**ANUDEEP SUDHATI**

DevOps Engineer

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**Professional summary**

* Experienced and Certified **AWS Solutions Architect** with a proven track record in designing and implementing scalable and cost-effective cloud solutions, optimizing infrastructure and application performance
* Designed, configured and managed public/private cloud infrastructures utilizing AWS services such **EC2, VPC, S3, ELB, Glacier, CloudWatch, Route 53, IAM, ECS,** and **EBS** and other services and knowledgeable about automating DevOps processes like development, deployment, and release in different environments.
* Expertise in Microsoft **Azure** Cloud Services (PaaS & IaaS), Document DB, Application Insights, Azure Monitoring, Key Vault, Visual Studio Online (VSO), Azure Data Bricks, Azure Data Lake.
* Experience in designing a **Terraform** and deploying it in cloud deployment manager to spin up resources like cloud virtual networks, Compute Engines in public and private subnets along with AutoScaler in AWS and Azure cloud.
* Experience in Setting up the build and deployment automation for Terraform scripts using **Jenkins**. Provisioned the highly available EC2 Instances using **Terraform** and **cloud formation** and wrote new plugins to support new functionality in Terraform.
* Proficient in **Kubernetes** orchestration, with expertise in container management, scaling, and deployments.
* Experience in configuring and optimizing **Kubernetes** clusters for high availability and performance, and well-versed in key Kubernetes concepts including pods, services, and deployments and skilled in implementing containerization best practices within complex microservices architectures.
* Proficient in **Docker** containerization, including the creation, deployment, and management of containers, as well as the optimization of **Docker files** and **Docker images**. This expertise has greatly streamlined software development and deployment processes, enhancing portability, scalability, and overall efficiency.
* Experience in automating server builds, installation, configuration, and change management using automation technologies such as **Chef**, and **Ansible.**
* Experienced in **Jenkins** with a strong command of its technical aspects, including building and orchestrating continuous integration and continuous deployment **(CI/CD)** pipelines, automating software testing, and ensuring efficient delivery of applications. Proficient in plugin configuration, scalability, and integration with version control systems like **GitHub** and **Gitlab** to achieve seamless and automated SDLC workflows.
* Experience in Managing **Nexus** and **JFrog** Artifactory repositories, ensuring reliable and efficient artifact storage, version control, and distribution.
* Developed **python**, and shell scripts for automation of the build and release process. Wrote shell scripts to automate the tasks like removing old logs and files, applying patches and making backup and recovery.
* Strong experience in using build management tools like **Maven, Ant, and Gradle** for the building of deployable artifacts (jar, war, and ear) from source code.
* Hands on experience in monitoring tools like **Dynatrace**, **Splunk**, **New** **relic**, **Datadog** to monitor the resources utilization for each application and server’s health.

**Technical Skills**

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| **Core Technical Skills** | Azure, Amazon Web Services |
| **Containerization** | Docker, Kubernetes, Docker Compose, AWS ECS |
| **Configuration Management** | Ansible Playbook |
| **CI/CD Tools** | Jenkins, Azure DevOps, GitLab, Bamboo |
| **Repository** | Nexus, JFrog |
| **Version Control Tools** | Git, SVN, GitHub, GitLab, Bitbucket |
| **Operating Systems** | MS Windows (Server 2003, 2008,2012R2, 2016, 2019) and Linux (RHEL, Ubuntu) |
| **Web Servers** | Apache Tomcat and Nginx |
| **Database Tools** | SQL, Oracle 12c, RDS, DynamoDB, AWS Redshift |
| **Scripting Languages** | Python, shell scripting, PowerShell |
| **Ticketing Tools** | Service Now, JIRA |
| **Monitoring** | Prometheus and Grafana, ELK Stack |
| **Programming Languages** | Java, Python, C++, C |

**Professional Experience**

**Client: Mercedes-Benz, Financial Services, MI January 2021 - Present**

**Role: AWS DevOps Engineer**

**As a DevOps Engineer at Mercedes-Benz, I led the implementation and enhancement of the DevOps practices to streamline application deployment, increase automation, and improve overall software delivery efficiency. The project focused on integrating cutting-edge technologies and best practices to support the development, testing, and deployment of Mercedes-Benz applications, ultimately ensuring a seamless experience for end-users.**

