**RAHUL A**

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**Professional Summary:**

* 9+ years in the IT industry, including 8 years as a DevOps Engineer. proficient in various aspects of cloud services, DevOps, build/release management, software configuration management, source control, application server management, and system administration.
* Expert in AWS and Azure, with hands-on experience in IAM, S3, EC2, EKS, ECS, Route 53, Lambda, Kinesis, DynamoDB, and more.
* Skilled in setting up robust CI/CD pipelines using Jenkins, Ansible, Maven, Nexus, GitHub, CHEF, Terraform, and AWS services.
* Proficient in Docker and Kubernetes for containerization and orchestration.
* Experienced in Terraform and CloudFormation for infrastructure automation and provisioning.
* Hands-on expertise in monitoring and optimization tools like Dynatrace, CloudWatch, ELK stack, and Grafana.
* Strong background in automating AWS infrastructure using Terraform and CloudFormation, along with robust CI/CD skills.
* Experience in handling push, pull, commit, branching, tags and pull requests in Azure Repos.
* Extensive experience in maintaining and monitoring a cost-effective cloud infrastructure hosted in Microsoft Azure and AWS, ensuring above 99% uptime with disaster recovery plans.
* Implemented efficient ETL processes with AWS Glue and Data Pipeline.
* Proficient in build automation tools such as ANT, Maven, and Gradle.
* Familiar with Puppet, Chef, Ansible, and Jenkins for configuration management.
* Skilled in database management, with a focus on monitoring and optimization for RDS instances and various databases.
* Experienced in version control systems like SVN and Git (GitHub), as well as DevOps collaboration tools.
* Proficient in designing serverless architectures using AWS Lambda, API Gateway, and DynamoDB.
* Adept in scripting languages (Python, Bash, Perl) for automation.
* Familiar with Site Reliability Engineering (SRE) practices.
* Experienced in building and deploying Java applications across various environments (QA, UAT, Production).
* Proficient in scripting languages (Perl, Bash, Shell, Python) for automating build and release processes.
* Proficient in Linux-based systems and database management.
* Skilled in project management methodologies such as SDLC, Agile, and Waterfall.
* Implemented CI through Jenkins and Bamboo, with expertise in shell scripting and system monitoring using tools like Nagios.

**Technical Skills:**

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| Cloud Environment | Amazon Web Services (AWS), Azure |
| Infrastructure as code | Terraform and Cloud Formation |
| Operating System | Linux (RedHat Linux, SUSE, CentOS, Ubuntu) UNIX (IBM-AIX, Solaris) Microsoft Windows and MAC |
| Scripting | UNIX Shell Scripting (bash), Groovy, Python and Power Shell. |
| Version Control Tools | GIT, GITHUB, Subversion and Bitbucket. |
| Build Tools | Maven, Nexus, Ant, Gradle |
| Containerization Tools | AWS EKS& ECS, Docker, Docker Swarm and Kubernetes |
| Automation & Configuration Tools | Chef, Ansible, Jenkins |
| Monitoring and Logging Tools | Cloud Watch, Splunk, Nagios Elasticsearch and Grafana |
| Databases | Oracle, SQL Server, Azure Cosmos DB, MongoDB, Amazon RDS, Azure MySQL |
| Repositories | Nexus, JFrog Artifactory |
| Networking Protocol | TCP/IP, DNS, DHCP, Cisco Routers/Switches, LAN, FTP/TFTP, SMTP |

