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**Rohit Kumar Thiyari**

**Cloud DevOps Engineer**

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**Professional Summary:**

An AWS Certified Engineer having **8+** years of experience in IT industry, comprising of delivery management, design, development, release & deployment, and cloud implementation using AWS, Azure.

* Good experience on DevOps tools such as Puppet, Chef, Vagrant, VM Ware. Ansible, Jenkins, Maven, ANT, SVN, GIT, and Docker.
* Used Scripting languages like Ruby, Bash and configuration management tools Chef Puppet and web services like AWS**/**Azure.
* Extensively experienced in Bash, Perl, Ruby scripting on Linux.
* Experienced in implementing and administering monitoring tools such as Splunk and Nagios.
* Experienced in Branching, Merging, Tagging, and maintaining the version across the environments using SCM tools like Bitbucket and Git on Linux platforms.
* Used GIT to keep track of all changes in source code.
* Integration, deployment and automation of application servers Tomcat, WebLogic across Linux platforms.
* Experience in Puppet Master and Client installation and configuration.
* Well versed with creation of Puppet Profilesand role modules.
* Deployed webservers on to a Puppet slaves and scripted the class of the modules with ruby DSL.
* Application Deployments and Environment configuration using Puppet, Chef.
* Leveraged Hierato create various re-usable puppet modules.
* Implemented Puppet modules to automate the installation and configuration for a broad range of services.
* Used Hierato publish modules very easily and used Common data for most nodes we used Hiera.
* Written Chef Cookbooks for various DB configurations to modularize and optimize product configuration.
* UsedChef for server provisioning and automating infrastructure.
* Development and version control of Chef Cookbooks, testing of Cookbooks using Food critic and Test Kitchen and running recipes on nodes managed by on premise Chef Server.
* Well versed with Ansible Playbooks, modules, and roles.
* Experienced in cloud automation using AWS, Azure, Puppet, Chef, Terraform
* Set up Continuous Integration for major releases in Jenkins.
* Extensively worked on Jenkins for continuous integration and for End-to-End automation for all build and deployments.
* Knowledge and experience in creating Jenkins Pipeline. Managed multiple plugins in Jenkins.
* Experienced with build automation tools like Ant and Maven.
* Experienced with Docker container service.
* Knowledge of network components like firewalls, protocols, routers, servers, load balancers, etc.
* Building/Maintaining Docker container clusters managed by Kubernetes.
* Implemented K8’s dashboard tools for Kubernetes with Docker to assist with auto-scaling, continuous integration, rolling updates with zero downtime.
* Practical experience in Cloud Methodologies like IaaS, PaaS, SaaS.
* Used Infrastructure as a Service (IaaS) like Amazon Web Services (AWS) to compute, storage and configure the firewall settings, giving temporary access and setting up an environment for production and development team.
* Automated the process of launching and stopping/terminating EC2 instances on Amazon AWS.
* Good knowledge of AWS services like S3, ELB, RDS, Lambda, Glacier, Redshift, IAM, Route 53, Auto Scaling, Cloud Formation, Cloud Front, Cloud Trail, Cloud Watch, Security Groups.
* Experience in administrating, deploying, and managing UBUNTU and CentOS servers.
* Experience in using Bug Tracking tools like Jira, Rally.
* Strong experience in working in Linux and Windows environments.
* Good analytical, problem solving, communication skills and can work either independently with little or no supervision or as a member of a team.
* Excellent written and verbal communication skills, strong organizational skills, and a hard-working team player.

**Technical Skills:**

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| **SCM Tool** | Bitbucket, GitHub, GitLab |
| **Build Tool** | ANT, MAVEN |
| **CI tools** | Jenkins, TeamCity |
| **Configuration management** | Puppet, Chef, Ansible. |
| **Scripting** | Ruby, Perl, Python, bash shell, PowerShell |
| **Servers** | JBOSS, Apache Tomcat, WebLogic, Nginx |
| **Languages** | Java, Python |
| **Monitoring tools** | Splunk, Nagios, AppDynamics |
| **Database System** | SQL Server 2000/2008, Mongo db. Oracle 9i/10g-PL/SQL |
| **AWS RDS** | PostgreSQL, Aurora, MySQL, Dynamo DB, Redshift |
| **Linux flavors** | Centos 6.5,7, Ubuntu, Red hat, Solaris. |
| **Windows** | Windows NT/2003/2008, Windows XP, Vista, 7, 10 |

