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**Rohit**

**Cloud DevOps Engineer**

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**Professional Summary:**

An AWS Certified Engineer having **9+** 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 |
| **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:**

* Experienced in designing and deploying operational builds using CI (TeamCity and GitLab) and version control systems (Perforce and Git) running at scale in the cloud (Azure).
* 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.
* Administered Azure environments, ensuring optimal performance, security, and availability. This includes managing virtual machines, networks, databases, and other Azure resources.
* Designed and managed Azure Virtual Networks, Subnets, NSGs, Azure Firewall, and VPN Gateway, ensuring secure and scalable network infrastructure.
* Configured and optimized Azure Load Balancer, Application Gateway, and Azure Traffic Manager for high availability and efficient traffic distribution.
* Troubleshot complex networking issues related to virtual networks, VPNs, peering, and DNS, improving network reliability and performance.
* Managed Azure Private Link, ExpressRoute, and Network Watcher for network monitoring, diagnostics, and secure access.
* Managed access controls and identity policies in Azure to safeguard data in compliance with organizational security standards and regulatory requirements.
* Created and maintained VPC’s, Subnets, CIDR block, Security Groups in Azure Cloud.
* Maintained all development tools and infrastructure and insure availability for a 24/7 development cycle with teams.
* Developed and maintained scripts using PowerShell, Azure CLI, and other relevant tools to automate routine tasks, deployments, and configurations.
* Scheduled and managed automated tasks using PowerShell scripts, ensuring that they run at specified times and frequencies.
* Provisioned and managed cloud resources, including Azure VMs, AKS, Azure App Services, and Azure SQL Database, to support diverse workloads.
* Developed, deployed, and maintained Azure SQL databases, ensuring high availability and optimized performance to support scalable web applications.
* Automated infrastructure management using PowerShell and Bash scripts, enhancing deployment efficiency and reducing manual intervention by 40%.
* Created PowerShell and Bash scripts to automate repetitive tasks, manage deployments, and streamline system administration processes across Azure environments.
* Enforced cloud infrastructure and network security best practices using Azure Active Directory, RBAC, and network security controls, strengthening the security posture of cloud environments.
* Designed and implemented Infrastructure as Code (IaC) solutions using Terraform to automate the provisioning and management of cloud resources in Azure environments.
* Developed reusable Terraform modules for common infrastructure components such as VPCs, subnets, security groups, and IAM roles, promoting consistency and efficiency across projects.
* 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.
* Employed Infrastructure as Code (IaC) principles with Ansible to automate the provisioning and management of cloud resources on Azure.
* Wrote Ansible playbooks for managing and configuring the web servers across environments.
* Implemented containerization using Docker to streamline application deployments, resulting in faster and more consistent delivery of web applications.
* Deployed the docker containers in Azure Kubernetes Service (AKS) and monitored them using K8’s Platform.
* Developed and managed Docker containers, ensuring efficient and secure container orchestration by leveraging Azure Kubernetes Service (AKS).
* Maintained separate Kubernetes clusters for docker containers for non-prod, 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, Terraform, Kubernetes, TeamCity, Docker, GitLab, On Prem Data Servers, Ansible, Powershell, Azure, Azure AKS, Azure Virtual Networks, Subnets, NSGs, Azure Firewall, VPN Gateway, Azure Private Link, Azure SQL, ExpressRoute, Azure Load Balancer, Application Gateway, VPC, Subnets, Security Groups, Load Balancers, PowerShell, 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: 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.
* 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

**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)