



HARI KOUSHIK G

SITE RELIABILITY ENGINEER II

ABOUT

Critical thinking DevOps Engineer with extensive understanding of high availability architecture and concepts. Enthusiastic, and eager to contribute to team success through hard work. Motivated to learn, grow and excel. Worked on network topology, Firewalling, CI-CD tools, SIEM, SAST, DAST, NDR, and XDR tools, also implemented various security measures and best practices through out organization.

TOOLS & TECHNOLOGIES KNOWN/USED

- Fortinet FortiGate Network Firewall
- CI/CD: Jenkins, Argo CD, Concourse, Gitlab runners.
- CNAPP: CrowdStrike, Lacework, Wiz.
- Network (TCP/IP): AWS Network firewall, Palo Alto, WAF, API security.
- Orchestration: Puppet, Ansible, terraform.
- Hunt Tools: Wireshark, BurpSuite
- Penetration Testing: NMAP, Metasploit, Nessus
- Ticketing tool: ServiceNow, Jira
- REST API
- Python Scripting

OPERATING SYSTEMS

- Windows
- MacOS
- Linux (Ubuntu/Kali Linux/Parrot OS)

WORK EXPERIENCE

Sixt R & D (Site Reliability Engineer II) - Sept, 2021 - current

- Single-handedly configured Fortinet FortiGate Network firewall to filter Egress traffic with minimum changes to the existing infrastructure.
- Automated Scheduled instance re-rolling to use the latest AMI and redeploy the applications to remove known vulnerabilities using step functions.
- Configured AWS security services (Guard Duty, Macie, Access analyzer) and integrated into Jira, Opsgenie, and Slack to get direct alerts using step functions and lambda.
- Migrated log-Ingester and Prometheus to use graviton2 processors, including changing the architecture for all the residing docker containers.
- Migrated Build infrastructure to use Kubernetes, by creating an EKS cluster and creating Helm charts for all existing applications.
- Integrated GitHub Advanced Security roll-out (SAST Tool) for all the repositories under the Org.
- Integrated CrowdStrike and lacework as CWPP for all platforms.
- Brought in Argo-CD to reduce build environment management hassle.
- Introduced IRSA, and implemented the same all over the organization to remove the usage of access and secret keys inside k8s applications.
- Integrated AWS network firewall, by re-structuring the network architecture, with zero downtime.
- Other maintenance tasks - upgrading Postgres DB, security patching, OpenSearch upgrading, and management.
- Created an all-in-one dashboard for all the repositories with GitHub advanced findings, and docker image vulnerability findings based on teams that update every day.

PERSONAL SKILLS

Creative spirit
Reliable and professional
Team player
Fast learner
Strong Analytical and Problem solving skills

HOBBIES

- Bike Riding
- Kick Boxing
- Travelling

Harman Connected Services (DevSecOps Engineer) May, 2018- Sept, 2021

- Monitored automated build and continuous software integration process to drive
- build/release failure resolution.
- Automated and implemented backup and recovery procedures for EC2 Instances.
- Implemented new software applications and operating system rollouts across the business enterprises, including Web Application Firewall(WAF)and CloudFront.
- Quickly learned new skills and applied them to daily tasks, improving efficiency and productivity.
- Increased customer satisfaction by resolving Latency issues by implementing CloudFront.

Projects in Harman

- Created Production environment for Catalyst project using terraform, Kubernetes, and Jenkins.
- Introduced and developed a monitoring stack for Kubernetes and other AWS resources like SQS, Lambda, and API gateways.
- Introduced Web Application Firewall to all the Web applications and reduced 20% downtime caused due to cyber attacks
- Migrated Non prod and Prod applications to AWS using terraform.

EDUCATION

BACHELOR OF ENGINEERING

Department: Electronics & Communication

College: Siddaganga Institute of Tehnology, Tumkur, India

Passed out in Year : 2018

SKILLS

- Security Incident Response
 - Familiar with OSI layers, TCP/IPsuite, Ports & Protocols.
 - Familiar with security solution like Firewall, IPS/IDS, Proxy, web server,application server, mail server,Active Directory, DNS.
 - AWS, Terraform
 - Fortinet(Fortigate, Forti Analyser, Forti Manager)
 - Kubernetes, Docker
 - Unix/Linux, GIT
 - Cyber Security
 - Configuration Management
 - Python3
 - Apache and Nginx
 - Agile
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LANGUAGES KNOWN

- ENGLISH
- HINDI
- KANNADA

CONTACT

P: 7204852076
E: harikoushik.aj@gmail.com
github: <https://github.com/ajkoushik>

BLOGS AND CONFERENCES

- Wrote a medium blog on AWS network firewalling.
<https://medium.com/p/9d61c4411188>
- Attended Techspark 2022 conference on trending technologies.
- Was part of SRE-Con by google at Munich in 2022.
- Was part of SRE-Con Bangalore April 2023

CERTIFICATIONS

-  Python Programmer
-  AWS ECS & VPC training
-  Kubernetes training
-  Linux training
-  Cyber Security Certified
-  AWS
-  Network Firewalling

AWARDS

- Best of the Best student of the year award from Technoshepere in 2018.
 - Legend Of the Month December 2019 from Harman Connected Services.
 - MVP of the Quarter Q4 2022 by Sixt R & D.
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