Prudhvi Keshav

Devops Engineer

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SUMMARY

DevOps and **Site Reliability Engineer (SRE)** with over 5 years of experience in **AWS**, **Kubernetes**, and **Continuous Integration/Continuous Deployment (CI/CD)** automation. Certified **Kubernetes Administrator** with a proven track record in enhancing deployment efficiency by 30% through server provisioning automation. Skilled in optimizing infrastructure for **scalability**, **high availability**, **reliability**, and implementing **Agile** practices to foster collaboration and achieve impactful results. Expertise in **Infrastructure as Code (IaC)**, **cloud-native** solutions, and **SRE** best practices for enhancing system stability and performance.

SKILLS

Containerization	:	Docker, Helm, Kubernetes (Certified Kubernetes Administrator)
Infrastructure Management	:	Terraform, Ansible
Cloud Services	:	AWS (EC2, S3, VPC, Lambda, API Gateway, EKS, ECS, RDS, CloudFormation, IAM), Azure (Azure Kubernetes Service (AKS), Azure Virtual Machines, Azure Storage, Azure DevOps, Azure Functions)
CI/CD	:	Jenkins, ArgoCD, GitOps
Monitoring Tools	:	Prometheus, Grafana
Version Control	:	Git, GitHub
Collaboration & Agile	:	Agile methodologies, Cross-functional teamwork
Site Reliability Engineering (SRE)	:	Incident management, Service-Level Objectives (SLOs), Service-Level Agreements (SLAs), reliability engineering

WORK EXPERIENCE

DevOps Engineer, Wipro, Bangalore   **Dec 2020 - Present**

- Managed **Kubernetes clusters** on **AWS EKS** as a certified **Kubernetes Administrator**, ensuring **high availability**, efficient resource utilization, and secure configurations for 200+ **microservices**.
- Automated **CI/CD pipelines** using **Jenkins** and **ArgoCD**, reducing manual deployment steps by 50% and enabling **blue/green** and **canary deployments**.
- Provisioned **AWS** resources with **Infrastructure as Code (IaC)** using **Terraform**, accelerating infrastructure provisioning speed by 60%.
- Developed reusable **Helm charts** for deploying **microservices**, achieving 95% consistency across environments and reducing deployment failures.
- Utilized **AWS services** such as **EC2**, **S3**, **Lambda**, **ECS**, and **ALB** to optimize infrastructure performance and cost efficiency.
- Performed **Kubernetes administration** tasks, including **node management**, **security configurations**, **role-based access control (RBAC)**, and monitoring health metrics to ensure cluster stability.
- Optimized infrastructure performance, **reliability**, and cost efficiency by leveraging **AWS services** such as **EC2**, **S3**, **Lambda**, **ECS**, and **ALB**.
- Implemented **SRE** best practices, focusing on **incident management**, reducing **Mean Time to Recovery (MTTR)**, and improving **Service-Level Objectives (SLOs)**.
- Collaborated with development teams using **Agile practices** to ensure **continuous integration**, delivery, and system **reliability**.

Consultant, Atos Syntel, Chennai, India   **Sep 2019 - Dec 2020**

- Provisioned **cloud infrastructure** and deployed containerized applications on **AWS** using **Docker** and **Kubernetes**, supporting a rapidly growing **microservices** environment while ensuring **reliability**.
- Assisted in creating **Jenkins-based CI/CD pipelines**, reducing deployment times by 30% and improving code integration with a focus on stability.
- Automated **server provisioning** using **Ansible**, reducing manual setup tasks and minimizing configuration errors by 20%.
- Deployed and configured **EC2 instances** with **AMIs**, implementing robust **security measures** and utilizing **Elastic Load Balancers** for load distribution.
- Managed **CI/CD tools** like **Jenkins** and maintained version control standards with **Git** for streamlined development workflows.
- Configured **IAM roles** and monitored application health with **Amazon CloudWatch**, leading to proactive incident response, improved system uptime, and faster resolution times.

EDUCATION

Andhra University, Visakhapatnam - *B.Tech, Computer Science Engineering*

CERTIFICATIONS

Certified Kubernetes Administrator

Azure Fundamentals

PROJECTS

The Cloud Resume Challenge, , Link

- **Technologies:** AWS (S3, CloudFront, Route 53, Lambda, API Gateway, DynamoDB), Python, JavaScript, Terraform, GitHub Actions
  Developed a cloud-based resume hosted on **Amazon S3** with a custom domain via **Route 53** and **CloudFront** for HTTPS. Integrated a **visitor counter** using **JavaScript** and stored the count in **DynamoDB**. Created a serverless API using **AWS Lambda** and **API Gateway**. Automated infrastructure deployment with **Terraform** and implemented **CI/CD pipelines** using **GitHub Actions** for seamless updates to the front-end (S3) and back-end (Lambda).

ACHIEVEMENTS

Terraform Challenges   **May 2023**

Successfully completed the **KodeKloud Terraform Challenges**, gaining hands-on experience with Infrastructure as Code (IaC) principles and practical use of Terraform to manage cloud infrastructure.

Kubernetes Challenges   **Apr 2023**

Completed the **KodeKloud Kubernetes Challenges**, enhancing proficiency in deploying and managing containerized applications using Kubernetes, including configuring clusters, services, and deployments.