

Yogesh Kumar Sharma

Staff DevOps Engineer/SRE/Open Source Enthusiastic
<https://yogeshsharma.me>

Contact

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Location : Bangalore

Objective

To provide your organization with the best possible computer and systems administration, maintenance and support services where all my Development, Testing and Admin Skills will contribute to organization efficiently.

Summary

- Professionally accomplished IT Professional with over 8 Years of diversified IT experience in e-Commerce, BFS, FMCG, Hi-Tech and Healthcare domain managing advanced multiplatform I.T. Infrastructure.
- Disciplined with proven abilities to manage multiple assignments efficiently, ascertaining needs and goals, streamlining existing operations, envisioning new concepts and future trends and following through with development, direction and accomplishment. Responsible for handling Internal and External Escalations with experience ITILv3 IT Operations.
- Managing Infrastructure as a Code using various skills such as Python, Troposphere, Packer, Terraform, Cloud Formation, Chef etc.
- Automating almost everything possible in various languages, Mainly in Python
- Developing tools and services for better developer productivity.
- Focused on engineering excellence.
- Experience in managing/operating large scale systems handling billions of transactions
- Experience in design and Architecture for Large Scale Application.
- Experience in migration of Services to AWS from Private Data Center and Vice Versa i.e. from AWS to Private Cloud.
- Exploring open source tools (POC) and their Implementation in Production Environment.
- Managing End to End Cycle of Application.
- Experience in IT Operation based on ITIL v3 Foundation.
- Strong administration skills in multiple Application Servers on Linux/Unix Platform which involves Installation, Configuration, Deployments, Clustering and performance tuning.

Key Skills

- **Language** Python, BASH and Go Lang (Beginner in Go)
- **Cloud & Virtualization** AWS, Cloud Stack (Apache/Citrix).
- **Containerization** Docker, K8S
- **Platform** RHEL (6/7), CentOS (6/7), Amazon Linux 2
- **CICD, Orchestration & Tools** Jenkins Blue Ocean, Rundeck, Argo CD, Chef, Code Deploy, Code Pipeline, Troposphere, packer, terraform etc.
- **Network & Security** DNS (Bind, FreeIPA), AWS NACL, WAF, IP-Tables, TCP/IP, IPv4, HTTP/HTTPS, etc.
- **Application Servers** Apache Karaf, Tomcat, Jboss
- **Web Servers/SSO** Nginx, Apache Web Server, IBM HTTP Server, Lighttpd
- **Monitoring** Nagios, Icinga, Check Point, New Relic, Chart Beat, AppDynamics, Splunk, Wily, SiteScope, Cloud Watch, Monit etc.
- **Database** MySQL, Influx-DB
- **No SQL** Aerospike, Mongo, Couchbase
- **Caching** Varnish, Aerospike, Akamai, MemCached
- **Log Mgmt & Visualization** Splunk, Wavefront, EL(Logstash)K, EF(FluentD)K, Grafana, StatsD, Graphite, TeleGraph

Experience

1. **Organization:** Intuit Inc. (25 Jan 2016 to Present)

Designation: Staff Site Reliability Engineer (Intuit Developer Platform)

Role and Responsibilities

Joined as Senior SRE and ***promoted to Staff SRE in Jan 2018***. In this role, I am mainly focusing on Automations, K8S, Tools and Application Development, writing patterns, streamlining operations and RTB work as a part of Intuit Platform Team. ***I have also worked on writing a Patent which is currently under review as of July 2019.***

Earlier, in Senior SRE role I was having responsibility of managing/automating complete infrastructure for Intuit Tier-1 Services using combination of both open source and Enterprise Technology.

Leading the migration of Intuit Tier-1 services to Public Cloud (AWS) from Local Data Center which handles billions of requests per day.

Managing, everything as Code i.e. Infrastructure as Code.

Automating AWS Infrastructure using Python.

Working on setting up CICD.

Some Key or Daily Activity Includes:

75% of work hours, I contribute to:

- Writing code for Infrastructure to manage it as IaaS for AWS or even for Legacy Data Center.
- Managing application CI/CD using Capistrano, Jenkins, Rundeck, Argo CD and Chef.
- Re-Architecting Application design with Intuit Architect Team to meet Intuit Security Standard in AWS.
- Monitoring development and configuration using various tools such as Splunk, NewRelic, AppDynamics, Grafana, InfluxDB, Wily, SiteScope, Wave front, etc.
- Building tools for better developer productivity.

In remaining 25% of Work hours, I mainly focus on:

- Level 3 On Call Support for all supported Services.
- Using Open source tools like Packer for automating the build Process of AMI's.
- Managing thousands of nodes.
- Managing ActiveMQ.
- Hardening Redhat Linux for AWS.
- Migrating scripts from RHEL 6 (init.d) to RHEL 7 (systemctl)
- Working on Various AWS Services, Majorly EC2, VPC, Network ACL, Security Grp, SNS, SQS, Route53, Cloud Formation, Lambda and Step Functions, Elaticache MemCached, S3, IAM, RDS, EFS, Config, Cloud Trail, Cloud Watch, SES, Code Deploy, Code Pipeline, Dx, TGW etc.

• **Organization:** SNAPDEAL.COM (19 Jan 2015 to 22 Jan 2016)

Designation: Senior DevOps Engineer

Role and Responsibilities

Primarily responsible in designing an Infrastructure for Payment Wallet (mainly known as FreeCharge Wallet), starting from choosing a Network CIDR to provisioning/Configuring Virtual Machines to Application Go Live and making it compliant for SISA audit.

It includes:

- Migration of AWS Infrastructure to Private Cloud Cirrus.
- OS Management and Hardening
- Log Management: EFK Stack (i.e. Elastic Search, FluentD and Kibana), Grafana, Telegraf, InfluxDB
- Deploying Host Based Intrusion Detection System (HIDS) OSSEC to monitor system and user Activity.
- Central Authentication (Dual Factor or MFA) using FreeIPA and extending its usage to DNS.
- Managing Certs (SSL) and making sure they achieve best Grade (As tested on Qualys SSL Lab Test). Some certs got A+ as well.
- Managing Internal PKI Infrastructure for Internal Certificate Authority.
- System Monitoring using Icinga2.
- Deployed MONIT (wherever needed).
- Designed Cloud Infrastructure for KlickPay (Snapdeal Subsidiary which owns Payment Gateway) from zero to Production ready which includes usage of multiple AWS Services like VPC, EC2, S3, IAM, SES, SNS, SQS, etc.

- CI/CD using Chef (i.e. writing cookbooks, managing DataBag), Jenkins so that minimum intervention of DevOps is needed. Experience in writing Ansible Playbook as well and using them wherever necessary.
- Designed an Internal WAF (Web Application Firewall) for Internal Application using Mod Security, Apache WebServer and HAProxy (with acl applied for DDOS prevention).
- NoSQL Databases: Aerospike.
- Making Infrastructure Highly Available and Scalable to make sure uptime is always 99% and above. Used HAProxy, DNS LB and ScaleArc (DB Load Balancer) for balancing multi-node environment.
- Planning DR (Disaster Recovery) failover and fallback policy with member of Dev, DevOps to have minimum RPO and RTO.
- Automating as much as possible.
- Working with Multiple team in creating a most Advance Payment System.
- Also managing Snapdeal Technical Infrastructure which include thousands of nodes with billion hits

Tech:

NOSQL: AeroSpike, Mongo
 RDBMS: MySQL
 Clustering: MYSQL Clustering Using Gallara.
 Cloud Tech: AWS, Microsoft Azure
 Hadoop: Apache Hadoop, Cloudera
 CMS: Chef (Beginner) and Ansible
 CI/CD: Jenkins
 System: DNS, DHCP, HTTP/HTTPS, IPTables, FreeIPA LDAP
 Platform: CentOS 6.5/6.6, RHEL 6.5/6.6
 AWS Tech: EC2, S3, VPC, SNS, IAM, SES, IAM, CloudWatch, EMR
 Programming: Shell, Python

- **Organization:** IPsoft Inc. *(12 March 2012 to 05 Jan 2015)*
Designation: Application Engineer (Infrastructure)

Client:

MasterCard International, Hindustan Unilever Limited, InterContinental Hotels Group, National Football League, BT (Cloud Compute), Viacom Inc, Genworth Financial, IPsoft (for Internal Infrastructure).

Role and Responsibilities:

- Technical Lead (Cloud Platform) for British Telecom, Managing Cloud Environment based on Apache Cloud Stack/VMware.
- Ensuring 99.8% uptime of MasterCard Internet Infrastructure hosting real time Tier 1 Applications and System used in Financial Transaction across the globe.
- L2 responsibilities for managing Web and Middleware Infrastructure of all IPsoft Clients (Fortune 500 Organizations), majorly in Financial Domain.
- Working with MasterCard TRT (Technical Recovery Team) teams on production issues for Mission Critical Applications.
- Managing MasterCard entire DNS Infrastructure.
- Managing Hindustan Unilever Limited (HUL) Applications based on WebSphere Application Server (ND) and JBoss (For Application deployed on Amazon EC2).
- Fixing environment Security vulnerabilities per PCI compliance for HUL.
- Automating WebSphere Application Deployment using wsadmin and BASH Shell Script.
- Managing MB/MQ
- Project work experience in Installation/Configuration and upgrade of Enterprise infrastructure including WebSphere/ JBoss Application Server and IBM/Apache Web Server.
- Patched various system as per PCI Compliance to overcome from various CVE as found and reported by Vendors and InfoSec.
- Implementation of SSL certificates to web servers and Application Servers.
- Level 2 (L2) responsibility for developing monitoring using Nagios.
- Automation using IPsoft proprietary tool IPautomata.

- **Organization:** NTT Data (formerly First Apex Software) *(1 August 2011 - 15 Dec 2011)*
Designation: Software Engineer

About Team:

Customer Product Team is responsible for designing/customizing First Apex product as per Customer requirement.

Client:

Warba (Kuwait) and POP Vakuutus (Finland)

Role and Responsibilities:

- Member of development Team working dedicatedly in developing BFSI projects for Insurance based companies which involves sector like Motor Insurance, General Insurance and covers the full cycle of insurance operations from point of sale right through to the general ledger.
- Application development using FTL (Free Text Markup Language) and J2EE.
- Database used Oracle 9i with Application Server WebSphere Application 6.

Certification and Training

- **Red Hat Certified Engineer (RHCE)**
Certification Number: 805010137051739
- **VCE - Converged Infrastructure Associate**
Certification Number: VCE-CIA0001957
- **Rack Space CloudU Certified**
Certification Number: a04275f1-db84-493a-a171-6024ae58a6b0

Education

Standard	Year	Score	Percentage	School/College/University
X - CBSE	2004	365/500	73.0	Kendriya Vidyalaya No.2 Golconda Hyderabad, AP
XII - CBSE	2006	398/600	66.3	Kendriya Vidyalaya No.2 AFS Hindon, Ghaziabad, UP
B.Tech - CSE	2007-2011	3864/5000	77.3	Uttar Pradesh Technical University

Personal Details

Present Location	Bangalore
Permanent Address	Ghaziabad (National Capital Region), UP
Citizenship	Indian
Passport	J8150903 valid till 21 May 2021
PAN Card	CFJPS1299R
Marital Status	Married

Languages

Hindi (native) **English** (fluent)

Declaration

I solemnly declare that the above information is true and correct to the best of my knowledge. I understand that if any information given above is found false/incorrect, my candidature is liable to be rejected.

Date:

Place: Bangalore

Yogesh Kumar Sharma