Anup Singh Rawat

DevOps engineer

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Professional Summary:

- Accomplished IT Technocrat with over 8+ years of experience as a Cloud DevOps Engineer with a strong background in Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), and release management.
- Implemented AWS Lambda functions to run scripts in response to event in Amazon Relational DB table or S3 bucket or to HTTP requests using Amazon API Gateway.
- Created alarms and trigger points in CloudWatch based on thresholds and monitored the server's performance, CPU Utilization, disk usage etc and have insight in the monitoring tool namely, Nagios, Sensu.
- Skilled in CI/CD pipeline build and deployment, proficient in tracking and managing multiple deployments across pipeline stages using tools like Jenkins and TeamCity.
- Expertise in Infrastructure as Code (IaC) tools including Terraform for AWS, Azure, and GCP environments, with experience creating Terraform modules for multi-tier architectures that support both Azure Databricks and AWS resources.
- Expertise in setting up Staging and Prod environments for CI workflow using tools like GIT, Maven, Jenkins,
- Puppet. Management and design of integrated build pipelines using continuous integration workflows such as Jira, Git, Jenkins, Docker.
- Experienced in Ansible for configuration management, automation, and deployment, with a solid background in writing Ansible playbooks for managing AWS and on-premises environments, including role-based access through Ansible Tower.
- Good knowledge in Infrastructure as Code by using Terraform and Cloud Formation and Worked on creating Cloud Formation templates for dev, test, staging and production.
- Experienced in writing Terraform templates that can spin up infrastructure for multi-tier application and provisioned boot strapped software on Cloud with terraform.
- Proficient in Kubernetes and Docker Swarm for container orchestration, deployment, scaling, and load balancing, with hands-on experience managing Docker components and OpenShift for complex runtime environments.
- Comprehensive knowledge of Microsoft Azure services such as Application Insights, DocumentDB, Azure Monitoring, Key Vault, and SQL Azure.
- Strong experience in AWS Cloud Administration, including EC2, S3, IAM, Auto Scaling, and Route 53, as well as advanced monitoring with CloudWatch and Nagios.
- Skilled in Git, GitHub, Bitbucket, and other source control management tools, with hands-on experience in scripting automation using Python, YAML, JSON, and BASH.
- Proficient in containerization and orchestration with Kubernetes, deploying microservices and applications within isolated namespaces and managing complex deployments in both production and pre-production.
- In-depth experience in deploying WAR, JAR, and EAR files across application servers like WebLogic, WebSphere, and JBoss.
- Strong knowledge of networking concepts and UNIX/Linux administration, with experience using monitoring tools such as Nagios, CloudWatch, and Splunk for system performance.
- Experience with configuration management tools, including Ansible, Chef, and Puppet, for automated deployments and infrastructure-as-code practices.
- Extensive exposure to Configuration Management policies and practices with regards to SDLC; along with automation of scripting using BASH/Shell.
- Expert Knowledge on Bash Shell Scripting, Automation of cron Jobs, Ruby and Python Scripting.
- Created scripts in Python which integrated with Amazon API to control instance operations.
- Participated in weekly release meetings with Technology stakeholders to identify and mitigate potential risks associated with the releases.
- Extensive experience with building of deployable artifacts (war & ear) from source code like ANT, Maven.

Technical Skills:

Programming Languages:	C, C++, HTML, Core Java, java Script, UNIX, SQL, JSON, Python, Shell Scripting, YAML
Databases:	Amazon RDS, Dynamo DB, Amazon Aurora, RedShift, MySQL
Continuous Integration Tools:	Jenkins, TeamCity
Configuration Management:	Ansible, Chef, Puppet, Terraform
Version Control and Build:	GIT, GIT Hub, Maven, Docker, Kubernetes, SVN
Cloud Platform:	Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)
Bug Tracking Tools:	JIRA, Remedy, ServiceNow
Operating Systems:	Windows(7/8/10/XP), Linux (Red Hat, Ubuntu, CentOS), UNIX
Web/Application servers:	Apache Tomcat, WebSphere
Logging & Monitoring:	Nagios, Cloud Watch, Splunk

Professional Experience:

Client: GLOBUS INFO SERVICES June 2024 – Till date
Role: DevOps Engineer Responsibilities:

