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DAVE JODHAN

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EMPLOYMENT

Infrastructure and Ops Engineer — **Brandorr Group** — **April 2017- Present**

- Provided technical support for both AWS and physical servers running CentOS, Ubuntu and AMI.
- Managed cloud infrastructure with Ansible and Puppet.

Network Engineer — **Intersection** — **Feb 2016 – April 2017**

- Leveraged RESTful APIs available on various platforms to deploy over 300+ routers and WAPs for the LinkNYC project, one of the largest urban Wi-Fi Network.
- Automated WiFi Usage reports for consumption by the sales and marketing team as well as capacity and health reports for engineering and support team.
- Deployed test environment in AWS using Python's Boto3 library, configured VPNs as well as Security Groups.
- Developed general diagnostic scripts using Python/bash.
- Work with the Fiber deployment team to resolve Layer 1 issues on a DWDM network.
- Evaluate candidates hardware for new deployments, such as Extreme, Huawei, MiroTek, etc.
- Managed local DNS services for over 600 nodes using BIND, as well supported the DHCP infrastructure.
- Managed a heterogeneous network environment consisting of Cisco, Juniper and Ruckus hardware.
- Turned up VPNs as needed to connect local Development environment to AWS VPCs.
- Planned and executed OS upgrades within NYC DoITT approved maintenance windows.
- Worked with hardware vendor engineering teams to capture relevant diagnostic data to aid in the production of bug fixes.

NOC Technician — **OnSIP** — **Jul 2011 – Nov 2015**

- Implemented the network infrastructure for both dev and production environments to migrate OnSIP's platform from a monolithic design to a geographically distributed SOA.
- Captured metrics for capacity planning for both bandwidth and phone number inventory.
- Provided technical documentation for LAN & WAN infrastructure as well as instructions for configuring PBXs for use with OnSIP's hosted trunking product.
- Created Python and Bash scripts to automate testing and generate usage reports.
- Provisioned IPv6 connectivity to the development stack to mimic production environment
- Deployed and managed Juniper's Dynamic VPN services to the New Jersey office , in support of Accounting and Finance activities
- Provided technical assistance in testing and turnup of IPSec tunnels to Verizon's voice network using Cisco devices, and assisted in migration of the same configuration to Linux Gateways (using OpenSwan)
- Produced and tested configuration instructions for 5 PBX's in support of the OnSIP Hosted Trunking product
- Troubleshoot various LAN, VoIP and Service Provider issues using tools such as mtr, nmap,
- Perform packet capturing, protocol analysis and fault tracing using tools such as ngrep, tcpdump and Wireshark
- Verify networking configuration on Linux hosts using tools such as ifconfig, route, ip, netstat.
- Generate carrier utilization reports and use tools such as Python for parsing carrier reports and collecting useful data
- Performing interop testing as part of the new service provider turn up process and submit test results in the requested format.

IT Support Specialist — **Bronx VA Medical Center** — **Jan 2009 - Jan2011**

- Developed VBA macros to automate logging of common tickets.
- Created user accounts for new hires and updated permissions for access to required subsystems.

Education

- AWS Solutions Architect Associate certification 2017
- Juniper JNCIA 2013
- Cisco CCNA 2010
- Bachelor's degree in Technical Management 2008

Technical Experience

Projects

- **WAP Activation and Update tool**. Using Python, created CLI based tool which takes two arguments, the MAC address of a WAP and the ten character site-id of a Link kiosk and updates the WLAN controller for the WAP using data from an external resource.
- **Network Hardware Report Automation**. Using SolarWind's native SWQL, automated the daily reporting of network hardware status, which included "parent-child" logic, to exclude downstream hardware if an upstream device has failed (making the downstream equipment unreachable).
- **VoIP Load tester**. Using a combination of Asterisk running on Ubuntu 16, as well as Python scripts generate test calls across the network and utilized tshark to generate call quality reports from pcaps.
- **VoIP rate comparison tool**. Using VBA, created macros which compared VoIP rates from various wholesale providers. Some of the logic designed included interstate and intrastate rates and short-call surcharges.

Languages and Technologies

- Python, Flask, Django, ES6 (JavaScript), React HTML/CSS, VBA, SQL, Git/GitHub, SIP/HTTP, TCP/UDP, IP
- CentOS 6/7, Ubuntu 14 & 16, AWS EC2/S3/IAM, SolarWinds, Nagios, Cacti, Ansible.
- BGP, OSPF, IPv4, IPv6, IPSec VPNs, GREs, SNMP
- Cisco ISR 890 and 2900 routers, ASA 5505, Catalyst 2960 switches
- Juniper MX-80, QFX 5100, ACX-2200, ACX-1100, SRX100, SRX210, J-2320, EX-4300
- Ruckus SCG-200, R410s