**Srikanth**

**Email: srikanthb7961@gmail.com**

**Sr. GCP/DevOps Engineer**

**PROFESSIONAL SUMMARY**

* Seasoned GCP DevOps Engineer with over 8+ years of experience in designing, implementing, and maintaining cloud-based infrastructure solutions. Expertise in Google Cloud Platform (GCP), Kubernetes, CI/CD pipelines, and automation tools. Proven track record of optimizing system performance, enhancing security, and reducing operational costs through effective DevOps practices.
* Create Ansible roles and playbooks and Puppet Modules to configure, deploy and maintain software components of the existing/new infrastructure.
* Configure Jenkins to build CI/CD pipeline which includes to trigger auto builds, auto promote builds from one environment to another, code analysis, auto version etc. for various projects.
* Collaborate with development support teams to setup a continuous delivery environment with the use of build platform tool Docker and virtualize the servers on GCP using the Docker; create the Docker files and version control.
* Responsible for ensuring Systems and Network Security, maintaining performance, and setting up monitoring using Cloud Watch, Jager, Kiali, Grafana, Rabbit-MQ & Splunk.
* Experience in deploying fault tolerant environment, cost effective, highly available and secure servers in GCP.
* Create custom sized VPC, subnets, NAT to ensure successful deployment of web applications and database templates.
* Expertise in working with Terraform key features such as Infrastructure as a Code, execution plans, change automation and extensively used Auto scaling launch configuration templates for launching VM instances while deploying microservices.
* Experience in all phases of the software development life cycle (SDLC) with specific focus on the build and release of quality software. Experience in Waterfall, Agile/Scrum Development.
* Experience in installation, configuration, backup, recovery, maintenance, support of Linux and Windows, Administration of Windows, Red Hat Linux, Cent OS and VMware Environments.
* Create Ansible roles and playbooks and Puppet Modules to configure, deploy and maintain software components of the existing/new infrastructure.
* Configure Jenkins to build CI/CD pipeline which includes to trigger auto builds, auto promote builds from one environment to another, code analysis, auto version etc. for various projects.
* Proficiency in writing automation scripts using Shell, Power Shell, JSON, Python to support infrastructure as code and continuous deployment.
* Coordinate different teams across the globe to deploy different builds to different environments on parallel development for multiple projects.
* Highly organized, independent and a quick learner and able to multi-task to accomplish projects.
* Worked with development, production, and QA team for managing certificate updates and renewals for IIS, JBoss.
* Highly organized, independent and a quick learner and able to multi-task to accomplish projects.
* Excellent communication skills, enthusiastic with thrive, determination to do whatever it takes to get the job done and ability to work efficiently in both independent and teamwork.
* Coordinate different teams across the globe to deploy different builds to different environments on parallel development for multiple projects.

**EDUCATION**

* MS in Computer Science: Governors State University, Illinois.
* Bachelor of Technology: Jawaharlal Nehru Technological University, Hyderabad.

**TECHNICAL SKILLS**

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| --- | --- |
| **Cloud** | GCP, AWS |
| **Configuration Management** | Puppet, Ansible, ArgoCD |
| **Continuous Integration** | Jenkins, Git, PySpark |
| **Build Tools** | Ant, Maven |
| **Operating System** | Linux, Windows |
| **Scripting Language** | Bash, Python, Shell |
| **Monitoring** | Rabbit-MQ & Splunk, Jager, Kiali, Grafana |
| **Containerization** | Kubernetes, Docker |

**PROFESSIONAL EXPERIENCE**

**FHLBC July 2022 – Till Date**

**Chicago, IL**

**DevOps/GCP Engineer**

**Responsibilities**

* Collaborate in the automation of GCP infrastructure via Terraform, Cloud Build and Jenkins - software and services configuration.
* Worked on Java Spring Microservices application migration from on-prem to AWS cloud.
* Deployed and configured GCP services including Compute Engine, Cloud Storage, Cloud SQL, and Cloud Functions, GCP Dataflow, PubSub, big query via terraform and Cloud build to support application workloads.
* Analyze all product component issues including Software, Hardware, Database and Network interfaces using various tools and monitoring applications such as Jager, Kiali, Grafana, Rabbit-MQ & Splunk
* Worked on Jenkins file with multi stages like checkout a branch, building the applications, testing, pushing the image to GCR or Nexus repository.
* Set up monitoring and alerting with Stackdriver Monitoring, improving system visibility and reducing downtime by 30%.
* Strengthened security posture by implementing IAM roles and permissions, network policies, and encryption mechanisms.
* Creating a fully automated build and deployment platform and coordinating code builds promotions and orchestrated deployments using Jenkins, Harness and GitHub.
* Enforce best security practices to secure containerized environment using Seccomp, SeLinux and security features of Kubernetes.
* Strong hands-on experience on Kubernetes concepts and implemented features such as HPA (Horizontal Pod Auto Scaling), Kubernetes secrets, readiness probe and liveness probe, Daemon sets, ConfigMaps, etc.
* Deployed Prometheus with Grafana to monitor the Kubernetes cluster and configured alerts firing when different conditions met.
* Ensuring cluster security with image vulnerabilities scanning with Twistlock, container runtime security, orchestration platform security.
* Automated CI/CD pipelines with Jenkins and Harness, leading to a 40% decrease in deployment time.
* Generating Kubernetes YAML via Jenkins and deployed into GitLab. Maintain and track inventory using Jenkins.
* Managed Kubernetes clusters on GCP Kubernetes Engine, optimizing resource utilization and scaling applications based on demand.
* Configuring the applications in ArgoCD and setup ArgoCD to auto sync Kubernetes YAML file to deploy to GKE cluster.
* Implementing new Docker container creation process for each GitHub branch. Working on creation of Docker containers and Docker consoles for managing the application life cycle.
* Extensively working on installation, configuration, and maintenance of RHEL servers
* Developed build and Deployment Scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments.
* Worked in automation, setup and administration of build and deployment tools such as Jenkins, Rundeck and Artifactory.
* Designing and implementing an entire infrastructure to build servers on VMware using Terraform.
* Installed, configured, and managed Ansible server and created playbooks to various application servers and used Ansible to automate repetitive tasks.
* Using Confluence to create, share and discuss content and projects.
* Working with vendors to perform hardware installations, upgrades, and replacements for the applications.
* Have good knowledge on test planning, test data creation, developing test scripts.

