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**Rohit**

**Cloud DevOps Engineer**

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**Professional Summary:**

An AWS Certified Engineer having **8+** years of immense experience in Cloud computing services leveraging AWS/Azure/GCP cloud which include servers (EC2 and virtual machines), storage, databases, networking, software, analytics, and intelligence, over the Internet to offer faster innovation, flexible resources, and economies of scale. Implementing robust identity and access management (IAM) policies to ensure only authorized users and services can access resources. I have provisioned secured, highly available and resilient architectures in the cloud and also worked on serverless architecture. Proficient in Terraform and Kubernetes for setting up the infrastructure.

* 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, Datadog |
| **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.
* 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.
* Controlled roles and user privileges for multiple teams using IAM policies, Service Control Policies, IAM Roles for multiple accounts managed under an AWS organization.
* Created cross account roles for the member accounts within an AWS Organization.
* Enabled GuardDuty to monitor and analyze logs from AWS CloudTrail, VPC Flow Logs, and DNS logs.
* Developed and executed incident response plans based on GuardDuty findings.
* 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.
* Installed and configured Datadog agents on various infrastructure components to collect metrics, logs, and traces.
* Used Datadog's APM to monitor application performance, identify bottlenecks, and ensure optimal application performance.
* Utilized Datadog’s tracing and logging features to perform root cause analysis for incidents and outages.
* Designed and maintained custom dashboards in Datadog to provide visibility into the health and performance of applications and infrastructure.
* Launched EC2 instances for spinning up new environments and configured them as Kubernetes nodes with the Kubernetes Master.
* Generated monthly Cost Reports by using Cost Explorer. Identified Fin Ops opportunities to reduce cloud costs, such as rightsizing instances, selecting appropriate pricing plans, and utilizing reserved instances or savings plans.
* Collaborated with teams to implement the mandatory Fin Ops tagging and labelling strategies so that each and every resource cost can be actively tracked which plays a major role.
* Allocated Budgets to Teams by using AWS Budgets to easily track on their ongoing cost and alert the team when they are close to exceeding their allotted spend and conducted Fin Ops variance analysis between budgeted and actual costs, providing insights and recommendations to the teams.
* Created and maintained VPC’s, Subnets, CIDR block, Security Groups in AWS and GCP.
* Used AWS Security Hub to aggregate security findings from multiple AWS services.
* Configured automated workflows to respond to security issues leveraging AWS Security Hub.
* Maintained all development tools and infrastructure and insure availability for a 24/7 development cycle with teams.
* Implemented and maintained infrastructure using Terraform for IaC and provisioned infrastructure over AWS and GCP ensuring consistency and reproducibility across environments.
* Conducted testing and validation of Terraform modules independently before integration into larger configurations.
* Handled multiple environments infrastructure by leveraging Terraform workspaces to create isolated environments (e.g., dev, staging, production) within a single configuration file.
* Utilized Terraform workspaces for variable overrides, allowing configuration adjustments specific to each environment.
* Automated routine infrastructure tasks using Terraform to improve operational efficiency.
* Wrote Ansible playbooks for managing and configuring the web servers across environments.
* 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.
* Configured and maintained monitoring and alerting systems using Prometheus, defining custom metrics, alerts, and dashboards in Grafana to monitor the health, performance, and availability of infrastructure, applications, and services.
* Integrated Grafana and Prometheus with other monitoring and observability tools, such as logging platforms like ELK stack to create a comprehensive monitoring ecosystem.
* 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, Terraform, Kubernetes, TeamCity, Docker, GitLab, On Prem Data Servers, Grafana, Prometheus, Datadog, VMWare, GCP, 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 in GitHub.
* Setup and configured CI/CD workflows using GitHub Actions.
* Used GitHub webhooks for triggering the CI/CD builds automatically when the code gets checked in.
* 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.
* Managed access controls and security policies in vCenter.
* 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, GitHub, Code Cloud, On Prem Data Servers, VMWare, 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: Cloud 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 using python.
* Set up and configured Azure Application Gateway for web traffic load balancing, routing, and SSL termination.
* Using Terraform provisioned infrastructure over AWS and Azure.
* Configured and maintained Azure Virtual Network, Subnets, Azure Storage, Network Security Groups in Azure.
* Created and maintained S3, RDS databases, Elastic Search Services in AWS.
* Created and maintained pipelines using Azure DevOps.
* Leveraged Terraform providers and modules to deploy Virtual Machines and EC2 instances in Azure and AWS cloud respectively.
* Facilitated parallel development by allowing multiple team members to work on different Terraform workspaces concurrently.
* Implemented state management using Terraform workspaces to avoid conflicts between different environments.
* Using python automated the AMI creation process, ASG stack creation, etc.
* Strong knowledge of using AWS services like S3, ELB, RDS, Lambda, IAM, Auto Scaling, Cloud Formation, Cloud Front, Cloud Watch, Subnets, VPC’s, Security Groups.
* Installed and configured Kubernetes clusters on various environments.
* Implemented CI/CD pipelines for deploying and updating Kubernetes applications.
* Managed cluster resources including pods, deployments, services, and storage.
* Perform regular maintenance tasks such as upgrading Kubernetes versions, applying patches, and troubleshooting issues.
* 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.

**Environment & Tools:** Java, Maven, JFrog artifactory, Terraform, Puppet, Jenkins, Docker, JIRA, Confluence, Tomcat, Splunk, AppDynamics, GIT, Azure, Virtual Machines, Azure VPN Gateway, Azure Application Gateway, 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.
* Leveraged GitHub Actions for designing and orchestrating the CI/CD Pipelines.
* 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, GitHub, 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:**

**Masters in Computer Science May, 2017**

University of Central Missouri, USA

**AWS Solutions Architect Associate - Certification Dec 2023**

Validate at – [Credly AWS](https://www.credly.com/badges/a65ae65c-7e71-415d-90c2-1f82f7e3af21/public_url)

**HashiCorp Certified: Terraform Associate (003) - Certification Jun 2024**

Validate at – [Credly Terraform](https://www.credly.com/badges/d8403fcd-7aff-4742-9aa9-ac11f65d6978/public_url)