**SITAM SINGH**

(DevOps Engineer)

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Professional Summary

**Specialized in DevOps Environment, Amazon Web Services (AWS) and Linux.**

* Technical Skills on DevOps Tools :
* Hands-on experience in GIT (distributed version control tool), Chef & Ansible (Configuration Management Tools), Maven (Build tool), Docker (Container Based Tool), Kubernetes, Jenkins (Continuous Integration tool) and Nagios(Monitoring tool)
* Technical Skills on Amazon Web Services (AWS cloud) :
* Having knowledge in EC2, VPC, Route 53, S3, IAM, SNS, SQS, Cloud Watch, Cloud Front, EBS, EFS, Elastic Load Balancer, Auto Scaling, RDS, Redshift, DynamoDB.
* Technical Skills on Linux & Centos :
* Installation and configuration of Red Hat Enterprise Linux, Ubuntu and Centos.

Skills

* **Devops Tools-** Git, Chef, Ansible, Docker, Kubernetes, Maven, Nagios & Jenkins.
* **AWS (Cloud)-** EC2, S3, Route 53, VPC, SQS, SNS, Cloud watch, EBS, EFS, RDS, Dynamo DB, Redshift.
* **Operating Systems-** Linux, Centos, Ubuntu & Windows.
* **Languages-** YAML & Ruby.

Experience (June 2016 - Current)

PDM Software Pvt Ltd – Pune, MH

(DevOps Engineer)

**GIT:**

* Setup code repositories like GIT.
* Used Git extensively in each and every project to store all kinds of code.
* Well aware of git stages like work space, stage/index, local repository and central repository.
* Well aware of git concepts like ignoring git files, git stash.Attached tags to refer commits as it is very difficult to remember commits ID's.
* Regularly used git commands like git pull, git push, git fetch, git clone, git log and other git commands.
* Complete hands on experience on dealing with git branching, merging branches, switching branches and resolve merge conflicts.

**CHEF:**

* Setting up Chef Infra, Bootstrapping nodes, creating and uploading recipes.
* Setting up the Chef servers, Chef Workstation and Chef Nodes.
* Created configuration files by using Chef Attributes and deployed in chef nodes.
* Having good practical experience with ruby scripting. Used extensively in writing recipes to create chef resources.
* Having complete hands on experience in working with managed chef server.

**ANSIBLE:**

* Setting up and working with Ansible.
* Hands on experience in writing Playbooks.Having very good experience in YAML.
* Hands on experience in working with Roles in Ansible.Good knowledge in dealing with inventory file and host patterns in adding hosts to inventory file and calling hosts.
* Extensively used Ansible ad-hoc commands instead of using ansible playbooks for each and every small task in ansible.
* Used Ansible Vault in playbooks to protect sensitive data.

**DOCKER:**

* Having good practice experience in installation and configuring of docker.
* Created many docker containers form docker images.
* Created docker volumes to provide high availability to data even if any of the docker container goes down.
* Good hands on experience in sharing docker volumes among containers and between container and host.
* Used docker port mapping to expose port to outside of docker container to access website which is running inside docker container.
* Good knowledge in pulling and pushing docker images from and to docker hub.

**JENKINS (CI/CD):**

* Installed and configured Jenkins in both windows and Linux machines.
* Complete understanding of Jenkins complete work flow as well as its advantages over other CI-CD tools.
* Good hands on experience in integrating many tools with Jenkins like git, maven, selenium, junit, build pipeline, bulk email and tomcat web servers.
* Installed and configured Java as java is pre-requisite to install Jenkins.
* Installed and configured build tools like Maven and Ant and integrated with Jenkins.
* Good experience in creating free style projects and maven projects and dependency projects.
* Established complete Jenkins CI-CD pipeline and complete workflow of build and delivery pipelines.
* Configured many scheduled projects so that they can run frequently without manual trigger.
* Responsible to establish complete pipeline work flow starting from pulling source code from git repository till deploying end product into servers.
* Created many slaves to take the work load from Master Jenkins server.
* Good hands on experience in deploying end product in tomcat web server and other application servers.

**NAGIOS:**

* Installed and configured oldest and latest monitoring tool called Nagios.
* Good understanding of Nagios dashboard and monitoring things.
* Good understanding of Nagios directory structure and capable of managing that directory structure.

**CLOUD WATCH:**

* Extensively used cloud monitoring service called Cloud Watch.
* Monitored many things like CPU percentage, RAM space, disk space and many more.
* Created many cloud watch alarms so that will be alerted if any unusual thing happens and take necessary action to make sure in reducing downtime.
* Dealt with different kinds of metrics which are been provided by AWS.
* Worked with both default monitoring and detailed monitoring.
* Integrated cloud watch with so many other AWS services to make sure that there is high availability always.

**AWS- Services**

Having very good hands on experience on EC2 (Elastic compute cloud), ELB (Elastic Load Balancer), Auto Scaling, S3 (Simple storage service), Cloud Front, IAM (Identity and Access Management), VPC (Virtual Private cloud), Glacier, Route-53, SNS (Simple notification service), Cloud formation, Elastic beanstalk, EFS (Elastic File System), Cloud Watch and Trusted Advisor. Well aware of SQS (simple queue service), SES (simple email service), RDS, Dynamo DB, Red shift, Elasticache, Snow ball.

**EC2:**

* Having very good knowledge wrt EC2 like launching windows and Linux machines and all five types of Elastic Block Storage (EBS) volumes and their differences.
* Launched all three kinds of load balancers and attached to webservers to distribute traffic as well as to check the health of EC2 instances to make sure that they are always up and running.
* Hands on experience in creating Snapshots to take back up copy of our EBS volumes.
* Used Auto Scaling to provide high availability to EC2 machines.
* Created AMIs and Volumes and played with them like attaching, detaching, creating own AMIs for replication of same environment in same/different Availability Zones as well as same/different regions.
* Encrypted volumes to provide security from unauthorized access and misuse of data and provide protection from accidental deletion of machines.

**SNS:**

* Complete hands on experience wrt creating SNS topics, creating subscribers and adding subscription.
* Integrated SNS with almost each and every AWS service to get notifications over different protocols like email email json and SMS.

# Education

### Lokmanya Tilak College of Engineering

### Navi Mumbai, MH

(B.E) May 2016

# Declarations

I hereby declare that the information furnished by me in the above document is correct and accurate to the best of my knowledge.

Place: Mumbai

SITAM SINGH

Date: