

# Megha Garg

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Devops Engineer with 7 years of experience in System Administration, DevOps, and operation and consulting around Linux, Open Source Technologies and Cloud implementation with hands on experience in configuring and maintaining the Webservers like Apache, Nginx, Tomcat. Also hold extensive experience in managing micro services using Docker.

- AWS Consultation for client infrastructure
- Implementation and support of Openstack and Ceph
- Automation of tasks through scripts in Bash and Python
- Resolution of OS and Application related issues through proper business escalations matrix

## Key Skills

- ❖ **Operating System:** RHEL/CentOS, Ubuntu, Debian
- ❖ **Cloud:** Red Hat OpenStack Platform, Amazon Web Services
- ❖ **Hypervisors:** RHEV, KVM/Libvirt
- ❖ **Containers:** Docker
- ❖ **Development Languages:** Shell/Bash, PHP, AngularJS
- ❖ **Service/Configuration Automation & Orchestration:** AWS Cloud Formation, Heat, Ansible
- ❖ **Web Server/Middleware:** Apache HTTPD, Nginx, Apache Tomcat
- ❖ **RDBMS:** MySQL, PostgreSQL
- ❖ **Storage Technologies:** Ceph
- ❖ **NoSQL:** MongoDB
- ❖ **Version Control Systems:** Git

## Work Experience

### SCALEMonks Technologies LLP (Noida), Senior DevOps Engineer (Sep 2015-Present):

**Project 1:** Implemented Red Hat OpenStack (v9) as per requirement for a Red Hat Client in Philippines. The role included deploying the Openstack cloud, and integration with Ceph block storage for Glance, Cinder, and Nova backends. The deployment was fairly large, 3 controllers, 48 computes. The Ceph cluster installation and configuration was external to OpenStack Director, and was deployed using official Ansible playbook.

Also, provided support in the compliance activity which involved preparing and performing POC for various inspection scenarios and demonstration of various cases as per the list provided by the inspection team for both Ceph and Openstack to the review team.

**Project 2:** Dockerized the in-house legacy applications for McKinsey. The major tasks involved

the understanding of application flow, segregating the frontend, backend and micro-services. This was followed by setup and integration of the application on Docker with the respective micro-services using CircleCI.

**Project 3:** Sysadmin support/consulting for web development organization. This is support for a LAMP architecture behind the Load balancer using RDS hosted on AWS.

Support involves setup and maintenance of various AWS services (CloudWatch, EFS, EBS, S3), writing shell scripts for automating tasks. Also, Implemented the SAP infra on AWS using CloudFormation.

**Project 4:** Provided Implementation support in containerizing the applications for a SME from the legacy physical server architecture. The tasks involved designing and configuration of the infra and subsequent migration and addition of applications.

**Project 5:** Development of application in AngularJS for a client in Financial domain. The architecture involved Nodejs in frontend serving AngularJS and HTML with MySQL in backend.

**Project 6:** Provided support for the project of Govt of Sri Lanka on Red Hat Openstack. Tasks supported involved consulting for the deployed Openstack environment. Recommendations were tested and implemented through templates.

**Miscellaneous:** Designed and configured horizontally scalable application hosting architectures, often on AWS for clients and writing Ansible playbooks creating AWS infra.

### **Opus Consulting Solutions (Pune), Engineer-Development (Sep 2014-Sep 2015):**

**Hadoop/MongoDB Implementation and support:** Implemented Hortonworks Hadoop and MongoDB to store transactional data, scaling cluster and day to day activities for supporting client requirements including automation scripts, troubleshooting the cluster, along with monitoring, job scheduling, testing the alternate components and integrating the improved components, upgradation to newer versions.

### **Keen & Able Computers (Gurgaon), System Administrator (July 2012-Sep 2014):**

**Project 1:** Sysadmin support/consulting for US-based NGO. This role majorly involved consulting on server consolidation activities, server availability and security support, hardening of servers, Log analysis and performance tuning of the LAMP stack. The tasks also involved setting up backup scripts and pushing to Rackspace Object Storage using Rackspace APIs.

**Project 2:** Designed and tunes database for a high-traffic e-commerce site. The Web app faced severe performance bottlenecks during peak hours, and the company was already able to pinpoint it to a DB performance bottleneck by the time they consulted Keen & Able. Was part of the team that worked on optimizing the MySQL DB schema, query rewriting by optimally using

table indexes, table partitioning. Knowledge on pros and cons of various MySQL storage engines was a prerequisite for the project.

**Project 3:** Provided MongoDB support to website which was using MongoDB as a backend. Was responsible for installing, replication and sharded setup, up-gradation, proving access to users and maintaining it as a whole.

**Project 4:** Implemented and designed RHEV for Govt of India Organization. Designed the architecture for RHEV based on the specific requirements of the organization and implemented the whole setup in data center including the storage and network.

## **Certifications**

- Red Hat Certified Engineer (RHCE )
- Red Hat Certificate of Expertise in Deployment and Systems Management (RHN)
- Red Hat Enterprise Virtualization Administrator (RHEV)
- Red Hat Certificate of Expertise in Server Hardening

## **Education**

Qualification	University	Year of Completion
B. Tech (Computer Science)	MDU, Rohtak	2012
Class 12th	CBSE, Delhi	2008
Class 10th	CBSE Delhi	2006