**AMULYA M**

**AWS/DevOps Engineer**

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PROFESSIONAL SUMMARY:

* Around 8 Years of experience in IT industry as DevOps/ Agile operations, Linux Administrator, Software Configuration Management/ Release Management Specialist and Cloud Management.
* Experience in **Linux Administration** **(Installation, Configuration, Tuning and Upgrades of Linux Red Hat and Oracle).**
* Experienced in all phases of the **software development life cycle (SDLC**) with specific focus on the build and release of quality software. Experienced in Waterfall, Agile/Scrum, Lean and most recently **Continuous Integration (CI) and Continu**ous Deployment (CD) practices.
* Excellent skills in **Unix Shell/Perl/Python scripting and good C/Java programming** experiences.
* **Lead** and manage the release readiness reviews, milestones, and the business Go/No-Go Activities including the execution of the deployment plans and checklists
* Involve in implementing configuration management tools such as **Puppet**.
* Demonstrated ability in installation, configuration and management **of provision tools chef, Puppet and Ansible.**
* Involved in migrating physical Linux & Windows servers to **cloud (AWS)** and **testing**.
* In-depth knowledge on containerization and clustering technologies like **Docker and Kubernetes.**
* Knowledge and expertise on all aspects of Chef concepts like chef server, workstations, Nodes, chef clients and various components like supermarket , kitchen.
* Skilled in managing all aspects of the **software** **configuration** **management** process including code compilation/packaging /testing/ deployment methodology, and application configurations.
* Experience in Puppet Master and Client installation and configuration.
* Experience in developing modules (blueprints) for installation, configuration and continuous integration (CI) using combination of **puppet master, GIT, Vagrant and Jenkins**.
* Expertise in querying **RDBMS** such as **Oracle** and **MY SQL** by using **SQL** for Integrations and Back Ups.
* Managed multiple **AWS** accounts with multiple VPC's for both production and non-prod where primary objectives included automation, build out, integration and **cost control.**
* Implemented multi-tier application provisioning in AWS, **Openstack cloud** and integrating it with **Chef/Puppet**.
* Deploy architecture on **AWS** cloud for Lamp Stack application.
* Strong knowledge in backup, migration, disaster recovers, querying **NoSQL** such as **MongoDB** and **DynamoDB**.
* Extensive experience in using **Groovy,** **Maven** and **ANT** as a Build Tool for the building of deployable artifacts (war & ear) from source code.
* Extensively worked on **Bamboo, Jenkins, and Teamcity** **Enterprise’s** for continuous integration and for End-to-End automation for all build and deployments across multiple data centers and cloud based.
* Used **Jenkins/Teamcity** **Enterprise** CI: distributed **build** that supports all of the environments to run the build, promotions and deployment.
* Managed **DEV**, **INT, UAT**, **PRE-PROD** and **PROD** environments for releases and designed instance strategies.
* Experienced in source controller tools: **Subversion (SVN), CVS and GitHub Enterprise.**
* Experienced in **bug-tracking systems** like JIRA, You Track, Bugzilla, Confluence and Red mine.
* Expertize in **IBM UrbanCode** for building, promote, and production environment deployments.
* Proficient in development and execution of **JSON, Shell, Bash, Ruby, PowerShell and Python Scripts**.
* Experience using and/or developing on a **Unix/Linux** platform.

**DevOps & Cloud Skills:**

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| --- | --- |
| **CI/CD** | Jenkins, VSTS, GitHub/Bitbucket, Maven, SonarQube, Bamboo, ANT, JIRA. |
| **Cloud Platforms**  | Amazon Web services, Azure, GCP |
| **Microservices** | Docker, Kubernetes, AWS ECS |
| **Logging and Alerting** | ELK, Splunk, Cloud Watch, SNS |
| **Distributed Messaging Platform** | KAFKA |
| **Infrastructure Automation** | Ansible, Terraform, Chef |
| **Test Automation** | Junit, Nunit, Selenium |
| **Application Servers** | Apache Tomcat, JBOSS, Web Logic, Web Sphere, |
| **Web Servers** | Nginx, Apache HTTP |
| **Operating Systems** | Windows, Linux, CentOS, Ubuntu, |
| **Databases** | Oracle 10g/11g/12c, Mongo DB, MySQL |
| **Scripting** | Python, Shell, PowerShell, Ruby, JavaScript |

