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**Sr. Cloud DevOps Engineer/SRE/Platform Engineer/Infrastructure (IAC) engineer**

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**Professional Summary:**

* Overall, 9 Years of experience in DevOps, Build & Release Management, Software Configuration activities, Deployment activities and Ansible automation for software applications.
* Experience on complete software development life cycle (**SDLC**) with software development models like **Agile, Scrum Model, JIRA**, and **TTD**.
* Understanding the client environment, Administrating, and creating solutions using CI/CD, GIT, **Dockers**.
* Expertise to setup, configure continuous build processes using **Jenkins, GIT, SVN and Maven.**
* Experience in various source code management activities using GIT involving **branching, merging strategy, daily merges and remote repository.**
* Experience working on several Docker components like Docker Engine, Hub, Machine, Compose and **Docker Registry**
* Experience in designing, provisioning Virtual Machines through Infrastructure as a Code, Migration of On-Premises applications to cloud using **Microsoft Azure Cloud IaaS, PaaS** and **Microsoft Azure DevOps.**
* Used **Docker** and Open Shift to manage micro services for development and testing.
* Developed a continuous deployment pipeline using Jenkins, **Ruby**/shell scripts.
* Experienced in managing and administrating **Source Control Management** (**SCM**) systems for software development projects.
* Expertise in using SCM tools such as **Git**, **SVN** (Subversion) and perforce for version control and collaborative development.
* Experience in implementing configuration management tools such as **Ansible** and **puppet**.
* Extensively worked with automation tools like **Jenkins, Docker, Bamboo, TeamCity** and **Build Forge** to implement the End- to-End Automation.
* Designed, configured, and managed public/private cloud infrastructures utilizing Amazon Web Services (**AWS**) including **EC2**, Auto-Scaling in launching EC2 instances, Elastic Load Balancer, Elastic Beanstalk, **S3**, **SNS**, **SQS**, **Glacier, RDS, VPC, Route53, Cloud Watch, IAM.**
* Experience in building and deploying web applications in Apache Tomcat.
* Used Ansible to automate the **Cassandra** Tasks such as new installations/configurations and Basic Server Level Checks
* Experienced in Continuous Integration and Delivery of Web Apps using **Azure Pipelines.**
* Expertise in using Artifactory Repository Managers like **Nexus** for Maven builds.
* Utilized bash scripts to wrap **java** and **python** modules to schedule jobs in CA Autosys.
* Automating the build and deployment processes using a web-based management system to run Ant and PERL scripts in both a Windows-based and **UNIX environments**

**Technical Skills:**

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| **Cloud Environments** | AWS, Azure |
| **Operating Systems** | Red Hat Linux, CentOS 6 & 7, Ubuntu, Windows |
| **Web/ Application Servers** | Apache Tomcat, JBoss and Nginix. |
| **Databases** | MySQL, MySQL, Mongo DB, RDS, Elastic cache |
| **Version Control Tools** | Subversion, TFS, GIT, GIT HUB, SVN, Bitbucket. |
| **Configuration Management** | Ansible, Chef |
| **CICD Tools** | Cloud Bees Jenkins/Hudson, Team City, Maven, SonarQube, Nexus Artifactory, Azure DevOps pipelines, AWS code pipelines |
| **Container Tools** | Kubernetes, Docker, OpenShift |
| **Monitoring Tools** | Grafana, Splunk, AWS cloud watch, Zabbix |

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| --- | --- |
| **Scripting Languages** | Python, Golang, groovy, Unix Shell scripting, Power Shell, JSON, YAML. |
| **Bug Tracking & Testing tools** | JIRA, Selenium. |
| **Networking** | TCP/IP, DNS, VPN, DHCP, WAN, HTTP, LAN, Networking, F5 load balancer. |

**Education:** Bachelors in Electronics and Communications Engineering, **JNTU University**, Hyderabad, India, 2010- 2014.

Masters in Information Systems from **Wilmington University,** Delaware, USA, 2016-2017

**WORK EXPERIENCE:**

**HCL/Fiserv – Alpharetta, GA Feb 2024 – Till Date Sr. DevOps Platform Engineer**

**Responsibilities:**

* + Responsible for Administering and maintaining **Jenkins** and Jenkins slaves on windows and Linux (Debian/Ubuntu).
  + Created many **Jenkins slaves** and set up jobs on master to run on slaves.
  + Setup **SCM** Polling for Immediate Builds with Maven and Maven Repository (Nexus Artifactory) by installing

Jenkins Plugins for GIT Repository.

