Ashok Kumar Challa

Cloud/DevSecOps Engineer

Location: Bangalore

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Profile Summary

- Certified **AWS Solution Architect** over 4+ years of professional IT experience in Cloud computing, DevSecOps implementation, Build & Release Engineering and Linux Administration.
- Designed end to end automation of infrastructure and continuous delivery of the applications by using **Jenkins**, **Ansible**, **Terraform**, **Kubernetes** and **Helm**.
- Experience on CI (Continuous Integration) and CD (Continuous Deployment) methodologies with Jenkins.
- Good Understanding and implementation experience of CI/CD pipeline, automation programmatically by creating **Jenkins jobs** and pipelines and solving various problems with plugins.
- Experience with installation and configuration of **Docker** environment including **Docker registry hub** for managing different **Docker Images** and deployment of applications inside the software containers.
- Provided consistent environment using **Kubernetes** for deployment scaling and load balancing to the application from development through production, easing the code development and deployment **pipeline** by implementing **Docker** containerization.
- Experience in working with AWS resources like **IAM, EC2, EBS, S3, ELB, VPC, ECS, Lambda, Route 53, Auto Scaling, RDS, EKS, DMS** and experienced in Cloud automation.
- Expertise in configuration and automation **Jenkins, Ansible** and **Docker.**
- Used Ticketing tool **JIRA** to track defects and changes for change management, monitoring tools like **New Relic and CloudWatch** in different work environments in real and container workspace

Technical Skills

Version Control Tool:	GIT, Bitbucket
Operating Systems:	Red hat Linux
Cloud Platform:	AWS
Automation Tools:	Jenkins, Ansible, Docker, Kubernetes, Terraform, Consul, Helm.
Monitoring Tools:	New Relic, ELK, CloudWatch, Grafana
Scripting/Languages:	Shell, YAML, Groovy, Python

Education

2016   MASTER OF COMPUTER APPLICATIONS FROM JNTU, ANANTAPUR
2013   B.SC COMPUTER SCINCE FROM SV UNIVERSITY, TIRUPATI

Core Competencies

Continuous Integration	Branching & merging strategies	Communication and Collaboration
Continuous Delivery	Infrastructure as Code	Deployment Upgrades & Fixes
Micro services	Monitoring and Logging	Configuration Management

💼 Professional Experience

Cloud Consultant **Capgemini India Pvt Ltd., Bengaluru, Karnataka**	**Since July'18**
DevOps Engineer **Webstem Software Solutions Pvt Ltd, Bangalore, Karnataka**	**Nov'16-July'18**

Projects Undertaken:

Project:	McDonalds Corporation
Period	Jan'19- Till Date
Role	Vanguard DevSecOps Engineer
Description:	The Vanguard Engineering Team (VET) is responsible for the continuous development, dissemination, and incorporation of key architectural principles, best practices, and standards for teams to build, deploy, maintain, and evolve software applications so that they align with business goals, and quality requirements such as high availability, high security, high fault-tolerance and isolation, high scalability, high reliability, high performance, high agility, etc
Responsibilities:	

- Highly motivated and committed Cloud and DevSecOps Engineer experienced in Automating, Configuring and deploying instances on AWS cloud environments and Data centers.
- Involved in designing and deploying a multitude of applications utilizing almost all the AWS stack including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, LAMBDA focusing on high-availability, fault tolerance and auto-scaling in AWS by using Terraform.
- Container management using Docker by writing Docker file and set up the automated build on Docker Hub and installed and configured Kubernetes.
- Expertise in Installing, configuring & administering Jenkins on Linux machines along with adding/updating plugins like GIT, Ansible, Sonar, Open test, Deploy to Container, Build Pipeline etc.
- Designing and implementing CI (Continuous Integration) (CI) system: configuring Jenkins's servers, Jenkins nodes, creating required scripts (Shell & Python), and creating/configuring VMs (Windows/Linux).
- Configured SSH, Build Tools, and Source Control repositories in Jenkins. Installed multiple plugins to Jenkins. Configured Proxy to get auto updates.
- Building/Maintaining Docker container clusters managed by Kubernetes, Linux, Bash, GIT, Docker.
- Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
- Using Kubernetes, I have controlled and automated application deployments and updates and orchestrated deployment

Project:	Carnival Cruise Lines
Period	Jul'18 – Jan'19
Description:	Carnival Cruise Line is an international cruise line with headquarters in Doral, Florida. Its logo is the funnel like the funnels found on their ships, with red, white and blue colors. The funnels are shaped like a whale's tail.
Responsibilities:	

- Built deployment pipelines using Jenkins as a frontend for continuous deployment to local staging and test environments and to production environments on demand, using a combination of Ansible, Docker, AWS tools and Shell scripting.
- Deploying application using Jenkins's server and Troubleshoot build and release job failures, resolve, work with engineers on resolution.
- Managed version control tool GIT to version code change to help developers/programmers branch/merge/revert code.
- Working on Docker engine to create and use containers, SaaS-based services for creating and sharing

docker services in docker hub

- Participated in weekly release meetings with Technology stakeholders to identify and mitigate potential risks associated with the releases.
- Review/Merge/ Remove Git Pull Requests to Bitbucket.
- Configuring and deploying artifacts into several environments by using primary automation deployment tool Ansible**.**
- Use Ansible and other configuration management tools to deploy consistent infrastructure code across multiple environments.
- Created Docker images using a Docker file. Worked on Docker container snapshots, removing images and managing docker volumes and experienced with Docker container service.

Personal Details

Date of Birth: 03rd May 1993
Languages Known: English, Telugu & Tamil
Address: Bangalore

Certifications & Rewards

AWS-solution Architect Associate (2018-2023)
AWS Solution Architect professional (2020-2023)
Extra mile reward in excellence customer delivery (q1-2019)
Customer Delight Award (q4-2019)
Recognition of significant contribution to the R6 delivery program (2020)