**PROFESSIONAL EXPERIENCE:**

**Client:** USAA **, San Antonio, TX OCT 2019 – TILL DATE**

**Role: DevOps /AWS Engineer**

**Responsibilities:**

* Worked with an agile development team to deliver an end to end continuous integration/continuous delivery product in an open source environment using **Puppet** and **Jenkins** to get the job done.
* Automated the infrastructure in **Google Cloud**by using Deployment Manager templates for various services in **GCP.**
* Used the continuous Integration tools such as **Jenkins** and Hudson for automating the build processes.
* Configured and used **ELK Stack** for log management.
* Used **Elastic search** as a open source search engine.
* **Lead** the innovation DevOps with initiatives on the road map for productivity and delivery.
* **Architecture** improvements or changes on build pipelines for efficient, quality and high availability.
* **Continuous Integration** process for builds, packaging, testing, and promoting artifacts and deployments.
* Worked with installing, configuring and monitoring Apache Cassandra cluster
* Design of Cloud architectures for customers looking to migrate or develop new **PaaS, IaaS, or hybrid solutions utilizing Microsoft Azure or Amazon Web Services (AWS).**
* Implemented **CI and CD** for database using Jenkins and UDeploy.
* Troubleshooting read/write latency and timeout issues in Cassandra
* Conceived, Designed, Installed and Implemented **CI/ CD automation system.**
* Created and updated Bash scripts and modules, files, and packages.
* Responsible for **Continuous Integration (CI) and Continuous Delivery (CD)** process implementation using Jenkins along with Shell scripts to automate routine jobs.
* Implemented auto environment creation using **Puppet** and **AWS**.
* Manage source control repository in **Subversion**- controlling and monitoring check-in's & create tags for builds.
* Automated setting up server infrastructure for the DevOps services, using **Puppet/Ansible**, shell and **python scripts**.
* Extensively worked with version control systems like **GIT, CVS**, Perforce version, Subversion control systems.
* Developed **Python** career path through professional development while working on Python projects.
* Monitoring using **Ansible** playbooks and has integrated **Ansible** with **Rundeck** and Jenkins.
* Worked on creation of **Puppet** manifest files to install tomcat instances and to manage configuration files for multiple applications.
* Involved in analysis phase (Identity 2 and 3 tier pattern based on existing infra), writing **Puppet** scripts.
* Completely responsible for automated infrastructure provisioning (Windows and Linux) using **Puppet** Scripts.
* Design & Implement sharding and indexing strategies for MongoDB
* Responsible for automated deployment of java application in Tomcat Server using **Puppet** scripts.
* Responsible for automated identification of application server and database server using **Puppet** scripts.
* Design & Implement sharding and indexing strategies for MongoDB
* Built a new CI pipeline. Testing and deployment automation with **Docker, Jenkins** and **Puppet**.
* Used **MAVEN** as build tools on Java projects for the development of build artifacts on the source code.
* Develop/capture/document architectural best practices for building systems on AWS.
* Maintained **JIRA** for tracking and updating project defects and tasks ensuring the successful completion of tasks in sprint.
* Working with technical and non-technical teams across **Amazon (AWS).**

**Environment:** Puppet, Paas, GIT, GitHub, Subversion,Python, Shell Script, SOA, PowerShell, Linux, ANT/Maven, JUnit, Jenkins, ELK Stack, Ansible, Hudson, Artifactory, UDeploy, Agile, JIRA, RHEL, AWS, Nexus, Sonar, Tomcat, Bash Scripting, Groovy, Perl Scripting, Oracle, Openstack, Java, J2EE Applications, Spring*.*

**Client: Microsoft , Los Angeles, CA JAN 2018 – SEP 2019**

**Role: Devops Engineer**

**Responsibilities:**

* Responsible for implementing and maintaining the branching and Build/Release strategies using subversion.
* Worked on several build automation tools like ANT, Maven and Build Forge.
* Involved in troubleshooting the problems that are created while building and deployment.
* Developed the Python script using Visual studio code and worked under Agile Environment.
* Worked on database automation version for MySQL and OracleDB.
* Worked on installing and configuring the routing type and route in web servers.
* Managed and optimized the continuous delivery tools like Jenkins.
* Experience of doing Cassandra upgrades to Major & latest versions.
* Worked on creating Virtual Machines and managing it on windows OS and building communication using Virtual Machine Migration from different hosts.
* Maintained the migration logs for every release and data accuracy and planned the next release schedules accordingly.
* Used ApacheTomcat as application server for deploying artifacts.
* Worked on script to rebalance kafka topics in an automated fashion using ruby and Kafka binaries.
* Worked on automating the build process using GIT, ANT and Subversion.
* Worked with Apache, HTTP, Ngnix server including proxy and caching configurations.
* Experience in creating in Chef Architecture by using workstations, nodes and servers.
* Worked on various application servers like Tomcat/WebSphereApplicationServers.
* Setup and administration of JIRA with required scripting and customizations.
* Implemented high availability using portal, PowerShell on Azure Resource manager Deployment models.
* Responsible for coordinating the project from development to production and communicating with the developers and testers and Data Base team for successful release.

