**Mehul R**

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**Cloud Engineer/SR. DevOps Automation Engineer**

Configuration Engineer● Build & Release Engineer● Release Engineer

**Professional Summary:**

Around **9 Years** of experience in IT industry as a Build/Release/Deployment/Operations (**DevOps**) Engineer, **AWS** with good understanding of the principles and best practices of **SCM** in **Agile**, **Scrum methodologies** **Specialist in Cloud Management**.

* Expertise in configuration Management tools like **Continuous Integration (CI) and Continuous Deployment (CD) practices. with Jenkins.**
* Experience with various teams like **Dev, QA and Production Operations.**
* Exposed to all aspects of the **Software development life cycle** **(SDLC)** such as Analysis, Planning, Developing, and Testing, and Implementing, Post-production analysis of the projects.
* Involved in building database Model, APIs and Views utilizing **Python**, in order to build an interactive web based solution.
* Creating test environments using **Docker** for building/testing an application.
* Experienced in Cloud automation using **AWS Cloud Formation** templates.
* Implemented **Team Foundation Server (TFS)** as Version Management system for Microsoft Technologies.
* Strong Hands on experience on **Cloud Environment (Azure)**
* Maintaining **Continuous Integration, Continuous Delivery** and **Continuous Deployment** in multiple environments like **(DEV/TEST/STAGE & PROD).**
* Actively worked on **Docker** and deploying and maintaining **Micro services** in Dev & QA environment.
* Experience in creating branches and managed the source code for various applications in **GIT.**
* Exposure to **Mesos, Marathon & Zookeeper** cluster environment for application deployments & **Docker** containers.
* Strong proficiency in supporting Production **Cloud environments (OpenStack, AWS, Azure, and VMWare)** as well as traditional managed hosted environments.
* Managing applications on a local computer, managing applications remotely, management tasks for disks and volumes, file and folder management, managing network printers, managing servers remotely, managing services, monitoring network traffic, monitoring security-related events, monitoring server performance, resetting user passwords, safeguarding system, scheduling tasks, setting up DNS, setting up TCP/IP, setting user and group security, installing Active Directory Server, installing **Apache Tomcat.**
* Worked on the installation and configuration of the monitoring tools like **Splunk, Nagios**.
* Extensively used build utilities like **MAVEN, ANT** for building of jar, war and ear files.
* Basic experience in writing **Ansible** playbooks using. yml files
* Excellent knowledge on the ability of developing XML, HTML.
* Good experience on DevOps tools such as Vagr**ant**, Oracle Virtual Box, **Jenkins**, **MAVEN**, **ANT, IBM uDeploy**, **CVS, SVN, GIT, Gerrit, SonarQube, Docker, Docker**-compose
* Ability to write scripts in **Python** scripting languages.
* Experience with IBM Rational Suite as an Administrator of the suite on a Linux environment.
* Experienced in build tools such as **Apache ANT, MAVEN**.
* Experience with migration to **Amazon web Services AWS from Datacenter.**

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Build Tools** | ANT, MAVEN, Gradle |
| **Version Tools** | SVN, GIT, TFS, GITHUB |
| **CI Tools** | JENKINS, Hudson |
| **Web technologies** | HTML, XML |
| **CM Tools** | Puppet, Chef, Ansible, Docker |
| **Languages** | Phyton |
| **Database** | MySQL, IBM DB2 |
| **SDLC** | Agile, Scrum Waterfall Methodologies. |
| **Operating Systems** | Windows server 2000/2003/2007/2008/XP, LINUX (RHEL 4/5/6/7), UNIX (11.0,11.11,11.23), CentOS, Aix |
| **Bug Tracking** | JIRA, Bugzilla, HP quality center |
| **Web/App servers** | Web logic, Web Sphere, Apache Tomcat, RHEL, JBOSS. |
| **Repository Management Tools** | Nexus, Artifactory |

