**Revanth Alokam**

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**Profile Summary**

* **Seasoned DevOps Engineer with 9+ years of experience, adeptly utilizing diverse automation tools to oversee end-to-end deployment processes.**
* **Successfully implemented a robust Continuous Delivery pipeline integrating Docker, Jenkins, GitHub, Maven, and AWS.**
* Proficient in writing Infrastructure as Code (IAC) with Terraform and AWS CloudFormation, crafting reusable modules in various AWS cloud environments.
* Demonstrated process in automating build platforms and continuous integration within the DevOps architecture.
* Utilized Ansible for precise configuration management and remote execution, streamlining deployment workflows.
* **Proficient in cloud technologies, adeptly designing Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) capabilities.**
* Expertly deployed applications on AWS with a focus on high availability (HA) and security considerations.
* **Managed IAM roles, users, groups, and policies, and enhanced security by implementing Multi-Factor Authentication (MFA).**
* Possessed solid knowledge of diverse protocols including FTP, SSH, HTTP, and HTTPS.
* Designed, developed, and deployed applications across cloud-based solutions using configuration management tools such as Ansible.
* **Proficiently managed Kubernetes services, including Google Kubernetes Engine (GKE) and AWS Elastic Container Service**.
* Demonstrated hands-on experience in crafting Docker files for image creation.
* Equipped with a deep understanding of AWS Redshift and skilled in administering various AWS Services through Amazon AWS Console, CLI, and API using Java and Python in both Linux and Windows environments.
* Worked effectively with monitoring tools including Nagios, ELK, and New Relic, ensuring comprehensive application and system monitoring.
* Strong troubleshooting skills, addressing issues during build, deployment, and production support.
* Extensive experience utilizing Maven as a build tool for generating deployable artifacts (jar, war, and ear) from source code.
* Managed and built code with proper authorization using Jenkins.
* Implemented Puppet hierarchies, effectively segregating data from Puppet code.
* **Established and maintained infrastructure for applications on AWS using Terraform, automating CI/CD pipelines for diverse applications**.
* Adept with AWS Redshift and proficient in administering various AWS Services through Amazon AWS Console, CLI, and API using Java and Python in Linux and Windows environments.
* Deployed and monitored applications across various platforms using Elastic Beanstalk.
* **Worked extensively with Amazon AWS Cloud Services, including EC2, VPC, S3, ALB, Auto Scaling, CloudWatch, and SNS.**
* Automated deployment of microservices by pulling images from a private Docker registry and deploying them to a Docker swarm cluster using Ansible.
* Extensively managed Jenkins by installing, configuring, and maintaining it for continuous integration (CI) and end-to-end automation of all builds and deployments.
* Proficiently managed IAM users, groups, access management, and permissions in AWS.
* Thrived in both independent and collaborative work settings, exemplifying rapid learning capabilities and exceptional communication skills.