**Environment:** GCP, Kubernetes, Docker, Jenkins, GIT, MAVEN, JIRA, Terraform, ArgoCD, Ansible, Shell, VMware, Jfrog Artifactory.

**Aetna Better Health May 2019 – July 2022**

**Atlanta, GA**

**Cloud/DevOps Engineer**

**Responsibilities**

* Designed and implemented CI/CD pipelines using Jenkins and Google Cloud Build, reducing deployment time.
* Managed GCP resources and services, including Compute Engine, GKE, and Cloud Functions, optimizing performance and cost.
* Automated infrastructure provisioning and management using Terraform, leading to reduction in manual configuration errors.
* Collaborated with development teams to establish best practices in version control, code reviews, and release management.
* Configuring the applications in ArgoCD and setup ArgoCD to auto sync Kubernetes YAML file to deploy to GKE cluster.
* Implementing new Docker container creation process for each GitHub branch. Working on creation of Docker containers and Docker consoles for managing the application life cycle.
* Migrated on-premises applications to GCP, improving scalability and reliability.
* Implemented monitoring and alerting solutions using Stackdriver, ensuring high availability and performance of services.
* Implemented CI/CD pipelines for PySpark job deployment and testing using AWS CodePipeline and AWS CodeBuild, ensuring consistent code delivery and reducing deployment time.
* Implemented blue/green deployment strategies for PySpark jobs on Amazon EMR, ensuring zero-downtime deployments and seamless transitions between versions.
* mplemented serverless infrastructure using AWS Glue and AWS Lambda, automating data transformations and processing tasks without the need for manual cluster management.
* Utilized AWS CloudFormation and Terraform to define and deploy scalable infrastructure for PySpark jobs on Amazon EMR, ensuring repeatable, consistent environments.
* Experienced with testing Salesforce platform. Performed SIT, SAT, E2E, UAT & WEB UI testing.
* Using Confluence to create, share and discuss content and projects
* Developed and maintained scripts for automation of routine tasks and infrastructure management.

**Environment:** GCP, Kubernetes, Docker, Jenkins, GIT, MAVEN, JIRA, Terraform, ArgoCD, Ansible, VMware.

**BCBS Feb 2018 – May 2019**

**Omaha, NE**

**DevOps Engineer**

**Responsibilities**

* Led the migration of on-premises workloads to CP, reducing operational overhead by 30%. Developed C/CD pipelines using Jenkins and GitLab CI/CD to automate build, test, and deployment processes, resulting in a 50% reduction in deployment time.
* ﻿﻿ Implemented Infrastructure as Code (laC) using Terraform for provisioning and managing GCP resources, ensuring consistency and reproducibility across environments.
* ﻿﻿ Managed Kubernetes clusters (GKE) for container orchestration, including deployment, scaling, and monitoring of microservices-based applications.
* ﻿﻿ Conducted regular security audits and implemented best practices to ensure compliance with industry standards (e.g., CIS benchmarks) and company policies.
* ﻿﻿ Collaborated with development teams to optimize application performance and troubleshoot production issues in a timely manner.
* Managed version control repositories (Git) and implemented branching strategies for code collaboration and release management.
* Conducted performance tuning and optimization of cloud-based applications and databases.
* Automated provisioning and configuration management using Ansible, reducing manual effort by 40%.
* Maintain and administrate GIT source code tool and create branches, labels and performed merges in GIT and implement and maintain the branching and build/release strategies utilizing Subversion in Linux.
* ﻿﻿Mentored junior team members and conducted training sessions on GCP and DevOps practices.
* Developed build and Deployment Scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments.
* Worked in automation, setup and administration of build and deployment tools such as Jenkins, Rundeck and Artifactory.
* Installed, configured, and managed Ansible server and created playbooks to various application servers and used Ansible to automate repetitive tasks.
* Using Confluence to create, share and discuss content and projects.
* Designing and implementing an entire infrastructure to build servers on VMware using Terraform.
* **Environment:** GCP, Kubernetes, Docker, Jenkins, GIT, MAVEN, JIRA, Terraform, Ansible, Shell, VMware, Artifactory

**Ram info Ltd, Hyderabad, India May 2014 – Jul 2015**

**Linux Systems Administrator**

**Responsibilities**

* To manage the day–to-day tasks, operation and problem-solving of a team to meet with the required service level Agreements and standard.
* Installation of VMware ESX 3.5 and administration of VMs.
* Patches and Package administration for installation of patches following company policy.
* Take care of 1500+ Linux Servers in critical production environment with 24/7 support running in-house applications, web services and databases.
* Coordination with datacenter support teams to perform hardware upgrades (Addition of CPU, Memory and PCI cards).
* Regular performance tuning after installing/ upgrading / deployment of patches and proactive monitoring to maintain a good database server.
* Work on the configuration of server using monitoring tool like Nagios.
* Installation and management on Linux servers for applications like Apache and Tomcat.

**Environment:** Windows 2007, 2008, Linux Red Hat4.0/5.0, HTTP**,** Apache, Tomcat.