

MANIDEEP CHITTINENI

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OBJECTIVE

A driven and proactive DevOps Engineer with over four years of experience adept at deploying, managing, and enhancing a range of cloud services across Google Cloud, Amazon Web Services, and Azure platforms. Demonstrates a solid grasp of the software development life cycle and a keen enthusiasm for leveraging technology to foster innovation and ongoing enhancements. Recognized for the ability to architect, implement, and oversee cloud infrastructure through automation methodologies, enhancing operational efficiency, dependability, and scalability.

PROFESSIONAL SUMMARY

- Proficient in crafting and executing Continuous Integration, Continuous Delivery, and Continuous Deployment pipelines across diverse projects and environments.
- Demonstrated expertise in Continuous Integration and Delivery (CI/CD) leveraging tools such as GIT, Jenkins, Docker, and Kubernetes.
- Skilled in managing Incident Management, Problem Management, and Change Management processes.
- Capable of efficiently troubleshooting and resolving bugs and issues while maintaining comprehensive operational manuals and application-related documentation.
- Well-versed in utilizing monitoring tools like Datadog, Grafana, Prometheus, and Kibana.
- Successfully designed and executed the migration of an Enterprise Web application from on-premises to AWS, Azure, and Google Cloud environments.
- A motivational leader with a track record of effectively leading teams, managing resources, and steering projects towards objectives by providing mentorship, motivation, and guidance to surpass defined goals.
- Proficient in version control systems like GitHub, adept at checking out source code, and skilled in cloning and pushing code as per project requirements.
- Experienced in Branching, Tagging, and Merging code deliveries for required releases.
- Specialized in integrating Unit Tests, Code Quality Analysis, and Code Coverage using tools like Junit and SonarQube.
- Utilized Docker to establish efficient Dev and Test environments for Developers and Testers through Docker Build & Compose.
- Proven experience in setting up and maintaining CI/CD pipelines using a range of tools including AWS Code Build, AWS Code Pipeline, Azure DevOps, Google Code Build, Jenkins, and GitHub Actions.
- Proficient in Terraform for infrastructure management and Ansible for automation purposes.

EDUCATION

Master of Science, Major in Information Technology

September 2019 – November 2021

University of the West of England, Bristol, United Kingdom

Course work includes Machine Learning and Predictive Analysis; Big Data; Digital Design and Development; Information Security; Project Management.

Bachelor of Technology in Electronics and Instrumentation Engineering

August 2015 – May 2019

VNR Vignana Jyothi Institute of Technology, Hyderabad, India

TECHNICAL SKILLS

- Cloud Technologies - AWS, Azure, GCP, Oracle
- Programming Languages - Python, Java, C, HTML, CSS, JavaScript
- Scripting - Bash, Python
- Configuration & Provisioning Tools – Terraform, Ansible, Chef, Puppet
- Monitoring Tool - Datadog, Dynatrace, Grafana, Prometheus
- Databases - MySQL, PostgreSQL

CERTIFICATION

- AWS Certified Solutions Architect - Associate
- Google Cloud Platform Associate Cloud Engineer
- Microsoft Azure Fundamentals – AZ 900
- Microsoft Azure AI Fundamentals – AI 900
- Oracle Cloud Infrastructure Developer 2020 Certified Associate
- Oracle Cloud Infrastructure 2019 Certified Cloud Operations Associate

EXPERIENCE

DevOps Engineer, University of Exeter, Exeter

October 2022 – Present

Responsibilities:

- Proficient in designing, implementing, and managing complex multi-tier architectures on AWS Cloud Platform.
- Experience with AWS IAM for managing identities, permissions, and access control across AWS services.
- Expertise in configuring and optimizing AWS S3 for secure, scalable, and cost-effective storage solutions.
- Skilled in utilizing AWS CloudFormation for provisioning and managing AWS resources using Infrastructure as Code (IaC) principles.
- Experience in monitoring and optimizing AWS billing using AWS Cost Explorer and implementing cost-saving strategies.
- Proficient in using AWS Resource Explorer for visualizing and understanding resource relationships and dependencies within AWS environments.
- Knowledgeable in utilizing AWS Systems Manager for automating operational tasks, managing configurations, and maintaining infrastructure at scale.
- Experience in implementing AWS Config to assess, audit, and monitor the configurations of AWS resources for compliance and security.
- Proficient in using AWS Security Hub for continuous security monitoring, threat detection, and remediation across AWS accounts.
- Skilled in designing and configuring AWS VPC (Virtual Private Cloud) for secure and isolated network environments.
- Experience in provisioning, configuring, and managing AWS EC2 instances and other compute resources to support application workloads.
- Familiarity with the AWS Well-Architected Framework and its best practices for designing, building, and optimizing cloud architectures.
- Expertise in designing and implementing serverless architectures using AWS Lambda, API Gateway, DynamoDB, and other serverless services.
- Proficient in utilizing AWS Glue for data integration, transformation, and ETL (Extract, Transform, Load) tasks.
- Experience in building and managing CI/CD pipelines using AWS Code Build and AWS Code Pipeline for automated build, test, and deployment processes.
- Familiarity with AWS Signer for code signing and securing artifacts for deployment.
- Proficient in using AWS CloudFront for content delivery, caching, and acceleration of web applications and APIs.
- Experience in managing SSL/TLS certificates using AWS Certificate Manager for secure communication between clients and AWS services.
- Skilled in configuring DNS services using AWS Route 53 for domain registration, routing traffic, and DNS management.
- Familiarity with Amazon Event Bridge for building event-driven architectures and integrating AWS services and SaaS applications.
- Proficient in utilizing AWS SNS (Simple Notification Service) and SQS (Simple Queue Service) for event-driven messaging and queuing between distributed application components.
- Experience in configuring and managing email communication using AWS SES (Simple Email Service).
- Knowledgeable in orchestrating and automating workflows using AWS Step Functions for serverless application orchestration.
- Familiarity with container services including AWS ECR (Elastic Container Registry), ECS (Elastic Container Service), and EKS (Elastic Kubernetes Service) for containerized application deployments.
- Proficient in deploying applications using AWS Code Deploy for automated deployments to EC2 instances and AWS services.
- Experience in managing and sharing software packages using AWS Code Artifact for secure artifact management.
- Familiarity with AWS Amplify for building and deploying full stack serverless web applications and mobile applications.
- Knowledgeable in implementing real-time data synchronization and offline data access using AWS AppSync.
- Proficient in managing AWS accounts and resources using AWS Control Tower for centralized governance and compliance.
- Experience in auditing and monitoring AWS infrastructure and applications using AWS CloudTrail for logging and tracking API activity.
- Familiarity with AWS Cognito for authentication, authorization, and user management in web and mobile applications.
- Proficient in implementing web application firewall (WAF) rules and policies using AWS WAF for protection against common web-based attacks.
- Experience in managing and securing sensitive information using AWS Secrets Manager for storing, retrieving, and rotating credentials.
- Skilled in encrypting data at rest and in transit using AWS KMS (Key Management Service) for secure key storage and management.