**Environment:** AWS, ANT, Maven, Subversion, HTML, MySQL, Cassandra, Kafka, Oracle DB, Ngnix, Tomcat, Splunk, GIT, SVN.

**Client: ValueLabs ,Atlanta, GA. APRIL 2016 – DEC 2017**

**Role: Devops/ AWS Engineer**

**Responsibilities:**

* UNIX System Administration. Fine tuning, Kernel debugging, process scheduling, disk and file system I/O, kernel internals, TCP/IP communications.
* Installing, configuring and administering NIS master server and NIS slave server.
* Experience in implementing High Availability Clusters using Veritas Clustering, HP Service Guard, and Redhat Cluster Server.
* Worked on registering different client servers to master RedHat Satellite Server.
* Experience in providing day-to-day user administration like adding/deleting users and managing user’s queries and maintained Server using Cfengine.
* Worked with and assisted customers with setting proper Priority/Severity of problems, work problems to resolution, recorded/documented actions in databases as well as utilized tools and resources.
* Administer the Network issues and Resolving Operating Systems related issues of AIX, Linux and making sure that the users get the proper environment for testing.
* Plan and implement assigned projects, change management, on-call support, and hotline bridge participation.
* Creating Database users, roles, profiles, alert logs/ trace logs on Oracle Database application boxes and worked on RAC.
* Configuring and troubleshooting SAMBA server in Linux.

**Environment:** RedHat, Linux, Solaris, Veritas Volume Manager 4.1, Veritas Cluster Server 4.1, Veritas NetBackup 5, BMC Patrol for Unix, Apache 2.2.x, Sun Java System Web Server 6.x, 7, WebLogic.

**Client: Aris Global Hyderabad JUN 2012 – SEP 2015**

**Role: DevOps Engineer**

**Responsibilities:**

* Involved in setting up **Jira** as defect tracking system and configured various workflows, customizations and plug-ins for the Jira bug/issue tracker.
* Wrote and maintained various **Ansible** modules for the upstream Ansible repository.
* Integrated **Maven** with Perforce to manage and deploy project related tags.
* Installed and administered **Tomcat** repository to deploy the artifacts generated by **Maven** and to store the dependent jars which are used during the build.
* Mentor Business Areas on **Subversion Branching**, Merging strategies concepts.
* Resolved update, merge and password authentication issues in **Jenkins** and **Jira.**
* Involved in implementing Tool Suite (Jira, Jenkins).
* Setting up continuous integration and formal builds using Jenkins with Maven and Tomcat repository.
* Built Openstack based infrastructure for **Database as a service(DBaaS**) and **Load Balancer as a service(LBaaS).**
* Installed and configured Confluence as the enterprise wiki to document development and change management procedures.
* Maintained custom **PowerShell scripts** that interact with Office 365, Active Directory, SQL, and VMware.
* Involved partially in deploying **WARs/EARs** (backend) through **Weblogic Application Server console**.
* Performed setup of clustered environment with Weblogic Application Server.
* Used **Shell script** to configure the Weblogic application server in all the environments
* Support Lead developers with Configuration Management issues.
* Worked for Creating the Software Configuration Management Plan.
* Managed all the bugs and changes into a production environment using the **Jira** tracking tool

**Environment:** Java, Maven, Openstack, Ansible, Jenkins, Jira, Jenkins, Linux, Weblogic, Subversion, Shell scripting.

**Client: Bytrix Solutions Chennai, INDIA FEB 2012 – MAY 2012**

**Role: Java Engineer**

**Responsibilities:**

* Involved in various phases of Software Development Life Cycle (SDLC) of the application like Requirement gathering, Design, Analysis and Code development.
* Followed **SDLC-Agile/Scrum** methodology in the application development.
* Developed an ability to display dynamic data on website homepage.
* Accomplished end to end user testing and production release for circular subscription module.
* Developed a module to allow users to register, deregister & modify their subscription.
* Implemented a new password policy for trade verification & MyNse modules.
* Redesigned the website based on the security findings of security team.
* Involved in Analysis, Design, and Implementation of software applications using Java, J2EE, XML and XSLT and Web Services (SOAP, WSDL).
* Developed Façade classes to encapsulate the business logic and hide the implementation details of the data access classes and EJBs.
* Involved in Java Multithreading to cascade multiple changes on multiple records in only one transaction and developed a batch process framework.
* Involved in creating and Deployment of REST API and Micro Services in Java J2EEE using Spring Boot.
* Integrated Spring DAO for data access using Hibernate, used HQL and SQL for querying databases.
* Developed User Interface having animations and effects using JSF, JavaScript and HTML.
* Developed Core Java classes and methods for handling data from databases.
* Developed the presentation layer using JSP, HTML and client side validations using JavaScript.
* Apache Camel is used for routing.
* Used Hibernate to store the persistence data into the Oracle database and wrote HQL to access the data from the database.
* Involved in coding, code reviews, Junit testing, Prepared and executed Unit Test Cases.
* Used Log4j for External Configuration Files and debugging.
* Designed various tables required for the project in Oracle 11g database and used the Stored Procedures in the application.

**Environment:** J2EE, JSP, Java, spring, Servlets, JMS, Hibernate, MVC, DAO, Eclipse, HTML, DHTML, CSS, AJAX, XML, Junit, EJB, Multi-Threading, WebLogic, SOAP, GIT, SQL, Oracle and Windows.