**Professional Experience**:

**Tableau/Salesforce, Seattle, WA Nov 2020 – Till date**

**Role: Cloud DevOps Engineer**

**Responsibilities:**

* Experience working with and operating build, CI (TeamCity and GitLab) and version control systems (Perforce and Git) running at scale in the cloud (AWS).
* Maintaining, and streamlining build and release pipeline from code compilation, automated testing to deploying releases to multiple environments.
* Active monitoring of CI/CD Pipelines. Automating and evolving the tools and processes used to monitor the pipelines.
* Creating and maintaining documentation of the build/release process.
* Handling branch closures and communicating with developers to perform code back-outs if needed.
* Used JIRA for triaging and driving defects. Providing a first line of support to developers on issues with code submissions, builds or unexpected test failures.
* Created new AMI’s to meet the latest security patches and launched ASG stacks.
* Used Cloud Formation templates to launch a Stack and Auto Scale according to the traffic.
* Created Cloud Watch Alerts and setup SNS services for active monitoring.
* Launched EC2 instances for spinning up new environments and configured them as Kubernetes nodes with the Kubernetes Master.
* Created and maintained VPC’s, Subnets, CIDR block, Security Groups in AWS.
* Maintained all development tools and infrastructure and insure availability for a 24/7 development cycle with teams.
* To achieve Continuous Delivery goal on high scalable environment, used Docker to deploy the Java microservices in Docker containers over Kubernetes.
* Maintained container management using Docker by writing Docker files and setting up the automated build and deployment on Kubernetes.
* Orchestrated the docker containers in the Kubernetes K8’s Platform.
* Maintained separate Kubernetes K8’s platforms for docker containers for non-prod, and performance environments.
* Versioning of the docker images was implemented to keep track and to roll back if needed.
* Managed service accounts used in TeamCity, Kubernetes, JFrog across the project.
* Renewed certificates of environments coordinating with external teams as per the schedule to avoid downtimes.

**Environment & Tools:** Java, Python, JFrog artifactory, Slack, TeamCity, Docker, GitLab, On Prem Data Servers, AWS EC2, VPC, Subnets, Security Groups, Load Balancers, Linux/Windows/Mac environment.

**AT&T, Bothell, WA Dec 2019 – Oct 2020**

**Role: DevOps Engineer**

**Responsibilities:**

* Performing regular patching activities to meet the compliance.
* Strong knowledge of source control management and tools.
* Maintaining source control branches and performing integrations with merge conflicts.
* Experience in Continuous Integration (CI), Continuous Delivery (CD) model, Agile and DevOps.
* Involved in Automation Deployment Team by working with Ansible.
* Created Ansible Playbooks to deploy, manage, build, and configure the server environments to automate system operations.
* Imported playbooks and roles from Ansible Galaxy and worked on them to meet the requirements.
* Using a Docker file, created Docker images and uploaded to Nexus artifactory.
* Deployed the docker containers in Kubernetes and monitored them using K8’s Platform.
* Uploaded and maintained WARs/EARs files in the Nexus Artifactory from where it is used to deploy in the instances.
* Launched instances in Azure for spinning up new environments and configured them as needed.
* Used Azure Cloud for setting up the Kubernetes nodes with the Kubernetes Master.
* Used ARM templates to launch a Stack in Azure to Auto Scale according to the traffic.
* Created and maintained Azure Virtual Network, Subnets, Azure Storage, Network Security Groups in Azure.
* Maintained all development tools and infrastructure and insure availability for a 24/7 development cycle with teams.
* Managed service accounts used in Jenkins, Kubernetes, Nexus across the project.
* Renewed certificates of environments coordinating with external teams as per the schedule to avoid downtimes.

**Environment & Tools:** Java, Maven, Nexus artifactory, Jenkins, Docker, JBoss, GIT, Code Cloud, On Prem Data Servers, Azure VM’s, Azure Virtual Network, Subnets, Azure Security Groups, Azure Load Balancers, Shell Scripts, Unix/ Linux environment.

