

Kiran Kumar Devarasetty

Sr. Cloud DevOps Consultant

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Career Objective:

To work in a challenging environment utilizing my skills and knowledge to the best of my abilities and contribute positively to my personal growth as well as growth of the organization.

Professional Experience:

- Working as a Sr. Consultant since July 2022 in CognizantUK.
- Worked as a Sr. DevOps/Project Lead since July 2021 in HCLUK.
- Worked as Senior Software Engineer for HCL UK From Jan 6th 2018 to July 2021.
- Worked as Software engineer for HCL INDIA from Feb 04th 2015 to 5th Jan 2018.

Technical Skills:

- **Cloud Services:** AWS, Azure
- **Certification:** Certified as AWS DevOps Professional
 - : AZ-900 Microsoft Azure Fundamentals
 - : DP-900 Microsoft Azure Data Fundamentals
 - : AZ-104 Microsoft Certified Azure Administrator Associate
 - : AZ- 400 Microsoft Certified DevOps Engineer Expert
- **Continuous Integration:** Jenkins.
- **Version Control System:** GIT, Bitbucket.
- **Artifactory Repositories:** Nexus, JFROG.
- **Code Quality:** SonarQube.
- **Build Tools:** Maven and ANT.
- **Containerization Tools:** Docker.
- **Container Orchestration Tools:** Kubernetes, EKS.
- **Infrastructure Management Tool:** Terraform cloud, Pulumi.
- **Monitoring Tools:** Elk, Dynatrace.
- **Ticketing Tools:** Jira, Service now.
- **System Administration:** RHEL Linux, Windows RDS Servers.
- **Scripting Languages:** PowerShell, Shell Scripting.
- **Web / Application Servers:** Apache, Tomcat, Nginx.
- **Database:** SQL DB, Oracle DB.
- **Testing:** Penetration testing, PVT Testing and Unit Testing.
- **Project Management Tool:** Confluence, Jira, Service Now, I track

Professional Summary:

- A Cloud enthusiastic team player having about 8 plus years of experience as a DevOps Engineer with proven expertise in Automation, Build/Release Engineering and Software development involving cloud computing platforms like AWS and Azure.
- Experienced in DevOps, AWS, GIT, Jenkins, Docker, Kubernetes, Terraform, ELK, Grafana, Maven, Python, Nexus, Apache, Tomcat, Nginx, SonarQube and Performance Testing.
- Experienced in maintaining Production, Pre-Production, Non-Production, UAT and SIT environments, for development and testing in Unix Platform.
- Certified AWS/Azure Professional Engineer.
- Expertise in working with TIBCO Software Stack, TIBCO Designer, TIBCO Business Works, TIBCOEMS, TIBCO Administrator and IBMMQ.
- Monitoring and debugging the application in all the environments using the tools Prometheus Kibana and Dynatrace.
- Experience in container orchestration engine with Kubernetes.
- Ensuring all the pods and end points are up and running in all environments.
- Proficient with the Configuration Management Tools, implementing CI/CD pipelines and DevOps processes.
- Having good working experience on Shell Scripting, PowerShell.
- Good hands-on knowledge of Source Code Management (Version Control System) tools like Git, Bit Bucket.
- Proficient in developing Continuous Integration/ Delivery pipelines.
- Experience with automation/ integration tools like Jenkins.
- Knowledge in major cloud service providers like AWS & AZURE.
- Working experience using MAVEN build tools for the building of deployable artifacts (jar, war& ear) from source code.
- Strong ability to work individually and within a team in challenging environment.
- Good understanding of defect and change tracking tool such as JIRA, Service Now.
- Pre-production and Post-production activities during the release.
- Team player capable of working independently, willingness and ability to quickly adapt and learn new technologies, along with excellent communication and interpersonal skills.
- Design, Build, Test, Deploy and Maintain reliable, scalable systems and applications to process current and expected future loads.
- Own and contribute towards end-to-end agile DevOps based software development life cycle with end-to-end automation in mind (Tools & Processes).
- Strong in CI / CD pipelines.
- Collaborate with detection researchers (data scientists, malware reversers, threat analysts) to design and propose new ways to collect signals from the edges of the internet.
- Develop, patch, review and release software: from forensic web servers and optimized DNS services to threat mitigation engines, and HTTP proxies.

- Planning, installing and deploying highly available solutions on public cloud.
- Developed the automation tools for deployment, patch updates and disaster recovery.
- Supported the agile software development process among cross-functional teams to ensure smooth product delivery.
- Be a primary person to handle P0/P1 incidents reported in production and staging landscape.
- Worked with development teams across multiple organizations to drive automation, establish software standards, service modularity, testing standards, and deployment/management.
- Automating build, release/deployment, manual processes and workflows.
- Performed incident/alert troubleshooting, problem analysis and provide high quality solutions to technical issues.
- Supported deployment activities of development and production releases including troubleshooting of release blockers such as infrastructure, configuration and code.
- Managed RCA, Incident Process, and Risk Analysis of the cloud services.
- On-call support in cases of issues on production environment.
- Take ownership and resolve the issues related to production environment within expected SLA time frames.
- Participated in building a unique culture that emphasizes lean principles and optimizes for deep work and collaboration.

Project Summary:

Project#1:

Project Name : UOM -University of Manchester
Role : Senior DevOps Solution Architect
Company : Cognizant Technologies UK
Technologies : Azure, CAF, Enterprise landing zones, Terraform Cloud, GitLab, Docker, Shell scripting, RedHat Enterprise Linux.

Roles &Responsibilities:

- Guide customers' technical and investments, maximizing alignment with the platform, and ease of adoption as new services and products become available.
- Designed and delivered solutions that solve for new levels of complexity, scale and performance, and in turn, enable breakthrough innovations. Created and applied frameworks, methods, best practices and artifacts that deliver prescriptive guidance to customers.
- Implementing and configuring the Azure Cloud Adoption Framework (CAF) based on organizational requirements and best practices.
- Collaborated with stakeholders to define and establish governance policies, resource hierarchies, and management groups within Azure.
- Design, implement, and automate CI/CD pipelines for deploying applications and infrastructure in the Azure CAF environment.
- Utilized infrastructure-as-code (IaC) tools such as Terraform cloud to manage infrastructure deployments.

- Streamlined and optimized deployment processes to ensure efficient and reliable application releases.
- Establish and maintain monitoring solutions for applications, systems, and infrastructure within the Azure CAF environment.
- Configure alerting and reporting mechanisms to proactively identify and resolve issues.
- Analyze and interpret monitoring data to identify trends, performance bottlenecks, and areas for improvement.
- Implement security best practices and compliance standards within the Azure CAF environment.
- Ensure that appropriate security measures, such as access controls, Azure RBAC, and Azure Security Center, are in place.
- Collaborate with the security team to conduct regular security audits and address any identified vulnerabilities.
- Investigate and resolve issues related to application performance, infrastructure, or deployments within the Azure CAF environment.
- Respond to incidents, conduct root cause analysis, and implement preventive measures.
- Participate in on-call rotations and provide timely incident response and support.
- Work closely with cross-functional teams, including developers, system administrators, and project managers, to ensure successful delivery of projects within the Azure CAF environment.
- Communicate effectively with stakeholders to provide updates, gather requirements, and address concerns.
- Contribute to knowledge sharing within the team by documenting processes, best practices, and lessons learned.
- Stay updated with the latest Azure services, features, and industry trends related to DevOps and cloud infrastructure.
- Identify areas of improvement in processes, tools, and automation, and propose and implement enhancements.
- Conduct regular performance analysis and optimization to ensure efficient resource utilization.

Project#2:

Project Name : GSK- GlaxoSmithKline Pharmaceuticals
Role : Senior DevOps Consultant
Company : Cognizant Technologies UK
Technologies : Azure, Terraform, Kubernetes, Docker, Shell scripting, RHEL, Dynatrace, Windows RDS Servers.