**Technical Skills**

**Cloud Technologies:** **AWS**

**Operating Systems: Windows All variants**

**Monitoring Tools:**  **App Dynamics, Kibana**.

**Provisioning Tools:** **Terraform, Cloud Formation**

**Web/Application Servers:** **JBoss, Web Logic, Tomcat, Apache HTTP Server.**

**Database: Oracle, SQL Server, MySQL, and MS Access (using VBA).**

**Configuration Management: Splunk, Docker**.

**Test and Build Systems: Jenkins, Maven.**

**Project Management Tools: MS Office, MS Project**

**Design Tools:**  **UML (Use cases, Class Diagrams, Sequence Diagrams)**

**Source Control Tool: GIT, Subversion (SVN)**

**Professional Experience:**

**Walmart, Massachusetts August 2022-Present**

**AWS DevOps Engineer**

**Tools & Environment**: **AWS, Python, ANT, Maven, Chef, Jenkins, OpenShift, Subversion, Kubernetes HTML,**

**MySQL Oracle DB, Nginx, Puppet, Tomcat, Splunk, GIT, SVN. Public Cloud Services, OpenShift, PowerShell,**

**Hyper-V**

* Created a comprehensive automated build and deployment platform, orchestrating code builds, promotions, and deployments via Jenkins and GitHub.
* Effectively managed multiple AWS accounts, overseeing various VPCs for both production and non-production environments. Prioritized automation, integration, and cost control.
* Leveraged Struts tag libraries (HTML, logic, and Bean) to develop JSPs.
* **Proficiently utilized a range of AWS services and infrastructure, including EC2, AMI, ECS, Elastic Cache, Elasticsearch, RDS, VPC, IAM, KMS, WAF, CloudTrail, CloudWatch, S3, CloudFront, AWS CLI scripting, ELB, Route 53, Lambda, DynamoDB, Elastic Beanstalk, SQS, SNS, and Security Group management**.
* Encompassed the entire DevOps workflow, starting from SCM Commit Build, Integration Build, Code
* Employed Docker, Kubernetes, and OpenShift to manage microservices, facilitating continuous integration and continuous delivery.
* Launched Amazon EC2 Cloud Instances using Amazon Web Services (Linux/Ubuntu/RHEL) and configured instances to suit specific applications.
* Installed applications on AWS EC2 instances and configured storage on S3 buckets.
* Managed IAM policies, ensuring proper access to diverse AWS resources, and optimized workflows for access grants.
* **Created Docker files for each microservice, adjusting Tomcat configuration files for deploying Java-based applications in Docker containers**.
* Successfully built and deployed code artifacts into various environments on the Confidential AWS cloud.
* Implemented and managed AWS cloud platforms, fostering automated deployment in Tomcat environments.
* Devised performance testing strategies for AWS-based applications.
* **Created Puppet manifest files for installing Tomcat instances and managing configuration files for multiple applications.**
* Set up MongoDB clients and executed queries to validate data against Mongo Collections and MySQL.
* Designed high-availability applications on AWS, spanning availability zones and regions.
* Installed, configured, and integrated Apache Web Server with WebLogic Application Server for load balancing.
* Streamlined build and deployment processes using Shell scripting.
* Migrated JIRA across environments and managed JIRA database dumps.
* Operated within Continuous Integration (CI) and Continuous Delivery/Deployment (CD) environments.
* **Created and managed S3 buckets, applied policies, and employed them for storage and backup on AWS. Proficient in migrating applications from internal data centers to AWS**.
* Employed Terraform to template AWS infrastructure as code, constructing staging and production environments.
* Possessed unique expertise in Pivotal Cloud Foundry (PCF) architecture and design, troubleshooting platform component issues, and developing global/multi-regional deployment models for Cloud Foundry and AWS.
* Installed, configured, and managed MongoDB servers while fine-tuning database performance.
* **Worked with Apache Tomcat, WebLogic, WebSphere, and JBoss application servers across Linux, Unix, and Windows environments.**
* Integrated TeamCity and Octopus for seamless continuous integration and delivery. Enhanced existing automated build/deploy processes and architected centralized deployment using Octopus.
* Automated and tested CRM product build and deployment in Smoke and DEV environments using PowerShell and Octopus tools.
* Spearheaded the creation of supporting platforms for OpenStack Infrastructure on the cloud, establishing a reliable foundation for all services and applications.
* **Utilized Jenkins for building and deploying Java code**.
* **Crafted CloudFormation templates using AWS's Serverless Application Model and Swagger to deploy RESTful APIs via API Gateway and Lambda**.

**Southwest Airlines, Austin, TX**  **Dec 2020-August 2022**

**DevOps Engineer**

**Tools & Environment:** **AWS EC2, S3, Cloud Formation, Dynamo DB, Kinesis, VPC, IAM, Tomcat Apache, Micro- Services, Cloud Watch, New Relic, Git, Linux, ELK Stack, Jenkins, Maven, Ansible, JVM**

