**Joshua Price-Mahdi**

**Summary**

* 7+ years of experience working in the Information Technology Environment, Experienced in the design and implementation of Continuous Integration, Continuous Delivery, Continuous Deployment and Cloud Management, and Administration of Red Hat Enterprise Linux, and CentOS.
* Experienced in all phases of the software development life cycle (SDLC) and have an in-depth understanding of the principles and best practices of software conﬁguration management (SCM) in Agile, Scrum, and Waterfall methodologies.
* Experience in Designing, Architecting, and implementing scalable cloud-based web applications using AWS.
* Experience with developing containerization and clustering technologies like Docker and Kubernetes
* Proficient across multiple Linux distributions, specializing in virtualization technologies, and Hands-on in navigating VMware and cloud computing platforms like AWS.
* Strong understanding of modern, cloud architectures and DevOps principles.
* Expertise in setting up (CI/CD) Continuous integration and Deployment Pipelines for J2EE, NodeJS, C++, and Python applications as well as Docker Containers using tools such as Jenkins, Anthill pro, Team City, and Bamboo.
* Maintaining and troubleshooting network connectivity, firewall and DNS hostnames resolution.
* Good experience in provisioning environments using Chef, and Puppet
* Have worked closely with project management and development teams, ensuring comprehensive testing through automation and manual tests.
* Conﬁguration management tools.
* Experience and knowledge in Amazon Cloud Services and its features AWS EC2, VPC, EBS, Auto scaling, Cloud Formation, RDS, CloudWatch and S3 DynamoDBAbility to handle operations and maintenance support for AWS cloud resources which includes launching, maintaining, and troubleshooting EC2 instances, S3 buckets, Virtual Private Clouds Elastic Load Balancers.
* Experience configuring Firewall and security using SSL, IPchains, IPtables, TCP Wrappers, Tripwire, and port scanners.
* Experience in branching, tagging, and maintaining the version across the environments working on Software Conﬁguration Management (SCM) tools like Subversion (SVN) and GitHub.
* Experience in conﬁguring Kubernetes clusters, deploying applications/services, and maintenance.
* Experience in Linux/Unix System Administration, Network Administration, and Application Support working on Red Hat Linux.
* Used Chef for conﬁguration management of hosted Instances within AWS. Conﬁguring and Networking of VirtualPrivate Cloud (VPC).
* Extensive experience in using MAVEN, and ANT build tools for building deployable artifacts from source code.
* Experienced in managing multiple environments like DEV, QA, UAT, and PROD for various releases and designed instance strategies.
* Experience in implementing Kubernetes to deploy scale, load balance, scale and
* Manage Docker containers with multiple names spaced versions.
* Experience in troubleshooting and automated deployment to web and application servers like Web Logic, and Apache Tomcat.
* Experienced in writing Chef Recipes to automate build/deployment pr
* Experience in Building end-to-end CI/CD Pipelines in Jenkins to retrieve code, compile applications, perform tests, and push build artifacts to Nexus.
* Ability to build deployment, build scripts, and automated solutions using Shell scripting.
* Strong exposure in utilizing Jenkins and Bamboo as the CI/CD tool and building the code integration, code delivery, and release pipelines.
* Experience working on several Docker components like Docker Engine, Hub, Machine creating Docker images, Compose, Docker Registry, and handling multiple images primarily for middleware installations and domain conﬁgurations.
* Experience in using Artifactory, and Nexus Repository Managers for Maven builds strong knowledge of monitoring and logging tools Splunk and Nagios, for monitoring network services and host resources.
* Experience in scheduling the Linux Cron jobs and Jenkins jobs for build automation
* Strong ability to troubleshoot any issues generated while building, deploying, and in production support
* Experience installing, conﬁguring, administrating, troubleshooting, tuning, security, backup/recovery, and upgrading Linux Red Hat in large environments
* Experience in performing upgrades of Packages and Patches in Windows, Solaris, and Linux.
* Strong analytical skills and broad-based technical acumen

**Experience**

** Linux System Engineer**

**Transdev**

**Oct 2019 - April 2023**

* Used C++ to develop the core of my system, including the operating system kernel, while most operating system kernels are traditionally written in cloud load balanced, Cloud platform (AWS) services like compute engine, cloud storage, cloud SQL, stack driver monitoring, and cloud deployment manager.
* Creating and managing multiple Instances of Apache
* Tomcat and deploying several applications in those instances in the QA environment
* Worked on cloud platforms i.e. PCF, AWS, DigitalOcean, IBM Soft layer, and Amazon
* Created AWS S3 buckets, performed folder management in each bucket, and Managed cloud trail logs and objects within each bucket
* Set up, configure and trouble shoot TCP/IP, DHCP, Default Gateway, FTP, Firewall SSH, Iptables, UDP, NFS in a Linux Servers.
* Having proficiency to work within and across Agile teams to design, test, implement and support technical solutions.
* Wrote infrastructure as a code (IaC) in Terraform, Azure resource management, and AWS Cloud formation. Created reusable Terraform modules in both Azure and AWS cloud environments
* Developed a stream ﬁltering system using Spark streaming on Apache KaŌa
* Responsible for Installing, setup and Conﬁguring Apache KaŌa and Apache Zookeeper
* Created WebSphere/Tomcat Application Server Clustered Environments and handling Load Balancing for QA, UAT, and Production
* Maintain, upgrade, and implement improvements to the VMWare ESXi infrastructure.
* Wrote Cloud Formation Templates(CFT) for AWS infrastructure acts as a code using Terraform to build staging and production environments
* Collaborating with other IT teams to support and troubleshoot virtualization-related issues and incidents.
* Maintained the user accounts (IAM), Cloud SQL, Cloud DNS, VPC, RDB, Cloud Data Store