**Client: General Electric, Melbourne, FL March 2022 -Present**

**Role: DevOps Cloud Automation Engineer**

**Responsibilities:**

* Managing a team of DevOps engineer for infrastructure support on AWS cloud. Creating cloudformation scripts for hosting software on AWS cloud. Automating the installation of softwares through **Phyton** scripts
* Expertise in build and deployment automation using **Vagrant**, VMware ESX, **Docker** containers.
* Implemented and supported monitoring tools like **Nagios, Splunk** on QA and Production servers for Resource, Network and Log Trace Monitoring. Proficient in working with network protocols like TCP/IP, DNS
* Installed and Configured SharePoint Services and Reporting Services with **TFS**
* Experience with creating Areas and Iterations, Creating Teams and administering Security using **TFS.**
* Provisioning **AWS** clouds through automated scripts, PowerShell and AWS CLI.
* Worked on various POC's on different new technologies and upcoming features on **visual studio.**
* Used **Visual Studio Team Services (VSTS)** cloud service for collaborating on code development. It provides an integrated set of features that we accessed through web browser.
* **UNIX kernel optimization**, monitoring system activity, CPU utility, and virtual memory statistics.
* Used **Marathon REST API's** to kick of new deployments of an application using **HTTP PUT** and **REST** services.
* Provided integration points for the products with various **InstallShield** and deployment(Docker) technologies
* Created and managed a **Docker** deployment pipeline for custom application images in the cloud using **Jenkins**.
* Constructed automated solutions utilizing **Jenkins** and **Docker** for continuous integration and continuous deployment to a development environment.
* Experience working on **Docker**, creating **Docker** images and handling multiple images primarily for middleware installations and domain configuration.
* Developed installer scripts using **ANT**, **Python** and UNIX for various products to be hosted on Application Servers. Designed workflow of pipelines.
* Troubleshoot Build and Deploy Issues, with little downtime.
* Organized and Coordinated Product Releases, work closely with product development, QA, Support across global locations to ensure successful releases.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, and custom Ruby/Bash scripts.
* Developed automation framework for Application Deployments to the cloud environments.
* Automated Continuous Build and Deploy Scripts for  **Jenkins** Continuous Integration tool.
* Branching, Tagging, Release Activities on Version Control Tools: **SVN**, **GIT**.
* Virtualized the servers using the **Docker** for the test environments and dev-environment needs.
* Used **Apache Mesos** for cluster management and **Docker**container orchestration by using **MarathonUI** to deploy applications and schedule long running jobs.
* Automated the cloud deployments using Python (boto & fabric) and AWS **Cloud Formation Templates**.
* Implemented CI/CD best practices to automate build and deployment to all environments with Jenkins and **Artifactory**.
* Did research on implementing a new tool, **Kubernetes** with **Docker** to assist with auto-scaling, continuous integration and rolling updates with less or no downtime.
* Used **Kubernetes** to deploy scale, load balance, scale and manage Docker containers with multiple namespace versions.
* Installed **DOCKER Registry** for local upload and download of **DOCKER** images and even from **DOCKER** hub.
* Worked on **DOCKER-Compose** and **DOCKER-Machine**.
* Performed code line **GITHUB** pushes (releases) to production and customer servers and Developed and improved **GIT push scripts.**
* Worked on **EC2, Lambda**, ELB, VPC, Kinesis, **OpsWorks**, SES, SQS, SNS, SWF, RDS,
* Extensive experience working and standing up **Agile/Scrum**  
  environments.
* Designing and developing new back-end services, maintaining and expanding our **AWS** infrastructure, and providing mentorship to others on my team.
* Develop/capture/document architectural best practices for building systems on AWS.
* Working with technical and non-technical teams across **Amazon (AWS).**
* Automated the build and release management process including monitoring changes between releases.
* Configured and implemented **Dynamo DB**, **EC2, EBS, S3**, ELB, RDS MySQL, Route 53 DNS, Glacier, EFS, Cloud Front, **Cloud Watch**, Cloud Trail.

