Divya Goswami

+919330687068
mail@rachejazz.me

Versatile Developer and Operational engineer with experience in system administration, site reliability, automation and programming. Deployed sites and debugged and analyzed server failure in the past. Automated manual workflows that slashed build time by 80%. Capable of working under pressure and with patience.

Skills

- Scripting and Automation:
  - Scripts using Bash and Python over AWS Lambda and service scripts on k8s clusters
  - Deploying clusters with Ansible script and monitoring health over ArgoCD
- Version control system: Demonstrate expertise in the knowledge of GitOps.
- System Administration:
  - Efficient both on Linux and Windows servers.
  - Tested software deployment on local environments using VirtualBox and VMWare.
  - AWS services handling on IAM, EC2, ECR, S3, ELB, Lambda, VPC, Cloudwatch.
  - Kubernetes Monitoring and Security with Falco and Kskan. Secret Management using Hashicorp Vault and cluster hardening based on CISA rules.
  - Hardening Docker images and setting up healthchecks for failed pipelines.

Education

- **Heritage Institute Of Technology**
  Btech in Computer Science
  2018 - 2022, KOLKATA, CGPA 7.9

My Personal Experiments and Projects

Portfolio link: https://rachejazz.me
Github Profile: https://github.com/rachejazz
Talks:

- Divulging your social profile Nov 2020
- Dumb Browser ft. Smart Policy June 2021
- Looking for Open Source Software on Z? Sept 2021
- Who Begat Python? Sept 2021
- Software Discovery Tool! Sept 2021

Tech Blogs:
https://rachejazz.me/blogs.html

Certifications and Volunteering

- **IBM Z Ambassador 2021**
  - IBM Z, Your Big Year
- **GHC Scholar and OpenSource Mentor 2021**
  - Anita Borg
- **Beginner in Linux Kernel Development (LFD103)**
  - Linux Foundation
- **Linux Server Management and Security**
  - University of Colorado System, Coursera

Experience

- **Independent Security Researcher**
  2019- Present
  - Using Linux for 4years for tool building and scripting.
  - Currently building a tool for Domain/IP Enumeration.
  - Written small reports on Application security issues, tested self deployed machines for loopholes.
  - Constantly updating skills over security labs, preparing for certification. Willing to move to Incident Response workflow.

- **Dev(Sec)Ops Intern**
  September 2021 - March 2022
  Trell Experiences Pvt Ltd.
  - Implemented GitOps Security - access control and cicd pipeline upgrade
  - Automation of 30% devops monitoring and workflow. Created scripts to check for unprivileged user using sudo on server, auto allocation of tags for cost exploring on AWS, setup monitoring on grafana using gin metrics over prometheus, for on demand log monitoring based on time period over kibana, automate exit policy for employees exiting the org. Created lambda scripts to remove unused ELB volumes and ECR images.
  - Docker and Kubernetes Security - Deployed k8s vault via helm for secret rotation and management. Setup Falco via helm for monitoring events on k8s cluster. Scanning and setting up alert systems for misconfigured manifest files. Created hardened Docker images for restricting privileges to running services.
  - System-Admin and IAM management on AWS. Implemented Tag-Based resource allocation for various teams of the org. Worked on segregating Windows server for separate vendor teams by user access management over Windows file system.

- **Open Mainframe Project Mentee'21**
  June2020 - Aug 2021
  The Linux Foundation, IBM Z
  - Revamped a Flask application for IBM Z
  - Refactored 70% of code and improved UI and Backend.
  - Scripted automations for pulling and formatting data for various Linux Distributions.
  - Reduced 80% manual configging and reloading of server that helped moving forward with CI/CD Pipeline
  - Tested deployments and used git submodules to make data import from different more flexible.

- **Jr. DevOps Engineer**
  2020 Dec - 2021 Feb
  Dynopii Pvt. Ltd.
  - Administered 4 Ubuntu servers
  - Surveillanced application deployments on Digital Ocean.
  - Wrote Dockerfiles and docker compose and tested deployment locally on VMWare.
  - Setup fail2ban firewall for preventing online VoIP server attacks.