
Mohit Kumar Sharma

DevOps/Cloud Engineer

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SKILLS:

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|---|--------------|
| • AWS | Advance |
| • Azure | Intermediate |
| • GCP | Intermediate |
| • DevOps | Advance |
| (Terraform, Ansible, JIRA, Trello, Bamboo, Jenkins, Kubernetes, Vagrant, Puppet, Docker, Packer, Consul, Vault) | |
| • Git (Github, Bitbucket) | Intermediate |
| • Programming language | Intermediate |
| (Python, Golang, Groovy, C, Java) | |
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| • Scrum | Intermediate |
| • Confluence | Intermediate |
| • LINUX | Intermediate |
| (Redhat, Ubuntu) | |
| • Apache Hadoop | Intermediate |
| (HDFS and MapReduce) | |

Experience:

NTT Data

DevOps Engineer Advisor

Jaipur Toastmasters Club

Treasurer (Jan 2021 - Present)

Jaipur Toastmasters Club

Vice-president Education (July 2020 -Dec 2020)

Flux7 Inc.

DevOps Engineer II (Dec 2018 – Dec 2020)

Flux7 Inc.

DevOps Engineer (Dec 2017 – Dec 2018)

Certifications:

- AWS Certified Solution Architect - Associate.
- AWS Certified Developer.
- Microsoft Azure Fundamentals Certified
- Certified Kubernetes Administrator.
- Certified Kubernetes Application Developer.
- AWS Business Professional Online.
- AWS technical Professional Online.
- Hackathon Merit Certification.

Publications:

- Don't fear Cloud Lock-in
- How to Publish Managed Images to the Azure Marketplace
- Shave Days off Azure Marketplace Publishing with Automated Testing

Projects:

Proffer(Personal open-source project)(Aug 2020 - Present):

Created a cross-platform tool for distributing cloud images for different cloud providers. Integrated full application development and release cycle using GitHub actions.

Project source page: <https://mohit-kumar-sharma.github.io/proffer/>

Database migration (Dec 2020 - Dec 2020):

Created an automated solution to migrate multiple on-instance databases to the AWS Arora clusters.

Sensor Migration and hardening(June 2020 - Nov 2020):

Migrated security application. Baked and hardened the application image for the multi-cloud platform(AWS, GCP, Azure, Vmware, and hyper-v). Created an

automated solution for the generation of CIS benchmark reports and failure alerts.

Application migration and hardening:(Jan 2020 - June 2020)

Migrated legacy security applications from ubuntu16 to ubuntu18.
Hardened the application image using CIS benchmarks. Created automation to apply and generate the benchmark report as part of CI.

Automated the deployment and testing of different server: (Dec 2019)

Baked different CIS hardened AMI with diff components and provisioned and configured the systems using terraform, ansible, puppet.

Convert the Bamboo Plans in Cac and automate the puppet component creation: (Oct-Nov 2019)

Converted the bamboo plans into the configuration as code using bamboo java specs. Created centralized library so each plan can utilize the central lib for diff kinds of common functionality. Automated the creation of puppet modules, roles, and profiles using bamboo plans.

CIS Hardening of AMI and generating the report for benchmarks:(Sep 2019)

Created CIS hardened images and generated the report so one can identify the gaps between the benchmarks.

Testing Framework for Puppet: (Aug 2019)

Migrated the old puppet modules in a new format using the Puppet development kit. Automated testing of puppet modules using Beaker, RSpec, PDK.

Automate the creation of Ansible role with best practices: (July 2019)

Create the GitHub repo for an Ansible role with best practices using the automation tool and populate the default values. Added git pre-commit hooks so the developer can perform some basic validation before committing his code.

Automate the execution of Jenkins jobs based on git tags: (June 2019)

Execute the Jenkins jobs based on custom git tags or comment messages and perform some tests on committed code.

Testing Framework For Ansible: (Apr 2019 - May 2019)

Automated testing of Ansible roles.

