VenkateshPadala

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Summary

Experienced DevOps Engineer with a strong background in automating and optimizing mission-critical deployments in AWS and GCP. Proficient in tools like Jenkins, Terraform, and Ansible to streamline development processes and ensure efficient code deployment. Adopt at managing and monitoring cloud infrastructure services and maintaining high availability in Kubernetes-based container clusters. Successfully implemented robust monitoring and logging solutions using ELK and Grafana, providing comprehensive visibility into system performance. Expertise in GitOps for managing infrastructure as code and integrating automation testing into CI/CD pipelines, enhancing efficiency and reducing manual effort. Passionate about leveraging technology to improve operational workflows and drive continuous improvement.

Technical Skills

Cloud Platforms	:	**GCP**(Compute, IAM, VPC, Storage, functions, Database, Kubernetes, Pub-Sub, cloud build, load balancer) **AWS**(EC2, IAM, VPC, S3, RDS, EKS, load balancer) **Oracle Cloud Infrastructure**(Compute, VCN, Storage, Database, Kubernetes)
DevOps Tools	:	Git, Terraform, Ansible, Docker, Kubernetes, Helm, Jfrog, Terragrunt, HAProxy, Nginx
Virtualization	:	Vmware ESXi, vSphere vCenter
Monitoring & Logging	:	ELK (Elasticsearch, Logstash, Kibana), Grafana, Prometheus, Jaeger Tracing, OpenTelemetry
Scripting Languages	:	Shell Script(bash), Yaml
Database	:	PostgreSQL, Mysql
CI/CD	:	Jenkins, Github Actions, GoCD, Spinnaker
Tools	:	JIRA, Slack, ServiceNow, PagerDuty,
Operating systems	:	Linux (Ubuntu, RHEL), Windows Server

Certifications

- **Microsoft Certified: Azure Fundamentals AZ-900**
- **Google Cloud Associate Cloud Engineer**
- **Google Cloud Professional Cloud Architect**

Work History

Thoughtworks   **Sep 2023 – Tilldate**
Senior Consultant   Bengaluru, KA

- Leading a team of 5, providing guidance and oversight to ensure the effective completion of tasks and successful implementation of projects.
- Collaborated with cross-functional teams, including developers and API teams, to streamline tasks and enhance workflow efficiency, ensuring smooth integration of services and timely completion of project milestones.
- Automated **infrastructure   provisioning** using **Terraform** and **GoCD**, streamlining deployment processes across cloud environments.
- Reduced manual intervention, improving deployment efficiency and enhancing system reliability through continuous integration and delivery (CI/CD) pipelines.

- Implemented a highly available Kong Gateway solution using **AWS EKS**, **Load Balancers**, and **S3** for DR setup.
- Leveraged **Terraform** for infrastructure as code (IaC) and **Helm charts** for seamless deployment of microservices.
- Architected and maintained an **active-active Disaster Recovery (DR)** setup, ensuring **high availability** and **failover** across AWS regions.
- Created automated CI/CD pipelines for deploying Kong updates and custom plugins across multiple environments (DEV, UAT, PROD).
- Led the migration of MuleSoft applications from on-premises infrastructure to **AWS**, ensuring smooth transition.
- Utilized **Terraform** for infrastructure provisioning and **Helm charts** for efficient deployment on **AWS EKS**.
- Implemented and managed **ELK stack**, **Prometheus**, and **Jaeger tracing** in **AWS EKS** for comprehensive monitoring and logging of **Kong** and **MuleSoft** applications.
- Enabled real-time visibility into application performance, ensuring early detection of issues and optimizing system reliability.
- Configured and deployed **Nginx Ingress** as a proxy for API servers, optimizing traffic routing and load balancing in a microservices architecture.
- Enhanced API performance and security by managing access control and SSL termination through Nginx.
- Resolved vulnerabilities across applications and infrastructure, implementing robust security measures to enhance overall system security and compliance.
- Provided on-call support for production-related issues