- Experience in deploying and managing containerized applications using AWS Fargate for serverless container orchestration.
- Proficient in defining cloud infrastructure using AWS CDK (Cloud Development Kit) with TypeScript for Infrastructure as Code (IaC) automation.
- Familiarity with GitHub Actions for automating workflows and CI/CD processes within GitHub repositories.
- Experience in version control and collaboration using GitHub for managing source code and project repositories.
- Proficient in tracking project tasks and managing software development workflows using Jira for issue tracking and project management.
- Knowledgeable in configuring OIDC (OpenID Connect) connections for secure authentication and authorization.
- Skilled in using CloudFormation Linter for validating AWS CloudFormation templates and ensuring adherence to best practices.
- Familiarity with Sonar Cloud and Sonar Lint for code quality analysis and continuous inspection of code quality and security.
- Experience in leveraging multi-tier architectures and best practices outlined by AWS Architecture Frameworks such as the AWS Well-Architected Framework for designing secure, scalable, and high-performance cloud solutions.

DevOps Engineer, Procadence Technologies Limited, Brentford

April 2021 – September 2022

Responsibilities:

- Spearhead the setup, maintenance, and continuous improvement of the continuous integration and continuous deployment (CI/CD) infrastructure on Google Cloud Platform to enhance developer productivity and streamline deployment processes.
- Develop and maintain fully automated CI/CD pipelines for multiple environments using tools such as Google Cloud Build, Jenkins, and Travis CI, ensuring efficient build, test, and deployment workflows.
- Architect and implement scalable and resilient multi-tier applications on Google Cloud Platform, leveraging services like Compute Engine, Cloud Storage, and Cloud SQL for optimal performance and reliability.
- Manage and orchestrate Docker containers efficiently on Google Kubernetes Engine (GKE) for seamless deployment and scaling of containerized applications.
- Automate infrastructure provisioning and management tasks using Google Cloud Deployment Manager and Infrastructure as Code (IaC) principles, ensuring consistency and reliability across environments.
- Monitor application and infrastructure health using Stack driver, ensuring proactive identification and resolution of issues to maintain optimal performance.
- Enhance infrastructure security by implementing Google Cloud Identity and Access Management (IAM) policies and Google Cloud Networking best practices.
- Provide technical guidance and support to development teams, assisting in troubleshooting infrastructure issues and optimizing application performance on Google Cloud Platform.
- Document procedures, environment details, and implementation steps using Confluence or similar tools for knowledge sharing and reference.
- Collaborate with engineering teams to design new features and improve existing ones, ensuring alignment with best practices and architectural principles.
- Lead initiatives to automate and optimize development and release processes, driving efficiency and quality throughout the software development lifecycle.
- Stay informed about Google Cloud Platform services and features, actively learning and applying new technologies to support continuous improvement and innovation within the team.

DevOps Engineer Intern, Procadence Technologies Limited, Brentford

June 2020 – March 2021

Responsibilities:

- Collaborate with senior DevOps engineers to set up and maintain the continuous integration and continuous deployment (CI/CD) infrastructure on Azure Cloud Platform, supporting efficient software development workflows.
- Assist in developing and maintaining automated CI/CD pipelines for multiple environments using tools such as Azure DevOps Pipelines, Jenkins, and Travis CI, under the guidance of experienced team members.
- Support the design and deployment of scalable multi-tier applications on Azure Cloud Platform, leveraging services like Azure Virtual Machines, Azure Storage, and Azure SQL Database.
- Assist in automating infrastructure provisioning and management tasks using Azure Resource Manager (ARM) templates and Infrastructure as Code (IaC) principles, ensuring consistency and reliability.
- Participate in monitoring application and infrastructure health using Azure Monitor, Application Insights, and Log Analytics, under the guidance of senior team members.
- Support the implementation of security best practices on Azure Cloud Platform, including Azure Active Directory integration and network security configurations.
- Provide technical support to development teams, assisting in troubleshooting infrastructure issues and optimizing application performance on Azure Cloud Platform.
- Contribute to documenting procedures, environment details, and implementation steps using tools such as Confluence or Azure DevOps for knowledge sharing and reference.
- Stay informed about Azure Cloud Platform services and features, actively learning and applying new technologies to support continuous improvement and innovation within the team.