Nathan Wheeler

Systems/Network Automation Engineer

👤 CONTACT

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ℹ️ ABOUT ME

Systems / Network Engineer with a focus on automation. Varying responsibilities in both system and network administration with an **ability to adapt and learn quickly**. In depth Linux and networking knowledge to effectively maintain and **automate** an environment.

🛠️ TOOLS

Ansible Engine	Extensive use with Network Automation
Ansible Tower	Foster automation use within the team
Terraform	Azure application deployments
Jenkins	Job management for automation
ServiceNow	Allow app teams to start network jobs
SLS	Serverless.com: AWS app deployments
NetBox	Network Source of Truth
Azure DevOps	Build & Release Pipelines

📑 SKILLS

Languages	Python ● BASH ● Javascript ● CSS
OS / Apps	Linux ● BSD ● Git ● SVN ● tcpdump ● Wireshark ● NetBox ● Solarwinds ● Confluence ● Vagrant
Networking & Protocols	TCP & UDP ● IPv6 ● SSH ● SSL & IPSEC VPNs ● SNMP ● SAML ● OAuth ● REST APIs ● DNS ● NTP ● DHCP ● Radius ● LDAP ● GRE
Cloud	AWS ● Azure
Vendors	F5 ● Palo Alto ● Cisco ● Opengear ● HP/Aruba ● Brocade

💼 EXPERIENCE

F5 Networks | *Senior Network Automation Engineer*
Feb 2017 - PRESENT, Seattle

Currently lead network automation efforts for F5's network.

Automation / Development
- Created and manage CI/CD pipelines for various applications (Azure DevOps, Jenkins)
- Created an Ansible environment for 180+ F5 BIG-IPs and 500+ switches, routers, etc…
- Developed a zero touch provisioning system for network gear with Python, a REST API, & Ansible.
- Developed an automation framework in AWS around DNS allowing app teams to make their own DNS changes.
- Designed and implemented a CMDB in NetBox & Ansible giving a source of truth for 700+ devices.
- Developed a fully automated solution to deploy BIG-IP VEs and configurations as code allowing the team to tear down and spin up at will.
- Developed a Python web app to allow custom reports using Flask, Terraform, and deployed with Azure App Service & CosmosDB.

Networking
- Manage global network for 5500+ employees across dozens of locations.
- Application Delivery Controller stack management for all F5 public and internal sites.
- Ownership and management of the Remote Access VPN and SaaS SSO for the entire company.
- Part of an on-call rotation.

GTT | *SSL Systems Engineer*
Sep 2008 - Jul 2016, Seattle

Created SSL VPN solutions on multiple vendors that supported over 50,000 concurrent users. Worked with the customer to determine requirements and provide technical expertise.

Development
- Wrote Perl and Python scripts to speed up and standardize implementation configs.
- Created and maintained a new and more effective dashboard for the NOC. Became critical to business allowing the NOC to efficiently view, organize, and manage active tickets.
- Modified the OpenBSD kernel and install process for a built in-house appliance shipped to customer sites.
- Integrated vendor Perl APIs to allow more detailed monitoring and reporting for customers.