* Work closely with product owners and solution architects to understand requirements and define best practices and standards around DevOps and Service Resilience.
* Attend Scrum meetings and sprint planning to define and prioritize user stories, features, and other work items.
* Collaborate with product engineering teams to understand their application requirements and ensure seamless integration of CI/CD pipelines into the development process.
* Created highly available and scalable infrastructure in the AWS cloud by using various AWS services like EC2, VPC, Auto scaling, ELB, RDS, and Route53.
* Configured custom AMIs and launched instances with requirements of specific applications setup Elastic load-balancers for different applications to ensure high availability of applications.
* Set up and build AWS infrastructure using various resources like VPC, EC2, S3, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation templates.
* Implemented Large Scale Cloud Infrastructure using AWS resources - IAM, Elastic IP, Elastic Storage, Auto Scaling, VPC, EC2, EBS, APIs ELB, Route 53, RDS, SES, SNS, SQS, OpsWorks, and EMR.
* Written and implemented Templates for AWS infrastructure as a code using cloud formation templates to build test, staging and production environments.
* Used Amazon S3 to backup EBS volumes periodically to save snapshots of data build and configured Jenkins slaves for parallel job execution up Factor and VMware Perl SDK for custom Web-UI-based reports for VMs.
* Hosted static websites in S3 as secondary sites and routed customers to a custom error page if the primary web server is down.
* Implemented IAC (Infrastructure as a code) using cloud formation template for managing infrastructure easy, reliable, and rapid.
* Setting up continuous integration and formal builds using Bamboo with Artifactory repository and resolved update, merge, and password authentication issues in Bamboo and JIRA
* Built and revised AWS services in new VPC (Private and public subnets, and OpenVPN) with multi AZs using Terraform used Shell and Perl scripting to deploy artifacts that are built by Ant, Maven, and Gradle into BOSH.
* Created various Terraform scripts to deploy Kubernetes, Dev, QA, and Pre-production environments in AWS Cloud
* Implemented and configured Terraform templates to create custom-sized VPC, subnets, and NAT to ensure successful deployment of Web applications and database templates on AWS.
* Built Terraform grunt project to manage Terraform configuration file DRY working with multiple Terraform modules.
* Managed Ansible Playbooks with Ansible roles. Wrote several Playbooks and created various roles for applications using Ansible and deployed the Applications, Services on the client hosts.
* Created inventory in Ansible for automating CD process and wrote Playbooks using YAML scripting.
* Developed the Chef Recipes, and cookbooks using Ruby syntax and uploaded them to the master Chef Server using Chef Client tools like Chef-repo.
* Performed Continuous Integrated Delivery (CI and CD process) using Jenkins and performed Build/Release/SCM/DevOps engineer duties.
* Experienced in Google Cloud components, Google container builders, and GCP client libraries and cloud SDKs.
* Worked with build environments such as Jenkins, container management systems such as Docker and Kubernetes Integration tool in Jenkins.
* Container management using Docker by writing Docker files and configuring Kubernetes.
* Created clusters on AWS using Kops.
* Worked on installing Docker & toolbox. Created Docker images using Docker files. Worked on Docker containers, snapshots, images & volumes.
* Worked on creating and documenting POC for helping migrate the current application to Microservices architecture including Docker as the container technology with Kubernetes as an orchestration tool.
* Used Nagios as a monitoring tool to identify and resolve infrastructure problems before they affect critical processes and worked on Nagios Event handlers in case of automatic restart of failed applications and services.

**Environment:** EC2, VPC, IAM, CloudFormation, Docker, AWS, Python, Confluence, Terraform, Github, AMIs, Jenkins, JIRA, Java, Unix, Puppet, Maven, JBoss, Git, Bootstrapping, SVN, Bamboo, Veracode, Sonar.