**Education:**

Anna University, Chennai, TN (INDIA) Bachelors, 2013

**Professional Experience:**

**Client : IHG, Atlanta, GA October 2020 – Present**

**Title. : DevOps AWS Cloud Engineer**

**Roles & Responsibilities:**

* Built and configured EC2 instances on AWS cloud platform, configured Elastic Load Balancer for traffic control for the EC2 and S3 buckets.
* Worked with AWS S3 and IAM services, created S3 buckets, and configured them with permissions, logging, versioning, and tagging and created new IAM users and groups, defined roles, policies and identify providers.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
* Automate AWS infrastructure through infrastructure as code by writing various Terraform modules, scripts by creating AWS IAM users, groups, roles, policies, custom policies, AWS Glue, Crawlers, Redshift clusters, snapshots of clusters, EC2, S3 buckets.
* Used AWS Glue to generate the schema for semi-structured data, created ETL code to transform and loaded the data warehouse on a recurring basis.
* Implemented a server less architecture using API Gateway, Lambda and DynamoDB and deployed AWS Lambda code from Amazon S3 buckets.
* Automated deployments using YAML, Bash, Python scripting.
* Good Understanding and knowledge YAML file to run and execute form Ansible server on to their respecting nodes.
* Proficient in writing Cloud Formation Templates (CFT) in YAML and JSON format to build the AWS services with the paradigm of Infrastructure as a Code.
* Created a Lambda deployment function, configured it to receive events from our S3 buckets and provisioned Lambda functions to create a Log stash for centralized logging.
* Created Highly available AWS RDS instances for SQL server and Oracle databases
* Launched database for MySQL, PostgreSQL and Oracle using RDS in multiple Availability Zones, set up monitoring for CPU utilization and limited DB connections by implementing alarms using Cloud Watch.
* Work with the various agile development teams to standardize branching and tagging of code in our repository and maintain code base integrity using Subversion (SVN), Git, Bitbucket, clear case and Team Foundation Server (TFS).
* Developed ETL code to transform and regularly loaded the data warehouse using AWS Glue to construct the schema for semi-structured data.
* Registered domain names and configured Route 53 to route internet traffic for our domains and finally configured Route 53 to check the health of our resources.
* Managed Amazon Web Service (AWS) projects while coaching the agile process and help implement agile methodology.
* Configured ServiceNow to integrate with AWS to Create Resource Profiles, configure governance, Populate the Cloud Service Catalog using Blueprints & Hands-on experience with trouble shooting several issues of ServiceNow integration with Cloud Management.
* Integration of user-facing elements developed by front-end developers with server side logic using Node.js.
* Created cloud infrastructure like EBS (Elastic beanstalk Application), ECS using Terraform for the deployment of Dockerized application.
* Configured the AWS ALB to route the traffic from target group to right targets on AWS ECS.
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic Container Service for Kubernetes (EKS).
* Setup full CI/CD pipelines so that each commit a developer makes will go through standard process of software lifecycle and gets tested well enough before it can make it to the production.
* Used Ansible as configuration management tool to automate repetitive tasks and to quickly deploy critical applications, by using Ansible playbooks, modules and roles.
* Worked on configuring the Elastic Fluentd Kibana stack and used it for analysing the logs from different applications.
* Deployment and operation of ELK Stack (ElasticSearch, LogStash, Kibana), Shield.
* Extensively involved in securing the applications by using Shield.
* Hands on experience in working with Installshield.
* Used Docker to virtualize the servers for the Dev and Test environment needs, implemented Docker containers to configure automation and for creating various environments to deploy the application which reduce cost for the enterprise.
* Integrated Docker container orchestration framework using Kubernetes by creating pods, config Maps, and deployments.
* Creating scripts in DSL Groovy which integrate with Jenkins for Automation to create seed jobs.
* Used Kubernetes for creating new Projects, Services for load balancing and adding to Routes by accessing from outside, created Pods through the new application and controlling, scaling and troubleshooting pods through SSH.
* Documented Rest API using Swagger Tool.
* Worked on Swagger API and auto-generated documentation for all REST calls.
* Setting up and configuring of New Relic, improved monitoring and performance of application in new relic.
* Used Splunk Dashboard responsible for the end-to-end event monitoring and log analytics generated by Fluentd of business-aligned applications.

**Tool/Technologies:** Git, SVN, Maven, Ant, AWS, Jenkins, Ansible, Terraform, Docker, Kubernetes, Tomcat, ELK, Nginx, Nagios, JIRA, Shell, Python scripts.

**Client : AT&T, Dallas, TX. May 2018 – September 2020**

**Title. : Cloud/Devops Engineer**

**Roles & Responsibilities:**

* DevOps engineer for providing Production Application support and implementing DevOps tasks including release management and Infrastructure maintenance and support.
* Actively managed, maintained, and monitored cloud infrastructure hosted primarily in Microsoft Azure.
* Implemented Azure Kubernetes service to deploy a managed Kubernetes cluster in Azure and create an AKS cluster in the Azure portal, with the Azure CLI.
* Utilized Kubernetes for the runtime environment of the CI/CD system to build, test deploy. Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Followed Agile SDLC methodology.
* Written Templates for Azure Infrastructure as code using Terraform to build staging and production environments. Integrated Azure Log Analytics with Azure VMs for monitoring the log files, store them and track metrics and used Terraform as a tool, Managed different infrastructure resources Cloud, VMware, and Docker containers.
* Used Terraform to provision Infrastructure for cloud with Infrastructure as a code (IaC). Also, created reusable Terraform modules in Azure environment.
* Used Azure Terraform to deploy the Azure infrastructure necessary to create development, test, and production environments for a software development project.
* Worked with Terraform Templates to automate the Azure IaaS virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
* Conﬁgured Grafana and set up dashboards with alerts to monitor the performance and health metrics of the application and infrastructure.
* Highly proﬁcient in Jira for project management and Gitlab for SCM
* Worked on Terraform and ARM templates for Azure service deployment automation.
* Utilized the Azure CLI to construct an AKS cluster in the Azure portal and the Azure Kubernetes service to deploy a managed Kubernetes cluster there. Terraform and Resource Manager templates were also used.
* Experience in working with AZURE resources like Azure Function Apps, Azure Logic Apps, Azure Blob Storage, Azure Key Vault, and Azure Log Analytics.
* Migrated data from Azure cloud storage accounts and data from Azure SQL dB to MySQL db.
* Automated application deployment in the cloud using Docker technology, Created and managed a Docker deployment pipeline for custom application images in the cloud using Jenkins.