IBM **April 2020 – Sep 2023**
Infrastructure specialist Bengaluru, KA

- Managed and guided a team of 5 members to successfully complete tasks and implementations, ensuring key performance metrics exceeded client SLAs.
- Designed and implemented automation for infrastructure provisioning and CI/CD pipelines, streamlining deployment processes.
- Utilized Terraform for provisioning infrastructure, including VMs, Cloud SQL, Kubernetes clusters etc...
- Automated infrastructure as code deployment, and managed configurations using Terraform and Ansible.
- Migrated complete CI/CD pipelines from Jenkins to GitHub actions.
- Create pipelines for deploying applications into Kubernetes (K8s) cluster in the form of Docker containers using Spinnaker platform.
- Created and built Docker files and handled end-to-end CI/CD deployments on GKE using Helm charts.
- Wrote and managed Helm charts for Kubernetes deployments, facilitating efficient and repeatable application deployments.
- Implemented production ready, load balanced, highly available, and fault tolerant Kubernetes infrastructure.
- Use Google stack driver for monitoring the logs of both GKE and GCP instances and configured log-based metrics and alerts.
- Migrated Windows and Linux applications from IBM datacenter to cloud using terraform and ansible.
- Implemented DR strategies to ensure high availability for GKE workloads.
- Automated manual tasks using bash scripts to streamline processes and reduce manual effort.

- Resolved vulnerabilities across various systems, ensuring security compliance and robust infrastructure protection.
- Worked on various GCP services like compute instance, GKE, Functions, buckets, cloud run, cloud build, pub/sub, monitoring etc…
- Provided on call support.

Msys Technologies   Sep 2016 – April 2020
Senior Technical Support Engineer   Bengaluru, KA

- Maintain applications in on Prem and AWS infrastructure.
- Taking application and database backups and make sure application is up and running.
- Responsible for managing end-to-end CI/CD automation from development to deployment on local on-prem, and cloud platforms.
- Production deployments and pre/post-deployment validation.
- Responsible for creating and managing AWS services like VPC, EC2, S3, RDS etc…
- Writing Jenkins pipeline codes for various build stages on Jenkins.
- Developed automation scripts in bash to streamline repetitive tasks, optimize workflows, and reduce manual effort.
- Participate in the development of infrastructure and platform roadmaps.
- As a part of the responsibility, maintaining updated documents/runbooks for our NOC team to follow
  SOP and best practices.

Imedx, Inc   Nov 2013 - Sep 2016
Associate Datacentre Operations   Hyderabad, Telangana

- Installed, configured, and managed virtual infrastructure and VMware clusters, enabling HA, DRS, and FT features.
- Created and managed resource pools, virtual machines, templates, and datastores.
- Configured virtual switches, NIC teaming, and performed VM snapshots, cloning, and migrations (P2V, V2V, VMotion, SV Motion).
- Hardened Windows Operating Systems for security compliance and managed patch updates for ESX and Windows servers.
- Monitored and maintained server health, disk, memory, and CPU utilization using monitoring tools.
- Managed Active Directory tasks, including user management and security group configuration.
- Handled incidents ranging from low to critical within SLA, performing root cause analysis and troubleshooting.
- Installed and configured Red Hat Linux OS, maintained UNIX/Linux systems for optimal performance.
- Experienced with services like Java, Apache, MySQL, and shell scripting.
- Conducted firmware upgrades, managed RAID partitions, and coordinated with vendors during hardware failures.
- Applied latest service packs using WSUS and managed servers remotely via DRAC during failures.
- Worked on 24/7 work environment.

Education

Master Of Computer Applications   2012
Under J.N.T.U Kakinada From Sri Vani School of Management   Mylavaram

Personal Details

Name	:	Venkatesh Padala
Marital Status	:	Married
Languages Known	:	English, Hindi and Telugu

Place: Bangalore
Date: **Venkatesh Padala**