

D Nandakumar

Network Security Automation Engineer
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PROFESSIONAL PROFILE

Results-oriented Network Security Automation Engineer with a Master's in Cyber Forensics and over 7 years of experience in IT infrastructure and network operations. Specialized in automating network tasks using Python and Ansible to improve efficiency and reduce manual errors. Proven track record in developing custom automation tools for Cisco ACI/NDFC environments, managing firewalls, and implementing rigorous security protocols. Certified Ethical Hacker (CEH) with strong proficiency in Linux, Network Monitoring, and Cloud Fundamentals.

TECHNICAL SKILLS

Network Automation & Scripting: Python (Netmiko, Paramiko, Pandas, Flask, Scapy), Ansible, JSON, YAML.

Network Security: OSSEC (SIEM), pfSense, IPTables, Checkpoint Firewall (4800), ClearPass OnGuard.

Networking: TCP/IP, OSI Model, DNS, BGP, OSPF, MPLS, VRF, Cisco ACI, Cisco NDFC.

Tools & Monitoring: PRTG, Whatsup Gold, GNS3, Wireshark, CSPC (Cisco Service Platform Collector).

Web & Database: HTML, CSS, JavaScript, MongoDB.

Operating Systems: Linux (RHEL/Ubuntu/Debian), Windows Server.

PROFESSIONAL EXPERIENCE

Comcast India Engineering Centre | Network Security Automation Engineer Nov 2022 – Present

- **Network Automation (AutoNetDeploy):** Developed a comprehensive Python program to automate the implementation and decommissioning of network devices within Cisco ACI and Cisco NDFC environments.
 - *Result:* Reduced execution time significantly by automating naming conventions and consolidating user inputs via a single text-based interface, executing tasks via Ansible playbooks.
- **Security Operations (NetSecOps):** Designed and deployed a local web portal to visualize port status across Cisco and Juniper devices, providing real-time details on IP, speed, SFP type, and connection status.
- **Configuration Management:** Scripted a Python solution to automate configuration backups for legacy Cisco, Juniper, and F5 devices that lacked native automatic backup features, transferring data securely to backup servers.
- **Storage & Maintenance:** Automated storage management scripts to delete obsolete backup files and synchronized primary backup servers with secondary locations, integrating notifications via Microsoft Teams.

- **Infrastructure Monitoring:** Implemented PRTG monitoring tools to enhance network visibility and collaborated with incident teams to set up sensor-based alerts.
- **Device Management:** Managed Cisco Service Platform Collector (CSPC) to ensure all Cisco devices remained in sync with the server database.

Ebixcash Mobility Software India Ltd. | *Senior Network Field Engineer Nov 2019 – Nov 2022*

- **Network Operations:** Monitored and troubleshoot complex network issues involving BGP, OSPF, and MPLS protocols.
- **Security Implementation:** Implemented and maintained the "OSSEC" SIEM tool for intrusion detection. Managed firewall configurations using pfSense, ITMA, and Linux IPTables.
- **Automation:** Wrote Python scripts using Netmiko and Paramiko to automate daily maintenance activities, including a service desk automation tool for ticket raising.
- **Dashboarding:** Created a centralized dashboard to monitor router/switch status, bandwidth utilization, and routing protocol health (OSPF/BGP).
- **Firewall Management:** Gained hands-on experience managing Checkpoint-4800 firewalls and maintaining antivirus servers for endpoint security.

Precision Infomatic (M) Pvt. Ltd. | *System Engineer June 2018 – Nov 2019*

- **Endpoint Security:** Provided L1 support for Symantec Antivirus and AD-Server management.
- **Network Access Control:** Led the implementation of port security tools, specifically ClearPass OnGuard.
- **Monitoring:** Utilized Whatsup Gold to monitor all network endpoints and devices, ensuring high availability.
- **Support:** Handled L1 support for switches, Active Directory, and desktop/printer troubleshooting.

InnovSource Services Pvt. Ltd. | *Customer Relationship Executive Jan 2016 – Oct 2016*

- Technical Support: Troubleshooting Radio Frequency (RF) and physical connectivity issues for data cards at customer locations.
- Escalation Management: Handled on-time escalations and provided L1 desktop support.

EDUCATION

Master of Science

Madras University
(Cyber Forensics and Information Security)
(2019-2021)

Bachelor of Engineering

Jayasuriya Engineering College, Anna University
(2010-2014)
(Computer Science and Engineering)
CGPA: **6.45/10**

CERTIFICATIONS & TRAINING

- **Certified Ethical Hacker (CEH)** – EC-Council
- **Microsoft Certified: Fundamentals (Azure AZ-900)** - Expired
- **CCNA Training** – MAXX TEC-NET ACADEMY
- Course Completion: Completed courses in Generative AI, JNCIA-DevOps, Ultimate PRTG Network Monitoring, Ansible for Network Automation, and Python in Excel.

Declaration

I hereby declare that the information furnished above is true to the best of my knowledge.

Date:

Yours Faithfully,

(D Nandakumar)