ANAND PATTANASHETTI

+917411292959 | GitHub | ashetti.devops@gmail.com | TechBlog | ProfileHub

PROFESSIONAL SUMMARY

Proficient in AWS CI/CD and DevOps tools, I ensure efficient software delivery pipelines through hands-on experience in implementing, and optimizing workflows. My expertise extends to leveraging diverse DevOps tools, fostering automation. By integrating cutting-edge technologies, I drive continuous improvement in software delivery, thriving in fast-paced environments and contributing to transformative projects with dedication to excellence.

WORK EXPERIENCE

DevOps Engineer : Cloud Kinetics Technology Solutions Private Ltd **April 2022 - Present**

1. Developers push code to a shared repo like GitHub, triggering a webhook that starts a Jenkins build. Jenkins pulls the code, compiles it, builds artifacts, handles dependencies, and creates environments. Using AWS EKS, it builds a container and pushes the image to an AWS or Docker registry. Jenkins then deploys the updated container to a Kubernetes cluster for continuous deployment (CD). After deployment, Grafana visualizes the app's performance using data from AWS Monitor, providing insights into system health and stability.
2. Led the deployment of a Java-based banking application, integrating Jenkins, Docker, and Kubernetes to establish efficient CI/CD pipelines. This effort resulted in a 30% reduction in infrastructure costs and a 50% improvement in system performance through advanced containerization and orchestration. The project involved SonarQube for code quality assurance, OWASP dependency checks for enhanced security, and Ansible for infrastructure automation, ensuring a secure and efficient deployment process.
3. Led CI/CD pipeline development with Terraform for infrastructure, Jenkins for GitHub integration, and Maven for consistent builds. Ensured seamless deployment on Tomcat with Docker for scalable containers. This approach boosted deployment flexibility and overall system efficiency.
4. I have extensive experience with AWS, particularly in designing and implementing CI/CD pipelines that improve scalability, reliability, and performance.
5. Proficient in source code management with a proven ability to resolve technical challenges and optimize automation scripts, leading to enhanced operational efficiency.
6. Extensive experience with various cloud services, particularly AWS; contributed to improved scalability, reliability, and performance.
7. Implemented monitoring stacks, alerts, and dashboards for effective system monitoring, facilitating quick responses to dynamic changes.
8. Developed a backend system for a restaurant application using Spring Boot, implementing key features like user authentication, order processing, and database management.

SKILLS

- **AWS Cloud**
- **Linux & Windows**
- **Git**
- **GitHub**
- **CodeCommit**
- **Nexus**
- **Jenkins**
- **CodePipeline**
- **Maven**
- **CodeBuild**
- **SonarQube**
- **Docker**
- **Kubernetes**
- **Hashicorp Terraform**
- **Ansible**
- **Grafana**
- **Prometheus**
- **CloudWatch**
- **DockerHub**
- **Java,SQL**

PROJECTS

Banking Application

1. Deployed a Java-based banking application using Jenkins as the CI/CD tool, achieving a 30% decrease in deployment time compared to manual methods.
2. Configured Docker containers to deploy the application, streamlining the deployment process and reducing the time to launch new instances by 50%.

3. Orchestrated Kubernetes clusters to host the banking application, providing scalable infrastructure and high availability for production workloads.
4. Implemented CI/CD pipelines with Jenkins, automating the build, test, and deployment processes, leading to a 30% reduction in manual effort and improved development cycles.
5. Enabled flexible deployment strategies by setting up Docker and Kubernetes environments, allowing for both standalone Docker containers and Kubernetes-managed clusters. This flexibility increased scalability by 50% in real-time operations.
6. By integrating Jenkins with Docker and Kubernetes, it achieved a robust and efficient automated deployment process, significantly enhancing the team's ability to deliver and maintain the application.

CI/CD Pipeline For Container-Based Workloads: A DevOps Strategy

1. After coding, developers push the code to a shared repository such as GitHub. Frequently merging the code and validating it is one way to ensure CI is error-free. To start the process, a GitHub webhook triggers a Jenkins project build. When code changes are made and committed to the repository, the pipeline gets activated. It downloads the code and triggers a build process.
2. In this step, the code is compiled, artifacts are built, dependencies are sorted out and stored in the repository. Environments are created, containers are built and images are stored for roll out. This is followed by the testing processes. The Jenkins build job uses a dynamic build agent in AWS Elastic Kubernetes Service (EKS) to perform a container build process.
3. A container image is created from the code in source control and is then pushed to an AWS/Docker Container Registry.
4. Using the process of CD, Jenkins deploys an updated container image to the Kubernetes cluster..
5. A Grafana instance provides visual dashboards of the application performance based on the data from AWS Monitor.

End-To-End DevOps Tools On AWS

1. **CodeCommit:** This is your Git-based source code repository in AWS. You use it to store, manage, and track your codebase, allowing for collaboration and version control.
2. **CodeBuild**: This is the continuous integration service that compiles your code and builds artifacts like executables or Docker images. It fetches code from repositories like CodeCommit and provides various build environments.
3. **CodeDeploy:** This service automated code deployment to AWS resources like EC2 instances or Lambda functions. It helps you manage releases, track deployment history, and roll back if needed.
4. **CodePipeline:** This service orchestrates your entire CI/CD workflow. It integrates with CodeCommit, CodeBuild, and CodeDeploy to automate the pipeline from code commit to deployment, allowing you to define stages for building, testing, and deploying your application.

CERTIFICATES

1. **DevOps With AWS : Microdegree**
2. **Java With SQL : Jspider Bangalore**

INTEREST

1. TECH BLOGGING
2. READ BOOKS
3. GYMNASTICS

EDUCATION

BLDEA's V P Dr P.G. Halakatti College of Engineering & Technology *University : VTU Belagavi*
Bachelor of Engineering(CGPA - 6.55)