate re use of technology and process

**Technology**: Google Cloud, Kubernetes, Docker, Google App Engine, Jenkins, Java, Google Cloud, Monitoring

* **Continuous Integration & Delivery for US Based Analytics Company**

Customer is the leader in providing solution in analytics in industrial automation. The objective of the project was to setup CI pipeline using Docker container and Ansible. When solution from the customer will get delivered, it will also have CI pipeline along with it. Continuous delivery was on Cloud Foundry using Jenkins workflow/pipeline build as for promotional workflow. I was also involved into development for writing supplementary services for Microservice architecture.

• Setup continuous integration for Docker.

• Configure Flawcheck for Docker registry.

• Write DockerFile to create Jenkins, SonarQube, GitLab and Artifactory pro with unit test cases in RSpec.

• Setup tag based promotion workflow using Jenkins pipeline build and Artifactory.

• Write Ansible playbooks to create CI containers and link them, add volume etc on AWS.

• Write Ansible playbook to take backup of the data on S3.

• Add deployment on Cloud Foundry using Stackato.

• Link promotion workflow with Cloud Foundry.

• Write webservice using Spring Cloud Hystrix for circuit breaker. This will fall back on mirror service hosted in same namespace.

• Write webservice for Config store using Spring Cloud Config service. This will store all configuration in Git repository.

• Implement service discover using Spring Cloud Consul.

**Technologies:** Git, Gerrit, Jenkins, Ansible, Artifactory, Docker, Bash, Python, Gradle, Maven, Spring Cloud framework - Hystrix, Config server and Consul, Amazon EC2, S3, EBS etc.

* **Midtrans (Company in Payment Gateway in Indonesia)**

**Challenge:** Hybrid environment of bare metal, VSphere, AWS and Local cloud provider Gio, Multiple types of testing done directly on Staging environment, Difficult to roll back polluted test env after tests were run, Complex architecture with multiple component dependencies, A mix of real time data, test data and simulators for testing

**Solution**:

Setup the entire test environment using Docker,

Dockerised applications and simulators,

Integrated the tests with the CI pipeline,

Test results displayed graphically,

Added log monitoring for debugging test results using UI,

Log monitoring which saved old test results and searching using build id

**Technology**: Docker, Drone-CI, Java, Ruby, Erlang

* **Bajaj Finserv**

**Challenge:** Enterprise organisation with low DevOps awareness, BFS working with multiple vendors for development, Cultural change

**Solution:**

Conducted DevOps Audit and provided DevOps Assessment report,

Introductory training,

Phased design of DevOps practice,

Implemented DevOps in an agile way,

Combination of small technology upgrade followed by formal and informal training,

Centralised dashboard to view entire system health on one screen,

Unified tooling across the organisation to minimise training time

**Technology:** Gitlab, Jenkins, Grafana, Salesforce, Java, DotNet

* **2020 Spaces, Migration to the Cloud - Canadian Company in Interior Software**

**Challenge**: Lack of cloud awareness, Desktop application, Legacy application

**Solution:**

* + - * + Created AWS environment from scratch
        + Setup pre prod as well as prod environments
        + Streamlined and automated the deployment to the cloud
        + Automation to bring up pre prod environment for testing before release and deleting the environment after testing
        + Saving of cloud costs due to use of pre prod environment only when needed

**Technology:** Windows, AWS, Dot Net, SQL Server

* **RedHat project for Cathay Pacific Asia**

Ansible Development as a part of setting up private cloud for Cathay Pacific Asia

**Challenge:**

Strict and close timelines, Windows automation, Security, Compliance and testing in a restricted environment

**Solution:**

* + - * + Developed Ansible playbooks for RHEL OS hardening
        + Developed Ansible playbook for IHS
        + Developed Ansible playbook for installing enterprise MySQL on RHEL
        + Developed Ansible playbook for HDS storage
        + Developed Ansible playbook for Windows core, with many supporting features
        + Developed Ansible playbook for SQL server and SQL server node cluster
        + Developed Ansible playbook for checkpoint firewall and anti virus
        + Developed Ansible playbook for F5 setup and configuration
        + Unit tests using test Kitchen
        + Performance benchmarking

**Technology:** Ansible, Ansible Tower, Windows, RHEL, Powershell, F5, Symantec

* **iHealth Technologies**

As a DevOps Architect for a client, iHealth Technologies, Mukta's job is to build an awesome DevOps strategy for their new product. The product is being developed in cutting edge technologies. The DevOps strategy needs to be designed and implemented taking into consideration various factors like the changing and unstable code base, proposing and setting up the required infrastructure, the code-commit to production-delivery pipeline, compliance, security, monitoring and also bringing about cultural change.

* **Chef Product Development**

Opscode Chef is an automation platform that transforms infrastructure into code. Chef operates in tandem with leading management and devops tools to allow customers to deliver software of high quality at high velocity.

My work involved writing the plugins for Chef, in Ruby language, for different cloud vendors like Microsoft Azure, Amazon EC2, Openstack. Work also involved applying the plugins to real life use cases, solve client issues with Chef setups, write Chef recipes for automation.

**DevOps Trainings Delivered For**

* + - EMC2
    - Intuit
    - Bajaj Finserv
    - Vodafone
    - Schlumberger
    - Mutual of Omaha
    - QA Agility