- Designed and implemented multiple CI/CD pipelines on-premises using Jenkins to automate application deployment and release.
- Implemented cluster services using Docker and Kubernetes to manage local deployments in Kubernetes by building a self-hosted Kubernetes cluster using Terraform and Ansible and deploying application containers.
- Led containerization and migration of Java applications to OpenShift Container Platform, managing microservices and automating CI/CD workflows.
- Utilized Terraform to define, provision, and manage infrastructure as code across both on-premises and GCP environments, optimizing resource deployment and scaling for cost-efficiency.
- Leveraged Ansible for continuous deployment, creating inventories, writing playbooks in YAML, and managing role-based access for deployment automation.
- Build servers using GCP, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
- Integrated GCP services to support hybrid cloud applications, managing resources and implementing best practices for secure cloud infrastructure.
- Implemented cluster services using Docker and Kubernetes to manage local deployments in Kubernetes by building a self-hosted Kubernetes cluster using Terraform and Ansible and deploying application containers.
- Expertise in Source Code Management and repositories using Tortoise SVN and GIT, managing version control and streamlining code collaboration.
- Setup Alerting and monitoring using Stackdriver in GCP.
- Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack Monitoring using Ansible playbooks using CI tool like run desk and Jenkins. Utilized ServiceNow for incident, change, and service request management.
- Automated repository management in JFrog Artifactory with AQL (Artifactory Query Language) and shell scripts, optimizing repository efficiency.
- Configured and administered GitHub private repositories, integrating them into Jenkins to streamline source control workflows and trigger build jobs.
- Building/Maintaining Docker/ Kubernetes container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP
- Setup Alerting and monitoring using Stackdriver in GCP.
- Implemented cluster services using Docker and Kubernetes to manage local deployments in Kubernetes by building a self-hosted Kubernetes cluster using Terraform and Ansible and deploying application containers. Developed Perl and Shell scripts to automate build and release processes, ensuring reliable and efficient deployments.
- Configured Jenkins plugins to optimize workflows and build job stability.
- Migrated and supported SDLC tools, including JIRA, Confluence, and BitBucket, to enhance code collaboration and tracking for the DevOps team.
- Monitored and managed GCP instances, configuring security policies and resource permissions to ensure system security and compliance.
- Administered Jira and Confluence for project management and collaboration, managing user access and resolving permissions-related issues.
- Created scripts in Python, Shell, Ruby, Perl, and PowerShell to automate various tasks, improving DevOps team efficiency and response times.
- Played a key role in resolving build, deployment, and testing errors, serving as the primary contact for troubleshooting CI/CD failures.

Environment: Git, Jenkins, TeamCity, JFrog Artifactory, AQL, OpenShift, Terraform, GCP, Confluence, Java, Unix/Linux, Python, Shell Script, ServiceNow, Apache, Maven, Apache Tomcat, SOAP, JIRA, Chef, Ansible, Linux, Kubernetes, JSON, Kafka, Perl, AWS, DNS,

Client: Lyceum GURUKUL PRIVATE LIMITED March 2021 – June 2024
Role: Software Engineer Responsibilities:

- Configured new CI/CD pipelines for automated application deployment.
- Automated Jenkins build jobs for continuous integration and managed day-to-day builds and deployments across lower environments with regular pipeline maintenance.
- Implemented cluster services using Docker and Kubernetes to manage local deployments in Kubernetes by building a self-hosted Kubernetes cluster using Terraform and Ansible and deploying application containers.
- Developed build scripts using Ant and Maven to support environment transitions.
- Utilized JPMC proprietary tools (FAST-ARM, AIM, GAIA on private cloud, and EC2 instances) for continuous deployment.
- Coding and Development: Writing, updating, and
- integrating clean, efficient code using various
- programming languages, JavaScript, python and frameworks.
- Testing and Quality Assurance: Performing unit,
- integration, and manual testing; debugging,
- troubleshooting, and resolving software defects to ensure
- quality standards are met.
- Deployment and Maintenance: Configuring servers and
- environments for release, monitoring software performance
- post-deployment, and implementing updates or upgrades
- for existing systems. Constructed end-to-end CI/CD pipelines for Java applications and resolved Maven-based build dependencies.
- Launched Amazon EC2 instances with configuration tailored to application specifications, defining AWS Security Groups to control traffic flow.
- Evaluated Kubernetes for Docker container orchestration.
- Configured multiple AWS instances with Elastic Load Balancer and Auto Scaling for cost-effective, resilient, and highly available system designs.
- Configured and networked Virtual Private Clouds (VPC) and developed CloudFormation templates for automated deployment of AWS resources.
- Wrote Terraform templates to define AWS infrastructure for staging and production.
- Managed AWS cloud resources, including EC2 instances and S3 buckets for backup, storage, and policy management.
- Created CloudWatch alerts and incorporated them into Auto Scaling launch configurations.
- Used Ansible to automate server configuration and manage existing and new server setups.
- Set up AWS RDS MySQL DB clusters and utilized AppDynamics for monitoring across all Prod and Non-Prod environments.
- Installed SonarQube as a Docker container on openstack, Azure, AWS EC2 and integrated it with Jenkins.
- Focused on CI/CD practices to streamline deployment of enterprise solutions to target environments.
- Developed Python scripts for automated log rotation on web servers.
- Generated scan reports using SonarQube and OSS, communicating issues to AD teams.
- Supported build-related issue resolution in collaboration with product development teams.
- Implemented and maintained production monitoring and alerting using AWS CloudWatch and Nagios.

