**Rajendar**  **Sudheer.r@tekprosol.com**

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DevOps/SRE professional with 12 years of experience in designing, implementing, and managing large-scale, highly available infrastructure and applications. Proficient in cloud platforms, automation tools, and containerization technologies. Strong experience in troubleshooting and problem-solving complex issues in a fast-paced environment.

* Expertise in designing, implementing, and managing highly scalable and reliable infrastructure and services.
* Proficient in using a variety of tools and technologies, including **AWS, Docker, Azure Kubernetes, Ansible, Terraform, Git and Jenkins**.
* Excellent communication and collaboration skills with a focus on delivering results.
* Hands on expertise in implementing DevOps culture through **CI/CD** tools like **Azure Devops**, for Build Automation and Deploy pipelines.
* Hands on experience in provisioning **Selenium Grid** in AKS cluster using docker Containers.
* Experience in deploying **Nginx-Ingress in AKS cluster** and Implementing Ingress rules for applications deployed in AKS cluster in Cloud infrastructure.
* Docker installation and configuration, Docker image creation and management, Docker container orchestration, Continuous Integration and Delivery (CI/CD) with Docker.
* Provisioning Azure infrastructure using **ARM and terraform,** integration of azure infrastructure.
* Good understanding on distributed systems with cloud Infrastructure.
* Orchestrating containerized applications using Kubernetes. Cluster management, Application deployment, Troubleshooting and support.
* Integration with azure key vault and AKS cluster by using CSI driver (CRD-Custom Resource Definition).
* Experience in advanced Kubernetes patterns (blue/green updates, stateful workloads, and writing custom controllers) to contribute to this existing DevOps and cloud architecture.
* In-depth understanding of the principles and best practices of Software Configuration Management (SCM) processes, which include compiling, packaging, deploying and Application configurations.
* Expertise in Java builds tools Maven and ANT for the building of deployable artifacts such as (jar, war & ear) from source code.
* Experience in using project management tool JIRA.
* Hands-on knowledge in installing and configuring monitoring tool like **Prometheus & Grafana**
* Good understanding on SaaS,PaaS applications.
* Experience in design and development of Web service which includes of handling RESTFUL Web services and J2EE applications.

**Education Qualifications**

Bachelor’s degree in Bio-Informatics (B.Tech:2006-2010) from karunya university, Coimbatore

**Certifications:**

* Microsoft certified Azure fundamentals AZ-900.
* Gitops Fundamentals for Argo CD

**Open-source contributions:**

Contributing to Kubernetes (k8s) open-source project in features and release process.

**Technical Skills:**

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|  **Version Control Tools**  | **GIT** |
|  **Build Tools & code quality tool** |  **Maven, SonarQube, Ant,BlackDuck,kaniko,Helm** |
|  **Continuous integration & Deployment tools** |  **Jenkins, Ansible, chef , Docker, kubernetes, GitLab ,Argo CD, Agro rollouts ,git ops.** |
|  **Repositories** |  **Jfrog , Artifactory,Azure Acr** |
|  **Scripting Languages** |  **Python, Bash shell script, Groovy** |
|  **Languages** | **Sql,Java ,J2EE,Java ,JSF** |
|  **Web Servers** |  **Apache, Tomcat, WebLogic,**  |
| **Databases** | **Oracle 11g,12C** |
| **Operating Systems** |  **Windows, Linux, Unix, Red Hat, Ubuntu** |
| **Virtualization Tools**  | **Virtualization Tools VMware, Vagrant,VPN** |
| **SDLC** | **Agile, SCRUM Methodologies, Waterfall** |
| **Monitoring**  | **Prometheus and grafana,****PromQL, custom template**  |

**WORK EXPERIENCE**

**Client: Bank of America, NJ**  **July 2023 to till date**

 **Senior Devops engineer**

 **Responsibilities:**

* Spearheaded the migration of on-premises infrastructure to Azure, resulting in a reduction in operational costs and a 50% improvement in system reliability.
* Developed and maintained infrastructure as code (IaC) using Terraform, ensuring consistent and reproducible environments across development, testing, and production.
* Collaborated with security teams to implement robust security measures, achieving compliance with industry regulations, and improving overall system resilience.
* Automated routine tasks and manual processes, resulting in a 25% increase in team productivity.
* Cloud 2.0 Analysis and migration from on premises.
* Quartz Azure monitor from on premises hosts by using AMPLS connection.
* Azure storage Explorer access and repaving blob containers
* Accessing Blob storage from App Host VM by using qz-cops utility
* Modelling TFE based on Quartz services that need to bought up in Azure .(keyvaults ,LB,VM VMSS and storage).
* Design consideration for Hugs schedulers for creation, repaving, and destruction.
* OCI Image repo and creation images by using pod man.
* Implemented continuous integration and continuous deployment (CI/CD) pipelines, reducing deployment times significantly and enhancing the release process.