* Oversaw monitoring and alerting for Production servers through CloudWatch, Sensu, and Grafana.
* **Deployed Maven-based Java applications with scripted pipelines in Jenkins, including the setup of JNLP servers**.
* Built solutions using AWS components, employing CloudFormation or tools like Ansible, Chef, or Puppet.
* Provided and implemented suggestions for Cost Optimization on Client Infrastructure.
* **Managed IAM roles, users, groups, and policies, and implemented MFA to enhance security.**
* Executed tasks to support local and remote sites, handling complex batch operations.
* **Designed architecture, executed end-to-end implementation, and supported AWS-based infrastructure solutions**.
* Utilized CloudFront, Route53, S3, VPC, and EC2 instances to establish static and private ecosystems.
* Mentored fellow systems administrators in DevOps and AWS best practices.
* **Leveraged Configuration/Systems Management tools such as Chef, Ansible, Salt, Puppet, and AWS Management Tools.**
* Automated Kong API deployment using Terraform.
* **Implemented AWS services including EC2, S3, RDS, ECS, Elastic Load Balancer, and Auto Scaling groups.**
* Deployed and managed web applications and services on AWS through Elastic Beanstalk.
* Managed Amazon Web Services (AWS) platform instances using Puppet and Chef Configuration Management.
* **Designed AWS CloudFormation templates for custom sized VPC, subnets, and NAT, ensuring successful deployment of web applications and database templates.**
* **Created Maven POMs to automate build processes for new projects and integrated them with third-party tools like SonarQube and Nexus.**
* Configured messaging queue settings in WebLogic by creating bus members.
* Managed user and group creation, management, and deletion using Amazon Identity and Access Management.
* Monitored service deployments and validated services across all environments.
* Actively engaged in scrum meetings, effectively communicating progress with team members and managers.
* **Executed CI/CD deployment using Jenkins integration tools, with a focus on Amazon Web Services.**
* Automated the deployment of Java applications using Maven.
* Managed incidents, analyzed application logs, and troubleshot server-level issues in production and test environments.
* Established unified CI/CD processes for various technology stacks.
* **Created and managed Virtual Machines using Xen, KVM, or RHEV to support specific services.**
* Conducted promotions on ClearCase from one server to another.
* Addressed IIS issues across different environments, including troubleshooting in Kubernetes clusters within VMware and AWS.
* **Installed, configured, and managed VPCs, Subnets, and AWS Instances to ensure efficient operations.**

**Bank of America, Austin, TX**   **Aug 2017 – Dec 2020**

**Build/Release Engineer**

**Tools & Environment:** **AWS, Python, Django, SVN, Jenkins, Web logic, Rally, Shell, Chef, Ruby, Ant, Maven,**

**Linux Web Framework, GIT**

* Implemented, maintained, and supported dependable, timely, and reproducible builds for project teams.
* **Collaborated with developers to establish and apply suitable branching, labeling/naming conventions using Subversion (SVN) source control.**
* Estimated AWS usage costs and identified operational cost control measures.
* Collaborated with developers and the Enterprise Configuration Management Team to eliminate inefficient practices and bottlenecks by implementing changes to best practices and tools.
* Managed user accounts, and roles on Rally, MySQL, production, and staging servers.
* Defined and executed Configuration Management (CM) and Release Management processes, policies, and procedures.
* Developed Chef Recipes to streamline configurations and automate installation processes.
* Established AWS Route53 configurations to efficiently route traffic across different regions.
* **Maintained 4-5 testing/QA environments and orchestrated the deployment of the production environment in AWS, continuously monitoring key performance factors like live traffic, logs, memory utilization, and disk usage**.
* Created Chef Cookbooks for diverse DB configurations, optimizing and modularizing end-product setups.
* Converted production support scripts into Chef recipes and employed AWS server provisioning using Chef Recipes.
* Collaborated in creating Java APIs for Amazon Lambda to manage various AWS services.
* Utilized Build Management Tools Ant and Maven for crafting build.xml and Pom.xml files.
* Managed branching, tagging, and release activities on Version Control Tools like SVN and GitHub.
* Contributed to backend development, employing technologies such as Spring 3, JPA, and Hibernate.
* **Provided Configuration Management (CM) and Build support for multiple applications, ensuring successful deployment to various environments**.
* Resolved conflicts arising from source code merging in SVN/GIT.
* Integrated deployment processes within the Continuous Integration (CI) environment using Jenkins.
* **Designed, implemented, and maintained a fully scripted Software-as-a-Service (SaaS) infrastructure within AWS, facilitating continuous integration for a Linux environment**.
* Crafted deployment workflows in Jenkins encompassing prerelease, release, and post-release stages.
* Successfully migrated JIRA instances across environments, involving extensive work on JIRA database dumps.
* **Configured and sustained Hudson to facilitate CI processes, integrating the tool with Ant and Maven for streamlined build scheduling. Solely responsible for maintaining the CI Jenkins server.**
* **Collaborated with development, testing, deployment, systems/infrastructure, and project teams to ensure uninterrupted functioning of build and test systems.**

