Tim Surento Jr.

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Professional Summary

Ambitious IT professional with experience implementing network automation and monitoring solutions with the goal of increasing productivity in mind. I thrive in large scale and fast-paced environments, and I have experience leading teams through various stages in their network automation journey.

Professional Experience

Principal Network Automation Engineer Developer   August 2024 to Present
Oracle, Inc.: Remote – Pittsburgh, PA
Technology Overview: *OCI, AWS, Python, Terraform, Slack, Ansible, SQL, Cisco, Juniper, Palo Alto, OpenSearch, OpenNMS, F5,*

Key Accomplishments & Job Duties:
- Built tooling to create Source of Truth for AWS and on-prem network equipment and integrated data into Netbox & SQL database
- Built tooling to validate AWS and on-prem routing, Network ACLs and security group configurations via Source of Truth configurations
- Built Slackbot for JIRA & Internal ticketing system processes
- Built tooling to parse 1 million + log entries via OpenSearch and generate new ACLs based on the results (with business classification/logic applied)
- Built local docker container toolset for network operations teams
- Escalation point for network related outages
- Led weekly sprint meetings and assigned work items
- Provided mentoring for junior team members in automation and tooling

Senior Network Automation Engineer   December 2022 to August 2024
Vultr Inc.: Remote – Pittsburgh, PA
Technology Overview: *Ansible, Python, Docker, Kubernetes, Linux Administration, Kentik, Netbox, AWX, Cisco, Juniper, Cumulus Linux*

Key Accomplishments & Job Duties:
- Implemented a CI/CD pipeline for network configuration management
- Implemented Netbox and Gitlab as single source of truth for automation inventory which included polling devices and in-house SQL based applications for data population/validation

- Implemented Hashicorp Vault for source of truth secret storage and retrieval
- Implemented AWX running on Kubernetes to manage ansible playbooks
- Managed, standardized and automated network infrastructure changes and configuration templates using ansible and python
- Wrote custom python templates and configuration parsers for ansible playbooks
- Migrated legacy php scripts/cron jobs to python/ansible
- Led training and mentored team members on python, ansible and other network automation tools

Network/Infrastructure Engineer   February 2021 to December 2022
Newport Retirement Services (Bought out by Ascensus Retirement): Pittsburgh, PA
Technology Overview: *Ansible, Python, Docker, Kubernetes, Linux Administration, Kentik, Netbox, Solarwinds, Azure, Opengear, Cisco ASA, Cisco Nexus, Cisco Catalyst, Cisco ISR, Cisco Firepower, Cisco Wireless*

Key Accomplishments & Job Duties:
- Implemented Netbox as single source of truth for automation inventory
- Managed, standardized, and automated network infrastructure changes and configuration templates using ansible
- Performed wireless site surveys and coordinated any necessary changes
- Installed Out of Band network management solution using OpenGear 4G/5G solution at all remote offices
- Managed Solarwinds & Kentik NetFlow monitoring solutions

Network Automation Developer   March 2020 to February 2021
AT&T Labs: Middletown, NJ
Technology Overview: *Ansible, Python, Docker, Kubernetes, Jenkins, Linux Administration*

Key Accomplishments & Job Duties:
- Wrote and modified ansible playbooks for a wide variety of environment and platforms
- Onboarded teams into a Shared Ansible as a Service platform using a mix of AT&T specific and industry standards (Ansible, Docker, Kubernetes) toolsets
- Migrated scripts and custom ansible modules from python2 to python3

Senior Network Engineer   February 2019 to March 2020
OS33 Inc.: New York City, NY
Environment Overview:
Hardware – *Cisco ASA, Cisco Nexus, Cisco FEX, Cisco Catalyst, Cisco CSR, Cisco ASR, Cisco Firepower Threat Defense, Ubiquity Firewall/Switches/Wireless*
Software & Operating Systems – *SolarWinds, AWS, Ansible, Python, Wireshark*

Technologies – *L2LVPN, IPSEC, BGP, OSPF, AWS, STP, SNMP*

Key Accomplishments & Job Duties:
-Team Lead/Manager for a team of 3 engineers. Duties included planning/ assigning work, running meetings, generating reports for leadership, etc.
-Escalation point for all network related issues
-Implemented JIRA sprints for tracking project statuses
-Migrated Cisco ASA firewalls to Cisco Firepower Threat Defense
-Upgraded datacenter circuits to 1GB circuits
-Redesigned office wireless infrastructure
-Automated new client onboarding tasks using Ansible & Python
-Migrated services to AWS using Terraform

Network Engineer   July 2018 to January 2019
S7 Technology Group, LLC.: New York City, NY
Environment Overview:
Hardware – *Cisco ASA, Cisco Routers/Switches, Sonicwall, Fortigate, Meraki Security Appliances, Meraki Switches, Meraki Wireless*
Software & Operating Systems – *PRTG Network Monitoring, CATTOOLS Configuration Backups, Cisco Call Manager, Cisco Unity Voicemail ,Ansible, Python, Wireshark*
Technologies – *L2LVPN, IPSEC, BGP, EIGRP, STP*

