

Souvik Sharma

Senior System Engineer

Aspiring security and network automation professional with specialized experience in design, implementation and support of load balancer firewall, IPS, router, switches and hybrid cloud. In depth experience in providing network and security operations, support to eight data center on-premises. I am eager to leverage my networking expertise and automation skills to drive innovative solutions that enhance operational efficiency and scalability

PROFESSIONAL EXPERIENCE:

Senior System Engineer @ Infosys Limited, Kolkata, West Bengal.

Nov 2021 – Present

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TRAINING & CERTIFICATION:

Automation Testing Master Program - Dec 2023-Aug 2024

PROJECT:

PROJECT NAME: DCM-PRODUCTION CLOUD (On-Premises)

- ❖ This project supports hybrid cloud environment hosted server requirements with services like VM build, system support (windows and Linux) and their networking needs such as remote connectivity, security, authentication, internet needs (proxy, load balancing) and cloud needs.
- ❖ I have been part of this project for almost 4 months, Working as L2 network security engineer.
- ❖ Cisco Firepower(IPS): Utilize access control lists to limit network traffic. Enabling logging and alerting on all devices. Monitoring performance and blocking malicious events, attacks and threats. Created group and added malicious IP in the group automatically.

PROJECT NAME: IREMOTE SUPPORT

- ❖ This project supports iRemote Web Application and Managing Enterprise LBs Service like troubleshooting technical issues and providing solutions to all users and on boarding of multiple applications webapps.
- ❖ I have been part of this project for almost 1 year 6 months, Working as L3 support engineer.
- ❖ Manage all Big-IP services & design across all regions, Manage Big-IQ deployment and management Provide Network engineering services in a large SharePoint environment. Traffic load balancing function and manipulation procedures along with sizing and capacity planning based on high availability. WAF configuration, learning, analyzing and blocking attacks like log4j, SQL injection, cross site scripting, password attacks etc.

PROJECT NAME: AISECOPS

- ❖ *I have been part of the AISecOps (On-Premises) project for nearly 10 months, supporting a hybrid cloud environment with comprehensive server requirements. This includes VM builds, system support for both Windows and Linux, and a range of automation needs. These automation tasks encompass self-service portals, malicious IP blocking, certificate renewal, backup automation, security, authentication, as well as internet services such as proxy and load balancing, and various cloud-related requirements. Additionally, I developed, deployed, and managed AI-driven security solutions to detect, respond to, and mitigate cyber threats.*

PROJECT NAME: DELL AUTOMATION

- ❖ *This project was for automating dell switches for patch update changes of configurations adding and backup and upgradation of os image in switches. By creating a UI interface using react and backend python and migration of switches.*

WORK EXPERIENCE:

LOAD BALANCER (F5-LTM, ASM):

- *Manage all Big IP Network IP services & Design.*
- *BIG-IQ deployment and management.*
- *Provide Network engineering services in a large SharePoint environment.*
- *Expert in F5 LTM, ASM and SSL offloading.*
- *Have better understanding of DNS, SSL/TLS encryption.*
- *Strong understanding of web traffic load balancing function and manipulation procedures along with sizing and capacity planning based on high availability.*
- *WAF configuration, learning, analyzing and blocking attacks like http parser attack, SQL injection, cross site scripting, password attacks etc.*
- *Generating QK view file upgrading F5. SSL renewal automation using BIG-IQ Automating All the Web Lbs Waf for adding ip address in ip blocking using python.*

ELASTIC SEARCH:

- *Ability to Index, store, search and analyze large volumes of data quickly and in near real-time.*
- *Extracting the metrics from the incoming connection in real-time.*
- *External traffic, hits monitoring and analyzing and troubleshooting.*
- *Upgradation and deployment of elasticsearch in production*
- *Integrating multiple network devices with elasticsearch for getting a better understanding of syslogs coming from devices such as waf, Cisco switches, router, firewall etc.*
- *Setting up anomaly detection and sending anomaly alerts from devices to pagerduty and via mails to get notified of critical attacks and prevents vulnerability in network*
- *Setting up security features SIEM and prevents false positive alerts with advance anomaly detection process.*
- *Troubleshooting critical issues in elasticsearch infrastructure and help in resolving in backend and frontend.*
- *Automated elasticsearch indexes using python for generating monthly and weekly reports.*
- *Automated elasticsearch ML jobs to generate a reports of attacks coming.*

OTHERS:

- *work on python script for monthly patch update of linux servers.*
- *Scripting o python for gcp cortex integration on all the VMs with multiple OS.*
- *google cloud automation using terraform for creating VCP, VMs, Kubernetes Engines, Images, Buckets etc.*
- *Selenium and cypress : Automated testing of web applications using selenium and java through xpack, id, name and multiple web elements finding hidden elements and testing of all the features and capture screenshots of each steps. Modified testing process using testing, junit, cucumber framework and generating reports of test cases. Cypress and node Js used to automate the process of testing with a best UI interface easy to use and write test cases.*
- *Database automation using jdbc and java for creating updating and deleting data from databases and tables.*
- *Using selenium grid run the test cases through docker.*

SKILLS :

- *Infrastructure Automation*
- *Cloud Platforms (AWS, GCP - Beginner)*
- *Scripting (Python (Flask, Django), Java, node js)*
- *Network Security (Checkpoint, F5, Cisco, FMC, Switches and Router)*
- *Automation tools and testing framework(eg. selenium, java, node js, cucumber,cypress, testng, junit)*
- *Machine learning and AI*
- *API testing using rest assured, postman and Jmeter for load, stress testing*
- *Cloud automation in AWS*
- *Docker and jenkins*

EDUCATION :

Jan 2014-Mar 2015

Berhamore J.N.Academy, Berhampore
Seconary acquired percentage: 83.5%

May 2015-May 2017

Berhamore J.N.Academy, Berhampore
HSC acquired percentage: 75%

Aug 2017- Aug 2021

Heritage Institue of Technology, Kolkata
Electronics and comunication Engineering, B.Tech
acquired percentafge: 60%

Regards,
Souvik Sharma