 **Environment: Bit Bucket , Terraform , Azure Cloud ,RHEL.**

**Client: Morgan Stanley, NY**  **August 2022 to June 2023**

**Site Reliability Engineer**

 **Responsibilities:**

* Using CICD tools to automatically perform deployments using team city leading to a 20% reduction in build time.
* Implementing PI planning activities using Jira and creating sprint backlog depending on team capacity and load.
* Deploying observability tools using **Ansible** configuration management tool which reducing system downtime by 15% and improving overall system performance.
* Led the migration of legacy applications to **Kubernetes** based microservices architecture, resulting in improved scalability, availability, and fault tolerance.
* collaborated closely with development teams to optimize application performance and troubleshoot production issues in Kubernetes clusters, resulting in improved application reliability and uptime.
* Designing and building unified observability platforms that enable companies to use the sometimes-overwhelming amount of available data (metrics, logs, and traces) to determine quickly if their application or service is operating as desired.
* Expertise in deploying and using open-source observability tools in large-scale environments, including **Prometheus, Grafana.**
* Integra;tion **kafka** topics with loki and implemented overall log aggregation framework .
* Demonstrated customer engagement and collaboration skills to curate custom dashboards and views, and identify and deploy new tools, to meet their requirements.
* Designed, executed, and managed OpenShift Kubernetes-based containerization solutions for complex applications, leveraging OpenShift Container Platform for scalable, high-performance deployments.
* The drive and self-motivation to understand the intricate details of a complex infrastructure environment.
* Setting up **GitOps** repository on **OpenShift**, for CICD process and deploying observability platform.

 **Environment: Team city, docker, prometheus , grafana, loki, jaeger,OpenShift,gitops, Argo CICD**

 **Client: GlaxoSmithKline, Bay Area, SF July 2021 to July 2022**

**Associate Consultant**

 **Responsibilities:**

* Provisioning self-hosted containerized agents by using docker containers into AKS Cluster and rancher Clusters.
* Using CICD tools to automatically perform canary analysis and roll out changes after passing automated gates using azure devops.
* Implementing PI planning activities using Jira and creating sprint backlog depending on team capacity and load.
* Documenting the entire process by using confluence.
* Building Docker Images using kaniko build tool for eliminating docker runtime dependency in aks clusters.
* Designing and building unified observability platforms that enable companies to use the sometimes-overwhelming amount of available data (metrics, logs, and traces) to determine quickly if their application or service is operating as desired.
* Expertise in deploying and using open-source observability tools in large-scale environments, including **Prometheus, Grafana.**
* Selenium grid installation into aks cluster using helm charts and used spinnaker for deployment.
* CSI-driver installation for azure key-vault integration with aks cluster.
* Deploying **nginx-Ingress** into AKS cluster and deploying ingress rules by configuring DNS names and tls certificates into AKS cluster.
* Deploying Stack-storm using helm-charts into aks clusters.
* Integrating stack-storm with pipe-gen framework.
* Enabling https over stack-storm deployment.
* Creating packs and deploying with stack storm containers.
* Demonstrated customer engagement and collaboration skills to curate custom dashboards and views, and identify and deploy new tools, to meet their requirements.
* The drive and self-motivation to understand the intricate details of a complex infrastructure environment.

 **Environment: Azure Devops, Azure, power shell, Docker, Kubernetes**

**Client: PricewaterhouseCoopers,Tempa, Florida Oct 2019 to July 2021**

**Senior Consultant.**

 **Responsibilities:**

* Managing all phases of Build and Release activities, dependency management and deployment strategy in azure cloud.
* Provisioning of new Azure cloud resources through ARM and terraform templates.
* Understanding of Cloud concepts – IaaS, PaaS, SaaS.
* Understanding of the following Azure Resources and Services: VMs, Web Apps, Container Registry, Blob Storage, Event Hubs, Key Vault, Application Gateway, API Management, Traffic Manager, AZURE devops.
* Expertise in DevOps, Release Engineering, Configuration Management, Automation. It includes Maven, Jenkins, Chef, Git, GitHub, Docker, Tomcat and Linux etc.
* Strong hands-on knowledge of Designing & implementing Distributed and Centralized version control systems, SCM topics of Branching, Tagging and Merging.
* Managing and supporting different environments in Microsoft Azure cloud.
* Managing and deploying custom scripts.

 **Environment: Azure Devops, Azure, power shell,Rancher,Vault**

**Client: Verizon, BayArea, SF April 2019 to Oct 2019**

 **Consultant**

 **Responsibilities:**

* Managing all phases of Build and Release activities, dependency management and deployment strategy.
* Builds and deploy code to different environments.
* Provisioning EC2 Instances with Jenkins.
* Automation testing using selenium grid with docker on EC2 instance.
* executed the complete CI-CD pipeline using Jenkins.
* Creating tag, branch & setting up projects & build plans in CI tool (**Jenkins**).
* Maintenance of **ANT**&**Maven**, **Shell scripts** for safe builds and deploys.
* For on boarding existing application, performing knowledge transition from development team to SCM team on build and deployment process.
* Managing docker Images with **Portainer.**
* Deployed development and QA environment through Docker.
* For new applications, work with development to get the requirements of application build and deployment process.
* Enforced the Release practice and strategized pushing builds into QA / UAT /Pre-Production/ Production stages.
* Troubleshooting of build errors in Jenkins for both the Software Configuration Mgmt. team and the development team.
* Jenkins was used as a continuous integration tool for automation of daily process and used SQL queries to check the data integrity on an Oracle database.
* Validated best practices of agile methodology to speed up the delivery process efficiently.
* Managing day to day Build & Release Activities and CM Support.
* Involved in Deployment of the application using **AWS EC2 instances**
* Responsible for nightly and release builds and regression testing.
* Configuring RabbitMQ for messaging service.
* Extensively used version controlling tools like Git, SVN.