Key Accomplishments & Job Duties:
-Support, design and document network infrastructure for ~50 clients
-Escalation point for network related issues
-Automate new configurations and standardize existing network configurations using Ansible and Python
-Create and audit configurations for security based best practice configurations using CIS standards
-Support and design wireless infrastructure
-Migrate clients from legacy Cisco VPN to Anyconnect with hostscan features enabled
-Manage hosted voice services using Cisco Unified Call Manager and Cisco Unity platforms
-Perform circuit upgrades and client moves/buildouts/onboarding

Senior Network Engineer   March 2014 to July 2018
Nordstrom Inc.: Seattle, WA
Environment Overview:
Hardware – *Nexus 2k/5k/6k/7k/9k, WAAS, ACS, ASA5545X, Cisco WLC, Cisco Routers/ Switches, Aruba Wireless Controllers 3000/7000 series, 2900-ISR, ISR4300, ASR1000, cat6500, Meraki MX80/84/100, Juniper MX*

Software & Operating Systems– *SolarWinds NCM/NPM, LiveAction, Cacti, Splunk, NetQoS, Aruba Airwave, Mac, Windows, Linux*
Technologies – *BGP, EIGRP, OSPF, MPLS, DMVPN, QoS, NetFlow, SNMP, SSL VPN, RSA, VXlan, Etherchannels, Python, Ansible, SQL/SWSQL, Web Development*

Key Accomplishments:

-Responsible for supporting a large network infrastructure including 350+ remote store locations, a corporate campus and multiple data centers.
-Duties included tier 3 troubleshooting with an on-call rotation for break fix issues.
-Managed Cisco RMAs.
-Focused on automation and creation of self-service tools using ansible, python and vendor API's.
-Created reports using SolarWinds proprietary version of SQL (SWSQL) for management and the business.
-Created network monitoring dashboards and alerts in SolarWinds and Splunk.
-Created detailed network diagrams using Visio.
-Created documentation and train tier 1 employees.
-Supported a Cisco ASA remote-user/vendor VPN infrastructure.
-Supported an Aruba Master/Local wireless controller domain in a large environment.
-Supported a DMVPN WAN refresh project for over 300 locations. Router and circuit upgrades included.
-Supported a LAN refresh which included swapping devices from Cisco to Juniper.
-Consulted app teams on new application rollouts from a network perspective.
-Managed Meraki full mesh VPN network for remote vendor and work from home access.
-Managed VOIP turn-up projects including implementation and support of QoS.
-Managed circuit connectivity/routing to AWS, Azure and Google Cloud.
-Implemented two factor authentication requirements for all network devices using RSA keys.
-Migrated existing IP address management solution from BTdiamond to Infoblox.

Systems Engineer   July 2013 to March 2014
ACT Teleconferencing Inc.: Lakewood, CO
Environment Overview:
Hardware – *Aruba, Exteme Switches, Juniper Routers, Avaya*
Software & Operating Systems – *WhatsUp Gold, Splunk, NetQoS, Aruba Airwave, Sales Force Ticketing System, Windows, Linux*
Technologies – *BGP, EIGRP, OSPF, SIP, MPLS, STP*

Key Accomplishments:

- Responsible for patch management for 100+ virtual & physical servers. Servers included Linux machines as well as Windows Server 2008 & 2003
- Hyper-V was used for remote management on servers. Experienced in snapshots
- Performed end user account setup\maintenance using Active Directory. Worked with group policies to perform various updates
- Manage and troubleshoot multiple IIS servers
- Setup users and personalize accounts on Microsoft Exchange
- Administered Avaya PBX call routing using Time-of-Day routing as well as Holiday Tables
- Optimized LAN which included Ether-Channel groups for redundancy along with QOS for VOIP phones and first active STP configuration to avoid loops
- Managed multiple vendor relationships
- Experienced an acquisition from an IT perspective. Work included SEP rollout as well as hardware/software integration. Also worked on an IP schema rollout that did not conflict with the company who acquired ACT Teleconferencing.

Help Desk Support – Tier II   March 2013 to July 2013
Data Solutions & Technology Inc.: Denver, CO
    Key Accomplishments:
        - Received Security Clearance for the Department of Treasury: Office of Comptroller and Currency
        - Assist in field office transition from Windows XP to Windows 7
        - Execute training classes on Windows 7, Office 2010, and various banking related software
        - Perform tier II on site help desk duties including windows registry edits, printer, software, and desktop support

Systems Administrator August 2011 to March 2013
Don Brown Bus Sales, Inc.: Johnstown, NY
    Key Accomplishments:
        - Managed an ISP change from an IT perspective
        - Support and maintain VMware ESX servers that included 120 user Active Directory, File/Print servers, and Linux based application servers
        - Configure remote access VPN & ACL based firewall through a Cisco ASA 5505 device
        - Implement a Meraki based WLAN for body/prep shop
        - First point of contact on help desk using Spiceworks ticketing system
        - Train and support end users with various software including Salesforce, Gmail, and Automate Dealership Systems
        - Contribute to weekly meetings with the Vice President
        - Created companies first IT budget
        - Advanced in company from part time intern to full-time Systems Administrator

Education

ITT Technical Institute – Albany, NY   Graduated: September 2011
Associate Degree in Information Technology – Computer Networking Systems