**Client: Hudson's Bay Company, NY** **December 2019 – January 2021**

**Role: Devops Engineer**

**As a DevOps Engineer at Hudson's Bay Company (HBC), I led a comprehensive cloud-based DevOps transformation project to modernize and optimize the organization's software delivery processes. The project focused on implementing cutting-edge technologies and best practices to enhance application deployment, automate infrastructure provisioning, and improve overall development efficiency.**

* Designing and Implementing AWS cloud-based solutions for on premise applications.
* Migrated and automated cloud deployments using ssl, API’s, Ansible, python and AWS Cloud Formation Templates & AWS security
* Implementing new projects builds framework using Jenkins, Maven as build framework tools.
* Proficient in configuring and managing CDNS solutions to improve website load times, reduce latency, and handle high traffic loads.
* Developed automation scripts or utilized configuration management tools (e.g., Ansible, Puppet) to automate DNS-related tasks, such as provisioning and updating DNS records.
* Experience in utilizing Spring Boot's dependency injection and inversion of control (IOC) features to achieve loose coupling and maintainable code. Proficient in configuring and managing dependencies using Spring's annotations and XML configurations.
* Java programming language with a strong emphasis on Spring Boot framework. Extensive experience in developing and maintaining Java-based applications using Spring Boot
* Implementing a Continuous Delivery framework using Jenkins, Ansible, and Maven in Linux environment.
* IAM developers possess in-depth knowledge and expertise in designing, developing, and implementing IAM solutions to manage user identities and access rights within an organization's systems and applications.
* Experience in integrating GitLab with other tools and services to enhance development workflows. Proficient in integrating with issue tracking systems, chat platforms, code quality tools, and external repositories, among others.
* Used Terraform to automate, manage and provision infrastructure. Hosted webservers and load balancer for provisioning of resources to optimize the project.
* Worked on Docker engine and Docker Machine environments, to deploy the micro services-oriented environments for scalable applications, Docker swarm to host cluster and container scheduling, Docker compose to define multiple container applications
* Implemented Python code using Ansible Python API to automate cloud deployment process, Developed Python modules for Ansible customizations.
* Configured Jenkins to create Docker image for build and performed tests on a Docker container.
* Developed micro service on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Responsible for effective RHEL installation/configuration, operation, and maintenance of Linux systems hardware and software and related infrastructure.
* Supported development teams implementing DevOps pipelines for their team CI/CD requirements.

**Environment**: AWS EC2, Cloud Front, cloud watch, RDS, S3, VPC, SNS, SQS, Cloud Trail, Route 53, Docker, Kubernetes, Terraform, Maven, Jenkins, Gitlab, SVN, JIRA, Oracle SQL, Data Flow, Ansible, Splunk, Shell scripting, Python Scripting and Perl scripting.

**Client: Vanguard, PA** **October 2017 – December 2019**

**Role: Devops Engineer**

**As a DevOps Engineer at Vanguard, I spearheaded a crucial project to automate the Continuous Integration and Continuous Deployment (CI/CD) pipeline for Vanguard's customized advertising and merchandising site and web service. The project aimed to enhance code quality, improve deployment speed, and ensure a reliable and efficient software delivery process.**

