

Mariusz Czyz

Summary

Linux systems engineer with 15 years of experience with CentOS & RHEL Linux physical, virtual, and cloud based servers. 6 years of experience in automated server deployment and configuration orchestration with Ansible in hybrid, multi-location, highly available environments. Hands-on experience in data center operations.

Work History

Linux Systems Engineer - 10/2012 to Present - Chicago, IL

- Works as a Linux systems engineer in Operations team with a primary focus in orchestrated server provisioning, maintenance, and configuration with Ansible in a hybrid, multi-location environment.
- Maintains a mix of 600 bare metal, virtual, and cloud (AWS) CentOS Linux servers.
- Maintains, improves, and expands an Ansible server provisioning code repository consisting of over 70 roles via an open source GitHub workflow.
- Built and maintains a central, internal CentOS and custom built packages RPM repository.
- Provisions, upgrades, and troubleshoots variety of Dell physical servers.
- Has a hands-on and remote data center operations experience in installations and troubleshooting focused on security and high availability.
- Performed provisioning and provides ongoing maintenance of VMWare vSphere & VMWare ESXi 6.X virtualization of production and non-production clusters.
- Responsible for ongoing OS and software stack updates across all environments.
- Supports application development teams.
- Manages end user accounts, permissions, and access rights in accordance with best-practices regarding privacy, security, and PCI regulatory compliance.
- Works with developer teams to implement changes to applications in a development, test, and production environments.
- Communicates technical information to non-technical users, both orally and written through RFOs (Reason For Outage), RCAs (Root Cause Analysis), code documentation, team design review sessions, and operational procedures documentation.

- Maintains up-to-date inventory of all infrastructure assets.
- Collaborates with other team members on critical infrastructure improvement and redesign projects.
- Coordinates equipment servicing and repairs with outside vendors.
- Performs scheduled nightly high risk infrastructure maintenance tasks to minimize customer impact.
- Writes and maintains Bash and Ansible maintenance and automation scripts.
- Performs peer code reviews and contributes code fixes to various projects as needed.
- Develops, updates, and maintains standard operating procedures documentation.
- Performs servers' configuration management with Kickstart and Ansible.
- Analyzes servers, network, and storage performance.
- Hands on experience in administration and maintenance of application services like Bind DNS, Apache, HAPEE (Haproxy), DHCP, SMTP, FTP, IMAP, NFS, Samba.
- Participates in regular 24 hours 7 day on-call duty rotation.
- Successful planning and completion of large critical production infrastructure projects and upgrades:
 - Puppet to Ansible migration of servers provisioning code
 - Hardware to virtual environment servers migration
 - Expanding operations to AWS for applications requiring hybrid environments
 - Data center physical servers cage migration with minimal downtime
 - CentOS 5 to CentOS 7 upgrade across all critical production systems
 - Multiple PHP version upgrades (Zend PHP 5 to PHP 5.6 to PHP 7.2)
 - Standardizing hardware platform from many to one vendor
 - VMWare on-premise virtual cluster build out
 - PCI compliance remediation work and security hardening across all production infrastructure servers

Linux Systems Administrator - 06/2006 to 10/2012 - Chicago, IL

- Installs, maintains, configures, troubleshoots, and secures an infrastructure of 100 servers with 60+ Red Hat Enterprise Linux systems in physical and virtual

environments.

- Performs hardware and firmware server updates as needed.
- Updates and migrates outdated RHEL systems to up-to-date versions in physical and virtual environments.
- Provides technical expertise and research for multi-department web facing technologies and projects with heavy emphasis on the Linux Apache MySQL PHP stack.
- Works on day-to-day tasks involving system user and alias setups, account maintenance as well as other unforeseeable technical issues.
- Acts as a liaison between outside vendors and internal team in resolving hardware and software technical issues and emergencies.
- Performs data backup and restore procedures as per needed basis.
- Writes and maintains system, project, troubleshooting, and common IT practices and procedures documentation.
- Develops and improves system automation scripts in Bash scripting language.
- Plans, develops, and maintains complex software projects utilizing numerous open source tools and components.
- As required, performs IT duties outside of business hours to minimize user impact due to system downtime.
- Analyzes daily system reports and addresses any issues found.