**Blue Cross Blue Shield, Fargo, North Dakota**  **Sep 2015 – Aug 2017**

**DevOps Engineer**

**Tools & Environment:** **AWS, Python, Jenkins, Maven, Linux, EC2, Cloud Watch, Scrum, Jira, Java, My SQL,**

**Shell Scripts.**

* **Actively participated in both client meetings and internal Maven development projects, contributing to the coding and testing services daily**.
* Played a key role in the design, implementation, and modification of Python code.
* **Implemented and maintained monitoring and alerting systems for production and corporate servers, as well as cost monitoring, utilizing CloudWatch**.
* Managed Linux and Windows virtual servers within AWS EC2.
* **Specialized in containerization and the concept of immutable infrastructure, with Docker as a fundamental component of this experience**.
* Devised effective GIT branching strategies and merging approaches based on release frequency, employing GIT flow workflows on Bitbucket.
* **Demonstrated proficiency in developing Python-based Web Services (SOAP, RESTful) using XML and JSON.**
* Defined and executed Configuration Management (CM) and Release Management processes, policies, and procedures.
* **Installed and configured Jenkins Plugins to enhance support for project-specific tasks.**
* Kept comprehensive records of all releases and developers' requests through the infrastructure management tool.
* Designed and implemented Subversion metadata structures, including elements, labels, attributes, triggers, and hyperlinks.
* **Managed Subversion (SVN) branch access, enabling parallel development and release activities.**
* Utilized Jenkins as a unified build engine to automate building and deployment processes for applications across various environments such as DEV, QA, UAT, and PROD.
* Successfully implemented, maintained, and provided support for reliable, timely, and reproducible builds for project teams.
* **Integrated AWS cloud services with on-premises technologies, fostering seamless interactions between cloud and local environments.**
* Managed user groups and permissions, and created IAM users, and security groups within Public and Private Subnets using VPC.
* Designed, deployed, and ensured scalability, high availability, and fault tolerance of systems on AWS.
* **Configured JIRA workflows according to the needs of the Configuration Management (CM) team, effectively integrating project management features within the build and release process.**
* Orchestrated project workflows and pipelines using Jenkins as a Continuous Integration (CI) tool.
* Employed ANT and MAVEN as integral build tools for Java projects, facilitating the creation of build artifacts from source code.
* Implemented monitors, alarms, and notifications for EC2 hosts using CloudWatch.

**Optum health\ United Health Care, Albany, NY July 2014 – Sep 2015**

**Build Release Engineer**

**Tools & Environment:** **Ant, SOAP, RESTful, Maven, Jenkins, Linux, Solaris, Python, Shell Scripting, WebSphere,**

**Oracle, Nexus**

* **Provided Configuration Management (CM) and built support for over 3 distinct applications, successfully deploying them to both production and lower environments**.
* Proficient in Python development, specializing in creating Web Services (SOAP, RESTful) using XML and JSON.
* Defined and executed robust CM and Release Management Processes, including Policies and Procedures.
* Installed and configured Jenkins Plugins to cater to project-specific requirements.
* Managed and tracked all release activities and developer requests using Infrastructure management tools.
* **Designed and implemented effective Subversion metadata structures, encompassing elements, labels, attributes, triggers, and hyperlinks**.
* Successfully managed Subversion branch access, enabling parallel development and seamless releases.
* **Configured Jenkins as a unified build engine, facilitating deployments across DEV, QA, UAT, and PROD environments.**
* Collaborated with development teams to transition Ant scripts to Maven, optimizing build processes.
* Proficiently authored and managed pom.xml files, effectively releasing Maven-based Java projects and overseeing Maven repositories.
* Researched, introduced, and incorporated code coverage and unit test plugins within the Maven/Jenkins ecosystem.
* **Managed and sustained Jenkins, orchestrating the CI process and integrating it seamlessly with Ant and Maven for scheduled builds**.
* **Collaborated extensively with development, testing, deployment, and systems/infrastructure teams, ensuring uninterrupted operation of build and test systems within Agile methodologies.**
* Led the installation, configuration, and administration of WebSphere Application Server 6.1 on Solaris Server.