**T-Mobile, Factoria, WA Aug 2017 – Nov 2019**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* To achieve Continuous Delivery goal on high scalable environment, used Docker to deploy the Java microservices in Docker containers over Marathon.
* Created Docker images using a Docker file, worked on Docker container snapshots, removing images, and managing Docker volumes.
* Maintained separate Marathon platforms for docker containers for non-prod, performance, and prod environments.
* Monitoring all application servers and services by using Splunk and AppDynamics.
* Created dashboards in Splunk and AppDynamics for better monitoring the servers and containers health.
* Worked on deploying latest Apigee versions of various proxies to multiple environments.
* Updated the Target Servers and Proxies configuration for different Apigee environments.
* Used Puppet Automation tool for configuration management in different systems.
* Implemented Puppet modules to automate the installation and configuration for a broad range of services.
* Deployed web servers on to a Puppet slaves and scripted the class of the modules.
* Controlled roles and user privileges for production and development team using IAM in AWS.
* Automated the process of launching and stopping/terminating EC2 instances to Amazon AWS.
* Created User Stories and managed JIRA tickets for tracking the issues/bugs/defects in each environment and categorizing them based upon the priorities.
* Maintained and documented Release process and other documents in Confluence (Wiki of the project) where team can work collaboratively.
* Used Confluence pages for documenting all the changes within the project to keep track.
* Utilized versioning of Confluence pages which helps in tracking the changes made by multiple users working on the same document.
* Using Terraform provisioned infrastructure over AWS.
* Managed and installed plug-ins for the Jira bug/issue tracker.
* Using python automated the AMI creation process, ASG stack creation, etc.
* Created Cloud Automation Stacks using AWS Cloud Formation Templates.
* Strong knowledge of using AWS services like S3, ELB, RDS, Lambda, IAM, Auto Scaling, Cloud Formation, Cloud Front, Cloud Watch, Subnets, VPS’s, Security Groups.

**Environment & Tools:** Java, Maven, JFrog artifactory, Terraform, Puppet, Jenkins, Docker, JIRA, Confluence, Tomcat, Splunk, AppDynamics, GIT, AWS EC2, Amazon Elastic Search, VPC, IAM, Shell Scripts, Unix/ Linux environment.

**Marathon Oil, Houston, TX Jan 2017 – July 2017**

**Role: Cloud DevOps Engineer**

**Responsibilities:**

* Performed application server builds in Linux environments and monitoring them using Linux Virtual Machines.
* Design and implemented Networking using Azure Networking services like Virtual Network, Application Gateway, Security Groups, Load balancer.
* Participated in Scrum meetings and followed Agile Methodology.
* Created Chef Cookbooks and Recipes to maintain and automate various parts of infrastructure.
* Refactor existing Opscode Chef Automation code.
* Developing Configuration Management modules and tools using Opscode Chef and Ruby**.**
* Test Chef Cookbook modification on cloud instances in Azure and using Test kitchen and Chef Spec.
* Creating Private networks and sub-networks and bringing Linux virtual machines under them based on the requirement.
* Highly involved in Configuring, monitoring and multi-platform servers by defining Chef server from workstation to manage and configure Chef nodes.
* Development of Chef recipes through Knife command-line tool to create Chef cookbooks to manage system configuration.
* Experience is setting up Chef infra, bootstrapping nodes, creating, and uploading Chef recipes, Chef node convergences in Chef SCM.
* Managed the configuration of the applications using Chef.
* Automated the cloud deployments using python, and Azure.
* Installed, Configured and Administered Hudson/Jenkins Continuous Integration Tool.
* Worked on the Installation and configuration of the monitoring tools Nagios.
* Created Traffic Manager for both individual machines and for group of machines under a network.
* To achieve Continuous Delivery goal on high scalable environment, used Docker coupled with load-balancing tool Nginx.
* Setting up private networks and sub-networks using Virtual Network and worked on setting up Traffic manager to associate with the networks.

**Environment & Tools:** Java, Maven, Nexus, Chef, Jenkins, Docker, Nginx, Nagios, Azure, Linux Virtual Machines, Virtual Network, Traffic Manager, Azure DevOps.

**Tanzanite Software Technologies, Hyderabad, India Jun 2014 – Dec 2015**

**Role: Build and Release 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.
* Managed all the bugs and changes into a production environment using the Jira tracking tool.
* Resolved update, merge and password authentication issues in Jenkins and Jira.
* Setting up continuous integration and formal builds using Jenkins with Maven and Tomcat repository.
* Installed and administered Tomcat repository to deploy the Artifacts generated by Maven and to store the dependent jars which are used during the build.
* Integrated Maven with Perforce to manage and deploy project related tags.
* Mentor Business Areas on Subversion Branching, Merging strategies concepts.
* Installed and configured Confluence as the enterprise wiki to document development and change management procedures.
* 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.

**Environment & Tools:** Java, Maven, Jira, Jenkins, Linux, WebLogic, Shell scripting.

**EDUCATIONAL QUALIFICATION:**

**Master’s in Computer Science 2017**

University of Central Missouri, USA