Environment: AWS (EC2, VPC, ELB, S3, RDS, CloudTrail, Lambda, DMS, CloudFormation, EBS, IAM Roles), Maven, CloudWatch, Ansible, AWS Auto Scaling, Terraform, Unix/Linux, Shell scripting, Python, JPMC Tools (ARM, AIM, GAIA), Docker, Bash Scripting, Python, Ruby, JIRA, Apache Tomcat, JavaScript.

Client:E-MECH SOLUTIONS PVT LTD Aug 2017 – Feb 2021
Role: AWS DevOps Engineer Responsibilities:

- Installed, configured, and administered Jenkins Continuous Integration Tool.
- Developed build scripts using Maven to create build artifacts like WAR and EAR files.
- Used GIT for source code management, handling branching, merging, tagging, and version maintenance across environments on a Linux platform.
- Configured CI/CD pipelines in Jenkins for automatic application deployment and clean-up post-build for new code commits in GIT.
- Configured Docker Containers, creating Dockerfiles for different environments, and authored Dockerfiles for Build, Ship, and Run processes. Pushed Docker images to Docker Hub after each build.
- Administered GIT repositories with branching, forking, tagging, merge requests, and notifications to support code versioning.
- Managed Ansible Playbooks with roles, variables, and file modules for file operations on remote systems. Created Ansible Inventory for continuous deployment automation.
- Used Ansible Tower for easy dashboard access, implementing role-based access control for team deployment tasks.
- Deployed Kubernetes to manage containerized applications, including creating config maps, deployments, secrets, and services, and deploying application containers as pods.
- Implemented Container Architecture with Kubernetes Cluster Management.
- Configured and managed Apache and Tomcat servers.
- Designed and implemented a scalable, secure cloud architecture with Amazon Web Services (AWS).
- Built servers using AWS, handling volumes, EC2, RDS, security groups, auto-scaling, and Elastic Load Balancers (ELBs) within a Virtual Private Connection (VPC).
- Wrote Terraform templates for Infrastructure-as-Code (IaC) on AWS to build staging and production environments.
- Set up monitoring tools, including Nagios and Amazon CloudWatch, to monitor metrics like network packets, CPU utilization, and load balancer latency.
- Managed the Virtual Private Cloud (VPC) using AWS CLI, creating APIs to migrate on-premises data centers to the cloud.
- Set up build pipelines in Jenkins by using various plug-ins like Maven plug-in, EC2 plug-in, Docker, Terraform, JDK.
- Monitored relational databases, generating periodic backups as snapshots stored in S3.
- Developed and deployed a GIT-Jenkins-AWS pipeline for automating AWS infrastructure building.
- Monitored Linux servers for CPU, memory, and disk utilization to optimize performance.
- Troubleshot automation issues related to application installation and configuration in test environments.

Environment: AWS (EC2, VPC, ELB, S3, RDS, CloudTrail, CloudFormation, Redshift, EBS, IAM Roles), Maven, CloudWatch, Nagios, Ansible, Kubernetes, AWS Auto Scaling, Terraform, Unix/Linux, Shell Scripting.

Education:

Diploma in Computer Application 2012 to 2013 from N.I.T.P.S,
Degree (B.C.A [computers]) From Yashwantrao Chavan Maharashtra Open, INDIA University, 2016-2019, Diploma 1 year From Academy of Learning Career
College, Kamploops,BC, CANADA 2024-2025