**Environment: Eclipse, Toad, Git, Docker, Mesos/Marathon, VSTS, Tomcat, Apache, U Deploy, Jenkins, Python, Ruby, MAVEN, Artifactory, InstallShield, Windows, Kubernetes, CentOS, Linux, AWS, AWS Cloud Formation Templates, UNIX.**

**Client: Comcast, Philadelphia, PA Oct’ 2020 to Feb’ 2022**

**Sr. DevOps Software Release Management**

**Responsibilities:**

* Developed and supported the Software Release Management and procedures.
* Performed all necessary day-to-day Subversion support for different projects.
* Implemented continuous deployment with **Apache Mesos** and**Marathon** by using **Docker** as a container orchestration for datacenter automation.
* Responsible for design and maintenance of the Subversion Repositories and the access control strategies.
* Created the branches in Subversion to implement the parallel development process to support quarterly releases.
* Merged release branches to the trunk after the production release and resolved the conflicts rose during the merge in Subversion.
* Used **SVN** for branching, tagging, and merging.
* Worked with the Architects on SDLC process being the owner of post development environments.
* Started working **GIT** repository implementation. Designed workflow of pipelines.
* Migrated SQL Server 2008 database to **Windows Azure SQL Database** and updating the Connection Strings based on this.
* Managing Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as custom-built. Designing cloud-hosted solutions.
* Defined branching strategies in **GITHUB** and implementation of best practices.
* Coordinating the resources by working closely with Project Manager's for the release and Project Manager for all the Operational Projects.
* Created scripts in **Python** which integrated with API to control instance operations.
* Wrote **python** scripts to parse XML and JSON reports and load the information in database
* Carried Deployments and builds on various environments using continuous integration tool **Jenkins**.
* Designed the project workflows/pipelines using **Jenkins** as CI tool.
* Wrote **MAVEN** and Gradle Scripts to automate the build process.
* Managed the **MAVEN** Repository using Nexus tool and used the same to share the snapshots and releases of internal projects.
* Installation and implementation of **AppDynamics** on all Prod and Non-Prod environment for monitoring of all java, node.js, php, .Net, python application.
* Implemented various monitoring solutions based on **Keynote** and custom scripts to help improve proactive response to issues related to revenue apps.
* Installed Nexus oss repository tool to maintain the artifacts/dependencies jars.
* Created proxy Nexus repositories to speed up the build process.
* Worked closely with development team and SQA team for product releases.
* Worked as a system administrator for the build and deployments process on the enterprise server.
* Automated Microsoft Security patch installation using Shell scripts.
* Documented project's software release management procedures with input decisions.
* Created runbooks for each application to help the release management team for successful deployments**.**
* Developed, maintained, and distributed release notes for each scheduled release.
* Incorporated the Code Quality Tools Find Bugs and Cobertura into **MAVEN** Projects.
* Installed and Configured **Jenkins** for Continuous Integration
* Used **Jenkins** to perform automated Builds and Deployments.
* Expert in User Management and Plugin Management for **Jenkins**.
* **UNIX kernel optimization**, monitoring system activity, CPU utility, and virtual memory statistics.
* Build, configured and support Application team environments.
* Deployed the applications to Tomcat Application Server and static content to Apache web servers.
* Established processes and tools to maintain code base integrity, including check-in validation rules and branch/merge processes.
* Worked on **Zabbix** monitor tool setup for monitoring our applications and Linux vm's.
* Responsible for maintaining various tools used in the DevOps tool chain (**Microsoft Azure, VisualStudio).**
* Setup **Azure** networks, app-tiers, data-tiers, SQL servers.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with **Azure** Internal Load Balancer.
* Worked on creation of Change requests and Service requests using tool Service Now.

**Environment: Azure, SVN, GITHUB, Mesos /Marathon, MAVEN, Linux, Gradle, Python, U Deploy, Jenkins, Nexus, Tomcat, Apache, Find Bugs, Cobertura, Appdynamics, Keynote Zabbix and Service now.**

