Akash Verma

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SUMMARY

Computer Science graduate committed to mastering Dev-Sec-Ops. Thrives under pressure, excels in teamwork and ability to adapt to situation. Continuous learner through platforms like Udemy, Coursera, PicoCTF. Passionate about security, dedicated to excellence.

TECHNICAL SKILLS

Programming / Automation: Python, Bash, Shell

DevOps Tools: Git, Jenkins, Terraform, Docker, Kubernetes

Database: MariaDB, MySQL, Amazon RDS

Security Tools: Wireshark, Nessus, Splunk Enterprise, Nmap

Operating systems: Linux, Windows

Cloud Infrastructure: AWS, GCP

WORK EXPERiENCE

Software Engineer   Aug '2023 - Present

Zscaler | Pune, IN

- Provided patching solutions using **Ansible**, reducing manual effort by 70%.
- Automated Features and manual tasks using **Python** with Pandas, os and shutil, and **Shell scripts**. Used **Git** for version control and **Bitbucket** for managing repositories.
- Conducted debugging and troubleshooting of **Windows**, and **Linux** systems. Resolving over 20 customer-reported **JIRA** tickets promptly.
- Analysed **TCPdump** output to diagnose network anomalies, such as unusual traffic patterns, packet loss, and network latency, using **Wireshark** for in-depth packet inspection and protocol analysis, and developed custom filters and dissectors in Wireshark to extract relevant data.
- Implemented **Terraform** for **Infrastructure as Code**(IaaC) to automate deployment of Network components process, resulting in a 40% reduction in provisioning time. Used **AWS S3 buckets** and **DynamoDB** for statefile remote backends.

Software Engineer   Feb '2022 – July2023

Robert Bosch | Pune, IN

- Installed, configured, and managed **Splunk Enterprise** environments, Created Alerts and dashboards for **monitoring** performance and log analysis through Splunk.
- Utilized **Wireshark** and tcpdump to analyse network traffic and diagnose issues related to **HTTP/HTTPS**, and **TCP** protocols. Resolved 15+ **ServiceNow Incidents** reported by customer.
- Utilized **Jenkins** for code building, testing, integrating with Splunk for real-time monitoring.
- Collaborated with IT teams to create **DockerFile** for handling peak traffic periods using **Kubernetes Pods**.

System Engineer   Sep '2020 – Feb2022

Infosys | Pune, IN

- Identified security vulnerabilities, initiated customer tickets over **ServiceNow**.
- Prepared a **shell script** for automatic upgradation of **Splunk** servers.
- Subject Matter Expert for **incident response** team, presenting performance enhancement proposals and optimizing Splunk resource utilization.

KEY PROJECTS

(*Deploying NodeJS WebApp with DevSecOps principals*)

- Wrote a **Dockerfile**, creating **NodeJs-App** image along with **nginx** for **reverse proxy**, Integrated the CI/CD using **Jenkins**.
- Used Jenkins plugins for **OWASP Dependency check, Docker, SonarQube, Trivy, Prometheus and Grafana**.
- Used Prometheus Logs for **Node Extractor** and Jenkins to create **Dashboards** on Grafana automatically during the Pipeline Run.
- Implemented necessary security measures in AWS by configuring of **Security Groups, Elastic Ips, VPCs**.
- this project utilizes **AWS Elastic Kubernetes Service** (**EKS**) for container orchestration, ensuring efficient management and scaling of application workloads

EDUCATION

BTech in Computer Science   *Jun 2016- Jul 2020*

Graphic Era Deemed University | Dehradun, IN

- Graduated with an average of 7.5 CGPA and specialization in Cloud Computing.
- Developed a web Application for RTI(Right to information) to eliminate duplicate queries and manual entry submitted on the RTI Govt. website.

CERTIFICATIONS

- Vulnerability Management | Purdue University
- Cyber Security Case Studies | Purdue University
- Cyber Security Foundation | Purdue University
- Introduction to Cybersecurity Tools & Cyber Attacks | IBM
- Splunk Core Certified Power User | Splunk
- Splunk User Behavior Analytics | Splunk

ADDITIONAL INFORMATION

- Language: Hindi, English
- Interests: Playing Piano, Guitar, Mixed Martial Arts