**Environment: Ansible, Python scripts, Ubuntu, Jenkins, Maven, AWS EC2, Docker.**

**Client: American Arbitration Association, NewYork (USA) March 2016 to April 2019 Senior Software Engineer,**

 **Responsibilities:**

* Oversaw the deployment automation initiative, increasing deployment frequency by 50% and reducing deployment failures by 20%.
* Established and maintained monitoring solutions, resulting in a 15% reduction in mean time to resolution (MTTR) for production incidents.
* Managed all phases of Build and Release activities, dependency management and deployment strategy.
* Builds and deploy code to different environments.
* Creating tag, branch & setting up projects & build plans in CI tool (Jenkins).
* Maintenance of **ANT**&**Maven**, **Shell scripts** for safe builds and deploys.
* For on boarding existing application, performing knowledge transition from development team to SCM team on build and deployment process.
* Deployed development and QA environment through Docker.
* Deploying applications into OCI (WebLogic server).
* Migrating application from on Premises to OCI
* Performed configuration management of remote servers using **Ansible**.
* Expert in creating **Ansible** playbooks for CM.
* For new applications, work with development to get the requirements of application build and deployment process.
* Troubleshooting of build errors in Jenkins for both the Software Configuration Mgmt. team and the development team.
* Jenkins was used as a continuous integration tool for automation of daily process and used SQL queries to check the data integrity on an Oracle database.
* Involved in Deployment of the application using **Tomcat**& **Web Logic servers.**
* Maintaining and ensuring stringent adherence to quality standards, norms & practices, identifying gaps and taking corrective administrative actions.
* strategized nightly and release builds and regression testing.
* Environment of Java, on Linux.
* Resolving Build issues.
* Extensively used version controlling tools like Git, SVN.

 **Environment: Ansible, Python scripts, Ubuntu, Jenkins, Maven, Tomcat Application Server, Docker.**

 **Client: US Foods, Rosemount, IL Nov 2014 to March 2016**

 **Software Engineer II,**

 **Responsibilities:**

* Work closely with developers, QA teams, Product owners and other stakeholders to deploy efficiently on various Demand ware sandbox instances.
* Active participation in Build and release process.
* Experience in checking out code from **SVN,Git** and **building EAR, WAR** and **JAR’s** using **ANT**&**Maven**.
* Experienced in all SCM activities like Branching, Tagging and Merging etc.
* Understanding of all major functionalities of Subversion and introduced some of best practices in parallel development environments.
* Automated the backup of SVN repository by using crontab
* Educating developers/QA on CM tools and Build environment.
* Managing various environments like QA, staging and production.
* Building and releasing the source code to these environments.
* Handling all phases of Build activities.
* Monitoring daily builds using continuous integration tool **Jenkins**.
* Configuring nightly builds for QA environment through CI tool Jenkins
* Debugging compilation and runtime issues in build failures.
* Deployment of different applications on application servers like **Tomcat**.
* Ensure completeness of release notes and publish release package communication.
* Perform smoke/sanity tests for the applications deployed and also troubleshoot the application for the issues that arise as part of the smoke test.
* strategized releasing the product internally.
* Attended daily stand-up meetings, bug-scrub meetings, Sprint planning meetings and Weekly release health check-up meetings as best practices of agile environment.

**Environment: Shell scripts, Ansible, GIT, Jenkins, Web logic Server.**

 **Client: Sony, California August 2012 to Oct 2014**

 **Software Consultant**

 **Responsibilities:**

* Hands on experience in Orchestration, Migration, Disaster Recovery, HA Proxy, Nginx.
* Experience in handling Docker Container, Domain Registration, Web Application, Network File System, Storing Files, MySQL, NoSQL, and Continuous Deployment Pipeline.
* Installation of 11g,12C Database on Linux Platform.
* Creation of Database using DBCA Utility.
* Manual Creation of Database using Script.
* Experience in handling Docker Container, Domain Registration, Web Application, Network File System, Storing Files, MySQL, NoSQL, Maria DB, PostgreSQL, SES, Cloud Watch and Continuous Deployment Pipeline.
* Tablespace & Data file creation and Maintenance by Adding and Resizing data file if needed.
* Creating Users, Profiles Granting specific Privileges and roles to the Users.
* Implementation of Branching, Labeling and Merging strategies for all products with every release.
* Work closely with the Development/QA/Support teams to ensure efficient release including builds, installs, patch creation, test verification and deployment.

 **Environment:** Linux