**Client: EuraQA, Cherry Hill, NJ Feb’ 2019 to Sep’ 2020**

**Sr. Build and Release Engineer**

**Responsibilities:**

* Performed software configuration/release management activities for three different Java applications.
* Designed and implemented Continuous Integration process using tools like Hudson with approval from development and other affected teams. Defined processes to build and deliver software baselines for internal as well as external customers.
* Converted old builds using MAKE to **ANT** and XML for doing Java build.
* Extensive understanding of Software Development Life Cycle (SDLC) and Project / Program Management within Agile/Lean environments.
* Created and maintained built wrapper scripts using **PERL**.
* Prepared Role based Access group and Control document for the **Pega Workflow** team.
* Build **Jenkins** servers as per the schedule.
* Migrating applications to UNIX and Windows environments by configuring application via IDE Eclipse, Subversion, and **ANT**hillPro.
* Configuring **ANT**hillPro as a common build engine to build and promote applications to DEV, QMG, UAT, PROD, and DR to UNIX environments.
* Working closely with Web Administrators to setup an automated deployment for SharePoint applications using **Ant**hill and **SVN** Tools.
* Maintained and executed build scripts by coordinating with development and QA teams.
* Development of several **Python** APIs that work both in Linux and windows and maintaining them using the revision control GIT.
* Deployed the EAR and WAR archives into WebLogic and Apache Servers.
* Configured and Maintained Apache web servers for Release Management Team's internal use.
* Provided assistance to developers in resolving problems.
* Created and Maintained Subversion repositories, branches and tags.
* Migrating J2EE, PHP, .NET, and Cold Fusion applications to UNIX and Windows environments by configuring application via IDE Eclipse, Subversion, and **Ant**hill.
* Acted as an Integrator for performing merge, rebase and baseline operations.
* Enforced development policies using Subversion hooks and other metadata.
* Deployed **Azure** IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets.
* Migrated moderate workloads from on premise to Azure laaS. Published web services APIs using **Azure** API management service.
* Integrated existing API's to **Azure** API management to get all the attributes like security, usage plans, throttling, analytics, monitoring, and alerts
* Development web service using Windows Communication Foundation and .Net to receive and process XML files and deploy on Cloud Service on Microsoft Azure.
* Turnover documentation monitors status of actual production turnover.

**Environment MYSQL, PHP, ANT, Jenkins, Azure, Web Logic, ClearQuest, ANTHillPro, Subversion, XML, UNIX, VB & Python scripting, MS SharePoint 2010.**

**Client:** **Creehan & company, Canonsburg, PA June 2017 to Dec 2018**

**Release Engineer**

**Responsibilities:**

* Responsible for design and maintenance of the Subversion/**GIT** Repositories, views, and the access control strategies.
* Performed all necessary day-to-day Subversion/**GIT** support for different projects.
* Analyze and resolve compilation and deployment errors related to code development, branching, merging and building of source code.
* Develop and enhance the automated configuration management system.
* Maintain and enhance current build procedures for all software development projects.
* Branching and merging of the code base in CVS.
* Used **ANT**, **MAVEN** to perform daily and weekly Software Builds.
* Installed, administered and configured **Jenkins** Continuous Integration tool.
* Resolving merging issues during build and release by conducting meetings with developers and managers.
* Deployed virtual machines and other instance through openstack to handle different task force.
* Extensive experience working and standing up Agile/Scrum  
  environments, managing cloud environment.
* Responsible for designing and deploying best SCM processes and procedures.
* Maintain build system and automate build process for different applications.
* Extensive understanding of Software Development Life Cycle (SDLC) and Project / Program Management within Agile/Lean environments.
* Solid understanding of Linux shell and **PERL** scripting, UNIX, Windows, build and release engineering principles
* Posting the build on time & following it up the testing team on posted builds until the specified release goes LIVE

**Environment: CVS, ANT, MAVEN, GIT, XML, OpenStack, Subversion, Jenkins, Linux, Apache Web Server.**

**Suntron Systems, Pune, India June 2014 to Nov’ 2015**

**Role: Java Developer**

**Responsibilities:**

* Involved in **SDLC** Analysis, Design and Development as a technical lead and coordinate with team using **Agile Methodologies**
* Participating sprint meetings and having discussions with product owners related to Business requirement and finally allocating sprint requirements to the team members and take some part of development on to my side and do code reviews.
* Developed user access module of different internal and external applications (Presentation layer) using **Struts and Spring Framework**.
* Developed Web modules separately which will access the Web **Service** to complete the related transaction.
* **Used spring** dependency on user access module and data access module.
* Designed screens using **HTML** and field updates and validations**.**
* Used Web Service calls as Host and Home relation between the States (plans) to get claim related information, consolidated billing settlement information and confirmations.
* Used **stored procedures** and **SQL** Statements to get the data from **db2 database** and developed customized tags to render the data on presentation layer dynamically.

**Environment:** JDK1.5, J2EE, struts, Spring1.3.0, JSP, HTML, JavaScript, AJAX, JQuery, Dojo, XML, PL/SQL, Web Services, unit, SVN, Servlets, WINDOWS.