**Tool/Technologies:** Microsoft Azure solutions, Azure SQL DB, JIRA, Gitlab, Agile- Scrum, CI/CD integration, Terraform, AWS Cloud watch, Maven, Jenkins

**Client : Exchange, Dallas, TX. October 2016 – April 2018**

**Title. : AWS Cloud Automation Engineer**

**Roles & Responsibilities:**

* Managed Web Applications using Chef, Config Files, Data Base, Commands, Users Mount Points and Packages. Define and deploy monitoring, metrics, and logging systems on OpenStack.
* Responsible for User Management, Plugin Management and END-END automation of Build and Deploy using Jenkins. Maintain automation and network simulators develop Python test scripts, run regression/sanity test release binaries.
* Deploying and operating AWS, specifically VPC, EC2, S3, EBS, IAM, ELB, Cloud Formation and Cloud Watch using the AWS console and AWS CLI. Monitoring health of Amazon EC2 instances and other AWS services
* Migrated standalone applications from local to AWS cloud. Deployed artifacts on AWS with JenkinsAWS Code Deploy plugin.
* Implemented the setup for master slave architecture to improve the performance of Jenkins. Used Jenkins for Continuous Integration and deployment into Tomcat Application Server.
* Wrote Chef recipes for automated uDeploy agent installs/updates, uDeploy agent relays install/update and configuring the same with the uDeploy server
* Implemented multi-tier application provisioning in OpenStack cloud, integrating it with Chef. Development of Chef Cookbooks to manage systems configuration.
* Installation, Configuration and administration of VMware.  Deployed PaaS solutions to a Private Cloud utilizing Virtual Infrastructure on VMWare/vRealize
* Managed GIT repositories for branching, merging, and tagging. Worked on creating automated pipelines for code streaming using vRealize.
* Involved in periodic archiving and storage of the source code for disaster recovery. Involved in Oracle Database Session monitoring & Performance tuning.
* Worked on Docker container snapshots, attaching to a running container, removing images, managing director structures and managing container.
* Created local, virtual repositories in Jfrog Artifactory and integrated with Jenkins. Worked with JIRA for issue tracking and monitoring.
* Deployed Java/J2EE applications to application servers in an agile Continuous Integration environment and automated the whole process, deployed and maintained multi-container applications through Docker.
* Worked with the Architects on SDLC process being the owner of post development environments
* Involved in writing SQL queries to implement the related changes and debugged the build errors using SQL queries to make sure Database is not corrupted.
* Performed the automation deployments using AWS by creating the IAMs and used the code pipeline plugin to integrate Jenkins with AWS and created the EC2 instances to provide the virtual servers.
* Set up and maintained Logging and Monitoring subsystems using tools loke; Elasticsearch, Fluentd, Kibana, Prometheus, Grafana and Alertmanager.
* Established infrastructure and service monitoring using Prometheus and Grafana.

**Tools/Technologies:** AWS (Amazon Web Services), GIT, SQL, Jenkins, AWS, Maven, Chef, Ruby, Docker, JIRA, Artifactory, Oracle, Shell, Tomcat, Power Shell Scripting. C#.Net, VMWare/vRealize, UNIX and Linux

**Client : Zensar Technologies, Hyderabad, India August 2013 – January 2016**

**Title : System Administrator**

**Roles & Responsibilities:**

* Configuring, managing, monitoring, and troubleshooting of all RedHat, CentOS servers.
* Creating Logical Volume Manager (LVM), creating Volume Groups, Logical volumes in RHEL and CentOS.
* Upgrade OS and Kernel for LINUX servers.
* Supporting Server and Desktop Management, Analysis and Maintenance.
* Configuring and monitoring of servers such as Samba, NFS, DNS, DHCP on RedHat Linux.
* Writing Script to automate repetitive administration and application tasks.
* Implementation of scheduled tasks as per management policies.
* Supporting Level 2 and Level 3 application.
* Creating and Managing user and group accounts, Documents, and procedures.
* Maintaining and troubleshooting of server problems.
* Install and configure VMware ESXi Hypervisor on bare metal.
* Responsible for creating VM’s according to needs. Managing hosts using vSphere.
* Migrating VM’s from one host to other to obtain load balancing.
* Resolving issues related to ESX host, Storage, Network and VMware update manager.
* Experience in storage, network, backup.
* Responsible for performing health check, troubleshooting and upgrade of VMware environments to improve sustainability.
* Monitoring and management of server hardware.
* Installed, configured, and administered Apache Tomcat 6 on Linux (RHEL 6) and responsible for deploying JAR files
* Deployed Puppet, Puppet Dashboard for configuration management to existing infrastructure.
* Installed Oracle on Linux and Windows servers.
* Ability to write Shell scripting.
* Installed and configured monitoring tools such as Nagios.
* Created branches in GIT implementing parallel development process.
* Experience installing packages using YUM and RPM on Nix.

**Tools/Technologies:** Red hat, Ubuntu, Nagios, git, Shell scripting, Perl, Python, Windows server, VMware ESX