** Linux System Engineer**

**eTech**

**Apr 2017 - Aug 2019 (2 years 5 months) Built and Released Engineer/DevOps**

* Imported and managed multiple corporate applications into Git
* Analyzed the Maven Build projects for conversion
* Managed Maven project dependencies by creating parent-child relationships between projects
* Conﬁgured, Installed, and Administered the Jenkins Continuous Integration servers.
* Created end-to-end build automation and CI setup for button click push deployment.
* Created new build jobs, Integration testing jobs, and deployed jobs in Jenkins to automate the process
* Implemented and maintained the branching and build/release strategies utilizing Git in Linux environments
* Developed proof of concept implementations of distributed frameworks using Docker
* Stored and updated pre-conﬁgured VM images, applications, and tools in Docker to reduce downtime and maintain high availability
* Implemented, configured tested the following: SW/HW firewalls, POP point of presence , Sun Solaris/AIX/ RedHat Linux/FreeBSD servers, Cisco 1005/2500/4000/4800 routers, NIS/NIS , DNS, PAM, TCP/IP routing
* Managed Chef-Client nodes and uploaded Cookbooks to Chef-Server from the workstation.
* Developed and maintained Chef Libraries utilized in the Automation and Orchestration
* Involved in developing POC to set up the Hadoop cluster and automate the built environment.
* Installed and Conﬁgured Apache Tomcat application servers for Dev and Integration Test Environments
* Worked in Agile Project management Process
* Automated build and deployment process using shell scripting.
* Built and Deployed Java/J2EE to Tomcat Application servers in an agile continuous integration process and automated the whole process
* Developed, maintained, and distributed release notes for each scheduled release
* Worked with JIRA for Issue Tracking and monitoring
* Worked with the Architects on the SDLC process as the post-development environment owner
* Implemented Chef Recipes for Deployment on build on internalData Centre Servers.
* Evaluated testing of Chef Recipes - Concept of Test Driven Development for Infrastructure as a Code
* Implemented Chef Cookbooks for OS component conﬁguration to keep the AWS server's template minimal
* Wrote Chef Cookbooks for various DB conﬁgurations to modularize and optimize end
* product conﬁguration
* Utilized Ansible to orchestrate software updates and verify functionality
* Used Ansible to document all infrastructures into version control
* Archived and stored periodically the source code for disaster recovery
* Configuring VLAN, vMotion and VLAN Switches and Coordinated server and application downtimes with the customers and other teams during migrations. Plan and design clusters and Data Center
* Prepared JUnit test cases and executed server conﬁgurations
* Wrote Ansible Playbooks with SSH as the Wrapper to Manage Conﬁgurations of AWS Nodes and Test Playbooks on AWS cloud instances using Shell and PowerShell
* Supported and developed tools for integration, automated testing, and release management
* Installed, upgraded, and conﬁgured RHEL, Ubuntu, and Solaris.
* Build, configured, and deployed IBM AIX Servers, and Red Hat Linux virtual servers in a VMware vCenter environment.
* Deployed and conﬁgured Chef Server and Chef Solo including bootstrapping of chef-client nodes for provisioning
* Monitored creating and managing user accounts, security, Access Control lists, permissions, disk space, and process monitoring in
* Installed and conﬁgured Apache and supported them on Linux production servers
* Performed software package installation, upgrades, and updates using Yum and rpm commands
* Automated server building using Kickstarting RHEL and Jumpstarting Sun Solaris
* Managed User Administration - Creating users and groups, modifying, and deleting user
* Managed permissions and accounts environment: Docker, Chef, Ansible, SVN, ANT, Git, Node JS, Jenkins, MAVEN, Tomcat, ShellScripts, XML, Windows, JIRA, Java, RHEL

**** **System Engineer**

**Ziyotek institute of Technology Vienna, Virginia**

**Apr 2016 - Aug 2019** ·

* Core Engineering Concepts: System Engineering programs often start with foundational engineering courses that provide a broad understanding of engineering principles. These courses covered subjects such as mathematics, physics, computer science, and basic engineering principles
* System Engineering Fundamentals: learned the fundamental concepts and methodologies of system engineering. This included understanding system development life cycles, system requirements analysis, system modeling and simulation, system integration, testing and validation, and system maintenance
* Systems Thinking: System Engineering emphasizes a holistic and interdisciplinary approach to problem-solving.
* Learned how to analyze complex systems, identify interdependencies, and understand the impact of changes in one component on the entire system
* System Design and Architecture: Courses in system design and architecture focus on designing eﬃcient and reliable systems that meet speciﬁc requirements. This involved understanding different system architectures, component selection, system optimization, and trade-off analysis
* Risk Management: needed to assess and mitigate risks associated with system development and operation.
* Learned techniques for identifying, analyzing, and managing risks throughout the system life cycle
* Project Management: included project management courses to develop skills in planning, organizing, and controlling projects. This also included topics such as project scheduling, budgeting, resource allocation, and team management
* Proficiency with virtualization technologies (VMware)
* Systems Integration and Veriﬁcation: Learned techniques for integrating individual system components and verifying that the system meets the speciﬁed requirements. This involved system testing, validation, and quality assurance
* Elective Specializations: Allow me to focus on speciﬁc areas of system engineering, such as software engineering, control systems, network systems, or aerospace systems

**Education**

**** ZiyoTek Institute of Technology

Associate's Degree, Computer Programming, Specific Applications

**Licenses & Certifications**

 **CompTIA A+** - Pearson VUE

Issued Feb 2022 - Expires Feb 2025

**Skills**

• account management • accredited project manager • active directory • agile • oracle • anti-virus apache webserver • approach • asset management