

Mike Seda

Raleigh, NC 27613
919.368.4879
mike@seda.net

Summary

Detail-oriented self-directed IT professional with history of planning and implementing high-quality cost-effective solutions. Solid analyst with ability to triage and resolve highly complex issues. Strong supporter of comprehensive monitoring and accurate documentation. Focus placed on automation, security, and reliability. Open-source software preferred.

Certifications

Certified Kubernetes Administrator | Linux Foundation | 02/2021

Red Hat Certified Specialist in Ansible Automation | Red Hat | 12/2020

Puppet Certified Professional | Puppet Labs | 01/2019

Experience

IT Consultant | Seda Systems | 03/2009 - Present

- Customers included multiple small businesses.
- Performed majority of work remotely, and traveled to customer sites as needed.
- Administered Ubuntu, Debian, CentOS, Red Hat Enterprise Linux (RHEL), Amazon Linux, VMware ESXi, and Solaris servers.
- Wrote Puppet code to automate server infrastructure.
- Migrated physical/virtual infrastructure to Amazon Web Services (AWS).
- Implemented Multi-factor Authentication (MFA) solutions for Linux SSH and AWS CLI/Console.
- Relied heavily on AWS IAM for tight access control to various AWS services.
- Served as HIPAA Security Officer.
- Assisted Developers with Jenkins Continuous Integration (CI) / Continuous Delivery (CD) pipelines - via DevOps approach.
- Performed Java Virtual Machine (JVM) Monitoring and Tuning, which helped to stabilize mission-critical application.
- Deployed Bareos/Bacula Disk-To-Disk (D2D) and Disk-To-Tape (D2T) backup solutions.
- Contributed scripts to medical data analysis pipeline.
- Administered Git-based Source Code Management (SCM) tools such as GitHub and Trac.
- Operated split-horizon BIND DNS.
- Deployed High Performance Computing (HPC) cluster.
- Managed Juniper/Cisco firewalls/switches.

System Engineer | Deft | 05/2023 – 09/2023

- Customers included internal groups and external organizations.
- Performed all work remotely.

- Administered Ubuntu and CentOS servers.
- Operated as Subject Matter Expert (SME) for 37+ PB Clouidian HyperStore [Object Storage] cluster, which spanned two geographical regions.
- Provided guidance on Linux-specific issues.
- Involved with architectural and purchasing decisions.
- Monitored Clouidian HyperStore environment via LogicMonitor/Grafana.
- Conducted deep-dive research and reporting on various complex issues.
- Led Clouidian/Veeam best-practice compliance efforts.

System Administrator | Red Hat | 03/2021 - 09/2022

- Customers included infrastructure and engineering groups.
- Performed all work remotely.
- Administered RHEL servers.
- Wrote Ansible code to automate infrastructure.
- Operated as SME for 3+ PB Red Hat Ceph Storage (RHCS) cluster - within pro-DevOps business unit.
- Led migration of RHCS S3 service from one pair of F5 Load Balancers to another.
- Managed bare-metal and virtualized RHCS clusters.
- Adopted shift-left approach to satisfying internal security standards.
- Administered 1+ PB Infinidat InfiniBox storage appliance.
- Involved with architectural and purchasing decisions.
- Monitored RHCS environment with Prometheus/Grafana.
- Provisioned servers via Red Hat Satellite.
- Managed DNS/DHCP entries in Infoblox.
- Conducted deep-dive analysis, which resulted in data-driven decisions and proper issue resolution.
- Promoted internal standards development and adoption.
- Followed strict change control process.
- Leveraged DevOps pipelines to modify assets such as documentation and dashboards.
- Wrote mission-critical Python script to query APIs of multiple internal Red Hat Satellite instances, which provided easily-consumable summary of server/network inventory that spanned multiple geographic regions.
- Attached all RHEL machines in our purview to internal Red Hat Identity Management (IdM) service - to maintain corporate security compliance.
- Acted as team liaison to Networking and Security departments.
- Maintained various configurations via YAML.
- Utilized read-only access to Juniper switches - for network troubleshooting.

System Administrator | Stanford University | 03/2011 - 07/2012, 12/2012 - 12/2013, 11/2018 - 08/2020

- Customers included research groups.
- Performed majority of work remotely, and traveled to data centers as needed.
- Administered CentOS, RHEL, and VMware ESXi servers.
- Supported 200+ physical/virtual machines.
- Managed ~500 TB of NetApp, Dell, HP, Fujitsu, and Pivot3 storage.
- Authored Puppet code, which was deployed via R10K.
- Scripted in Python and Bash.
- Deployed Cobbler for OS Provisioning.
- Deployed Bacula Disk-To-Tape (D2T) backup solution.
- Administered multiple VMware vSphere clusters.
- Deployed Apache web cluster involving F5 Load Balancers.
- Deployed MySQL database cluster involving MySQL replication.

- Administered Git-based SCM tools such as GitLab and GForge.
- Performed Vulnerability Scanning via Qualys, and resolved issues to maintain Information Security Office (ISO) compliance.
- Maintained various configurations via YAML.
- Supported multiple HPC clusters.
- Managed Brocade/HP LAN/SAN switches.

System Administrator | University of North Carolina - Chapel Hill | 02/2005 - 11/2009

- Customers included enterprise and research groups.
 - Administered RHEL and Solaris servers.
 - Supported 100+ physical machines.
 - Administered Apache web cluster involving F5 Load Balancers, which hosted 300+ campus-wide websites.
 - Utilized Puppet to manage various system/application configurations.
 - Managed NetApp storage appliance.
 - Performed JVM Monitoring and Tuning, which helped to stabilize multiple mission-critical applications.
 - Supported 10 servers responsible for medical data analysis.
 - Migrated from siloed Direct-attached Storage (DAS) to centrally-managed SAN and Network-attached Storage (NAS).
 - Deployed Bacula Disk-To-Disk-To-Tape (D2D2T) backup solution.
 - Migrated 300+ local users across multiple siloed machines to centrally-managed solution involving LDAP/NFS.
 - Implemented multi-department file-sharing solutions involving Samba/SFTP.
 - Maintained HIPAA-compliant computing environment.
 - Operated private BIND DNS service.
 - Supported HPC cluster.
 - Managed QLogic/Extreme LAN/SAN switches.
-

Education

Certificate in Advanced Cybersecurity | Stanford University | 10/2020

Certificate in Python Programming | Wake Technical Community College | 05/2018

Certificate in Linux Administration | Wake Technical Community College | 05/2005

Bachelor of Science in Biochemistry | North Carolina State University | 05/2003