* Worked on diverse range of Azure services, including Azure Virtual Machines, Azure Functions, and Azure Logic Apps, to architect, deploy, and manage scalable and cost-effective cloud solutions, optimizing business operations and enhancing system performance.
* Created Azure Automation Assets, Graphical Run books, and PowerShell run books to automate particular processes, deployed Azure AD Connect, configured ADFS authentication flow, and installed ADFS utilizing Azure AD Connect.
* Integrated JUnit tests into the CI/CD pipeline to ensure code quality and reliability with each code commit, reducing integration issues and catching defects early in the development process.
* Implemented Ansible to manage all existing servers and automate the build/configuration of new servers. All servers’ types where fully defined in Ansible, so that a newly built server could be up and ready for production within 30 minutes OS installation.
* Configured Jenkins for Automated Build with Deployment Pipeline. Currently installed Ansible Server and to pick up the Build from repository and deploy in target environments (Integration, QA, and Production).
* Proficient in writing automated tests using JUnit Testing Framework, ensuring faster feedback loops and continuous testing throughout the development lifecycle.
* Expertise in DevOps team, CI (Continuous Integration and, deployment, also provide automated deployments of full application stack using Jenkins/Docker, Ongoing migration of mixed CVS/SVN SCMs over to GIT, done deployment of Docker containers for development, as well as manage by maintaining RHEL 6/ CentOS DNS-related tasks servers run on diversified DevOps systems.
* Used Kubernetes for running/managing containers, images and container snapshots, while providing a platform for automating, deploying, scaling and operations of application containers across clusters of hosts.
* Performed several execution processes such as monitoring using Grafana, ELK (Elasticsearch, Logstash and Kibana) stack, sent notifications using Nagios, used Kibana for visualizing data and navigate the Elastic Stack and leverage the Elastic Maps Service to visualize geospatial data.
* Proficient in DNS, DHCP and IP Addressing, and involved in their installation, configuration, maintenance and implementation of services like NFS, LDAP, Apache SMTP, SSH, HTTP and RPM management, for administrating
* Implemented writing scripts like Bash, Ruby, Perl, Python, Shell and PowerShell, also created test scripts in SOAP
* UI and Restful for Testing Web Services, and PowerShell scripts are created to automate common activities and test them.
* Involved in deployment of application on Azure server by creating packages.
* Worked on Monitoring systems Nagios and Splunk and repository nexus.

**Environment:** Environment: Azure Services (VM’s, functions, auto-scale, blob-storage, Traffic manager, Load Balancing), Terraform, Jenkins, Docker, Azure Kubernetes service, Ansible, Nexus, GitHub, Nagios, Splunk, Python.

**Client: State Farm, Hyd, India**  **March 2016 – July 2017**

**Role: Linux Administrator**

* Designed and implemented Docker-based workflows for building, packaging, and deploying applications, reducing deployment times by 50%, and Utilized Docker containers to encapsulate dependencies, ensuring consistent environments across development, testing, and production phases.
* Used Docker registry, creating Docker images and handling multiple images primarily for middleware installations and domain configuration.
* Worked on Managing the Private Cloud Environment using Chef.
* Integrated Jenkins with version control systems and implemented parameterized and parallelized builds, resulting in a more efficient and reliable CI/CD pipeline.
* Responsible for automating the build process using Jenkins. Maintained tools that automate the building of software releases for an Agile-based software development process.
* Developed shell script for automation of the build and release process and developed Custom Scripts to monitor repositories and server storage.
* Automated various tasks using Shell scripts. OSB export and import scripts, SOA application deployment scripts, and WebLogic Deployment scripts.
* Supported the servers and Applications in the Development, Testing, and Production environment, tuning of kernel parameters, and maintaining and supporting client /server applications on LINUX servers as per the requirement.

**Client: IBM, India Ltd May 2014 – March 2016**

**Role: System Administrator**

* Experienced with managing applications by implementing AWS services which includes AWS services like EC2, S3, EBS, VPC, ELB (Elastic Load Balancing), AMI, RDS, IAM (Identity & Access Management), Route 53, Auto Scaling, Cloud Front, Cloud Watch, OPSWorks, Security Groups, CloudFormation.
* Participated in weekly release meetings with Technology stakeholders to identify and mitigate potential risks associated with the releases.
* Deploying virtual machines from templates and by cloning.
* Creating and deleting of vm’s snapshots.
* Troubleshooting servers’ performances such as issues with CPU Utilization and Memory Utilization.
* Involved in all projects that move to production and work closely with the Data Center, Development, Quality Assurance and Management teams to ensure cross communication and confirmed approval of all production changes.
* Responsible for the development and maintenance of processes and associated scripts/tools for automated build, testing and deployment of the products to various developments.
* Responsible for the Plugin Management, User Management, Build/Deploy Pipeline Setup and End-End Job Setup of all the projects.
* Installed, Configured and Managed Nexus Repository Manager and all the Repositories.
* Hands on Experience in maintaining Puppet modules to manage configurations and automate installation process.
* Followed agile principles and used JIRA for maintenance and Bug development tasks.