Roles &Responsibilities:

- Performed Change management, problem management, cloning, Operating system and data backups and recovery strategies.
- Managed projects independently and also deliver as part of larger teams.
- Worked with customer and partners internalizing their context while using your business and technical skills to design solutions based on requirements and constraints.

- Worked towards customer business outcomes, ensuring there is a strong connection between delivery activities and business objectives.
- Owned and completed key tasks and deliverables, and collaborate with others to define and implemented optimal, complete solution based on stakeholders needs.
- Guide customers' technical and investments, maximizing alignment with the platform, and ease of adoption as new services and products become available.
- Designed and delivered solutions that solve for new levels of complexity, scale and performance, and in turn, enable breakthrough innovations.
- Created and applied frameworks, methods, best practices and artifacts that deliver prescriptive guidance to customers.
- Experienced with seamless/automated build scripts used for release management across all environments.
- Installing and configuring Dynatrace agents on servers, containers, and cloud platforms.
- Integrating Dynatrace with deployment pipelines and automation tools for seamless monitoring.
- Integrating Dynatrace into CI/CD pipelines to enable automated monitoring throughout the software development lifecycle.
- Leveraging Dynatrace data to validate application performance during deployments and releases.
- Monitoring infrastructure components such as servers, databases, and networking devices using Dynatrace.

Project#3:

Project Name : Royal mail Group – UK Parcel System
Role : Project lead DevOps Engineer
Company : HCL Technologies UK
Technologies : AWS control Tower, Terraform, Jenkins, Ant, MAVEN, VMware, SonarQube, JIRA, Git, Web logic, BASH, Tibco, Kubernetes, Docker, Shell scripting, RHEL, Windows RDS Servers.

Roles & Responsibilities:

- **Managed AWS Control Tower Infrastructure:**
 - Set up and configured AWS Control Tower, ensuring optimal performance and security.
 - Monitor and maintain the infrastructure, applying updates and patches as required.
 - Collaborate with the operations team to troubleshoot and resolve infrastructure issues.
- **Deployment and Automation:**
 - Designed, implemented, and automated CI/CD pipelines for deploying applications and infrastructure within the AWS Control Tower environment.
 - Utilize infrastructure-as-code (IaC) tool Terraform to manage infrastructure deployments.
 - Streamline and optimize deployment processes to ensure efficient and reliable application releases.
- **Application and System Monitoring:**
 - Established and maintained monitoring solutions for applications, systems, and infrastructure

within the AWS Control Tower environment.

- Configured alerting and reporting mechanisms to proactively identify and resolve issues.
- Analyze and interpret monitoring data to identify trends, performance bottlenecks, and areas for improvement.
- **Security and Compliance:**
- Implemented security best practices and compliance standards within the AWS Control Tower environment.
- Ensure that appropriate security measures, such as access controls and encryption, are in place.
- Collaborate with the security team to conduct regular security audits and address any identified vulnerabilities.
- **Troubleshooting and Incident Response:**
- Investigated and resolved issues related to application performance, infrastructure and deployments.
- Responded to incidents, conduct root cause analysis, and implement preventive measures.
- Participate in on-call rotations and provide timely incident response and support.
- **Collaboration and Communication:**
- Worked closely with cross-functional teams, including developers, system administrators, and project managers, to ensure successful delivery of projects.
- Communicated effectively with stakeholders to provide updates, gather requirements, and address concerns.
- Contributed to knowledge sharing within the team by documenting processes, best practices, and lessons learned.
- **Continuous Improvement:**
- Stay updated with the latest AWS services, features, and industry trends related to DevOps and cloud infrastructure.
- Identified areas of improvement in processes, tools, and automation, and propose and implement enhancements.
- Conducted regular performance analysis and optimization to ensure efficient resource utilization.

Project#4:

Project Name : TES-Tracking Enquiry System

Role : AWS DevOps Engineer

Company : HCL Technologies UK

Technologies : AWS, Terraform, EKS, ELK, RHEL, Jenkins, GIT, Docker.