<https://blog.flux7.com/using-molecule-for-test-driven-development-of-ansible-roles>

Email Notification Based on Pattern: (Mar 2019 - Apr 2019)

Deployed lambda and Cloudwatch event rules to get email notifications based on the given pattern.

Deployment Of Batch Jobs: (Dec 2018 – Feb 2019)

Deploy AWS Batch Job infra and container components and also trigger the batch job from Jenkins pipeline itself.

Blue-Green & Rolling-Restart Deployment: (Sep 2018- Nov 2018)

Migrated on-premises containerized applications to AWS. Created Jenkins pipelines to deploy/update the applications on the kubernetes cluster to different environments.

<https://www.gartner.com>

<https://blog.flux7.com/enabling-a-blue/green-rolling-deployment-with-amazon-eks>

Migrate op-premise application to K8s platform: (Aug 2018 - Sep 2018)

Migrated on-premise applications to the k8s cluster.

<https://www.gartner.com>

Application Pipeline: (June - July 2018)

Created an application pipeline using diff automation tools like Jenkins, Ansible, MapReduce and diff AWS services.

Processing of BigData using Jenkins Pipeline: (Apr 2018)

Process BigData using Jenkins Pipelines and AWS EMR and providing the flexibility to perform any operation on that data and data can be larger as possible.

AWS Account Hardening: (Dec 2018 - Feb 2018)

Deployed ansible playbooks and Jenkins pipeline to automate the bootstrapping process in the newly created AWS account. Deployed Jenkins pipeline to automate security standards in a newly created AWS account.

Flash-Go: (June 2017- Aug 2017)

Cloud developed In python, ansible with the Help Of Docker Containers, KVM,iSCSI, LVM.

Provide Services: SAAS, STAAS ,IAAS,CAAS,PAAS.

Hadoop Automation Tool:

(June 2016- July 2016)

Hadoop Automation Tool using python and Apache Hadoop for Linux based systems.

Achievements & Awards :

Company:

- Happy Customer Award (Gartner) at Flux7 inc.
- Happy Customer Award (AT&T) at Flux7, An NTT Data company.

Toastmasters International Club:

- Best Speaker Award.
- Best Evaluator Award.
- Club level Evaluation contest runner-up
- Club level Table Topic Winner

Academic:

Secured First Position In the 3rd Semester.

Secured First Position In 1nd Semester.

5th National Level Project Exhibition 2016 (SEPTEMBER 15,2016)
(Won 6th Consolation Prize)

3rd National Level Project Exhibition 2015 (SEPTEMBER 15,2015)
(Participation).

Trainings :

Scrum:

(1st Aug - 30th Aug 2019)

Cloud Computing with Docker and Ansible:

(1st JUNE - 29th JUNE 2017)

A developed cloud which provides Cloud computing service like IAAS, STAAS, CAAS, SAAS, PAAS.

Bigdata Hadoop, RHCSA & RHCE: (15th FEBRUARY,2016-28th JUNE,2016)

Administrator level and programming of Mapper and Reducer,
Automation of Hadoop and training in RHCSA & RHCE.

Community Member or Volunteer Experience:

- K8s community member
- AWS Certified Global Community member

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- CNCF community member
 - AWS Partner Network Global Network Member.
 - Azure Community Member.
 - Golang Community Member.
 - Toastmasters International Member

Education:

Bachelor Of Technology: (2014 –2018)

Computer Science and Engineering.

From Vivekananda Institute Of Technology, Jaipur.

Senior Secondary: (2013- 2014)

From Tagore Vidhya Bhawan, Shastri Nagar, Jaipur.

Secondary: (2012 – 2013)

From Tagore Vidhya Bhawan, Shastri Nagar, Jaipur.

Summary:

Experience in DevOps culture and designing automated solutions for multiple clouds. Extensive Experience in the design and implementation of fully automated Continuous Integration, Continuous Delivery, Continuous Deployment pipelines, and DevOps processes for Agile projects. Having experience in migrating applications from on-premise to cloud.

Hobbies:

Playing Cricket.

Learning Technologies.

Public Speaking.

Strengths:

Time Management.

Good Grasping Power.