Roles & Responsibilities:

- Build AWS environment from scratch including VPC, EC2, ELB, Autoscaling, IAM, using Terraform.
- Create service request tickets and change tickets to specify the build of the laas across all configuration management environments.
- Part of the team responsible for the building, configuring and maintenance of cloud infrastructure for new and existing clients.

- Monitoring and updating our infrastructure to ensure it stays secure and scales with the company.
- Using Elastic Kubernetes service (EKS) to orchestrate the deployment, scaling and management of Docker Containers.
- Setting staging and test environment with Docker and microservices (Proof of concept for Production environment).
- Orchestrating and delivery of CI/CD automated pipeline with Jenkins CI, integrating deployments in docker
- Design cloud architectural that reduces security attack surface area.
- In-depth knowledge of technical architectures for public cloud, Private cloud, Network security, Database.
- Deploying and managing configuration management infrastructure on AWS using CloudFormation, and Terraform.
- Experience of hands-on and technical knowledge of working with other AWS products (S3, Edge, EC2, SNS, CloudFormation, VPC).
- Strong knowledge of data migration (to public cloud) and cloud technologies responsible for data migration to public cloud and cloud technologies.
- Serve as an AWS evangelist, consult and provide technical guidance on AWS design, governance, performance, scalability, security, operation and cost control best practice.
- Responsible for leading the customer through technical and organizational challenges of cloud transformation on a day-to-day basis.
- Day-to-day lead the customer through the technical and organizational challenges of cloud transformation.
- A good understanding of AWS well-architected framework.

Project#5:

Project Name :

HS_ES_MC21_SPDA_SW_Dev_13

Role : DevOps Engineer

Company : HCL Technologies

Tools/Technologies: Jenkins, GIT, Nexus, Tibco stack, Cygwin, Linux, tomcat, XL-release.

Roles &Responsibilities:

- Automating all manual tasks of deployment, monitoring.
- Provision and configure VMs in AWS for POC and initial development.
- Install/Configure Project Management environments in AWS.
- Continuous integration and delivery using Jenkins.
- Automated Installation and configuration of TIBCO suite using Shell scripts.
- Migrated entire development and project management environment from AWS to RMG private cloud (ATOS).
- Implemented Continuous Integration and Delivery of BW/BE code using Jenkins pipelines, shell/ant scripts, Nexus, java.
- Created metrics dashboard in ELK to see all the failures and success results.
- Integrated HCL Static Code Analysis tool in Jenkin pipeline to validate BW and BE code before the build.
- Maintain/Monitor overall environmental health.

- Troubleshooting and debugging deployment and runtime issues.
- Supporting the production level2 and level1 support on application issues.

Project#6

Company : HCL Tech
Project Name : ZIFE_RAVE
Role : DevOps Engineer
Technologies : RHEL, Jenkins, GIT, Nexus, Embedded C, Unix shell scripting.

Roles & Responsibilities:

- Automating all manual tasks of deployment, monitoring, log rotation, collection.
- Working closely with dev team to manage CI environment using Jenkins.
- Managing Continuous Integration and Continuous Delivery (CI/CD) using Jenkins and release management using SonarQube.
- Involved in Create/Enhance/automate build and deployment processes for each release and backup, restore and upgrade.
- Deploying, configuring, managing, maintaining, a server machine using Ansible.
- Building the source code using GIT and Jenkins.
- Supporting the production level2 and level1 support on application issues.
- Executing tests, reviewing results and working with development teams to identify the risk areas.
- Perform port scans using Nmap to identify open ports and enumerate the services.
- Design, develop, code, test and debug System software
- Review code and design with Avionic standards.
- Analyze and enhance efficiency, stability, and scalability of System resources.

Educational Details:

- **Bachelor of Technology in Electronics and Communication Engineering** from JNTUA university, India – Division: I class with distinction.
- **Postgraduate Diploma in Software Marketing** from Annamalai University, India

Declaration:

I hereby solemnly affirm that all the information furnished above is true to the best of my knowledge and belief.

Place
London

Signature.
Devarasetty Kiran Kumar