* + Developed **PowerShell** scripts and ARM templates to automate the provisioning and deployment process.
  + Implemented and managed branching and merging strategies, including **Git** Flow, Feature Branching, and Trunk- Based Development, to streamline development workflows.
  + Implemented cluster services using Docker and Azure **Kubernetes services** (AKS) to manage local deployments

in Kubernetes by building a self-hosted Kubernetes cluster using Jenkins CICD pipeline.

* + Developed Python and shell/bash scripts for TC Server/Tomcat web application servers and automation of the build and release process and to automate certain processes for the smooth process of build tool like Maven.
  + Worked on **migration** of **on-premises** infrastructure to **Azure** cloud environment **using Puppet** for configuration management and automation.
  + Designed and implemented **Puppet manifests** and modules to automate the provisioning, configuration, and management of Azure resources, ensuring consistency and reliability across environments.
  + Collaborated with cross-functional teams to assess on-premises infrastructure requirements and define migration strategies, ensuring minimal disruption to ongoing operations.
  + Developed custom **Puppet modules** to integrate with third-party tools and services, such as monitoring systems and version control repositories, enabling seamless automation workflows and improving overall system visibility.
  + Implemented **Puppet Enterprise** features, including role-based access control (RBAC), reporting, and orchestration capabilities, to enhance governance, compliance, and scalability of Puppet infrastructure.
  + Automated routine tasks and workflows using **Python** scripts, enhancing operational efficiency and reducing manual effort.
  + Implemented performance optimization techniques in **Python** applications, reducing execution time and resource

consumption.

* + Administrating and supporting company’s **Kubernetes** infrastructure, ensuring it is secure, resilient and performance and responsible for complete **DevOps** activities and coordinating with development team.
  + Working as **Kubernetes Administrator**, involved in configuration for web apps, Azure App services, Azure Application insights, Azure Application gateway, Azure DNS, Azure traffic manager, App services.
  + Integrated **ArgoCD** with Git repositories and **CI/CD pipelines** to automate deployment processes.
  + Preferably Azure by creating multilevel **hybrid pipeline** of CI & CD helped clients to achieve Kubernetes platform.

**Environment:** Linux, Shell scripting, GIT, Jenkins, Ansible, puppet, Grafana, Prometheus, Azure, AgroCD, Kubernetes.

**Amdocs/AT&T – Alpharetta, GA Feb 2020 – Jan 2024 SR. Cloud DevOps Engineer/SRE**

**Responsibilities:**

* Worked on **AT&T stratum kits** for developing **infrastructure** on AWS and Azure clouds using **terraform**.
* Wrote **Terraform configuration files** (.tf) to automate the provisioning and to create infrastructure in **Azure cloud**

for services like Resource Group, private endpoints, VMs, AKS Clusters, VNet and subnet.

* Developed **Azure DevOps CI/CD pipelines** to automate the deployment of Terraform configurations, sensible playbooks and Helm charts.
* Automated **Terraform** plan and apply stages within CI/CD pipelines to ensure consistent and reliable deployments.
* Integrated **Azure Functions** with **Azure Pipelines**.
* Utilized **Terraform workspaces** to manage different environments (dev, test, prod) from a single codebase, ensuring consistent infrastructure across stages.
* Automated infrastructure provisioning using **Terraform** alongside service meshes like **Istio** and **Consul**, enabling scalable microservices architecture.
* Managed deployments in **Kubernetes** by building an **Azure Kubernetes** cluster using Azure DevOps CICD pipelines
* Proficient in orchestrating containers with **OpenShift**, leveraging **Kubernetes** for automating deployments, scaling, and managing containerized applications.
* Integrated **OpenShift** with **azure DevOps pipelines** to automate application builds, testing, and deployment, significantly reducing time-to-market.
* Implemented **OpenShift Service Mesh** to manage, secure, and observe microservices with minimal configuration.
* Setting up new repos for various **GITHUB** branches
* Set up log collection from AKS clusters using **Azure Monitor** Logs to centralize logs from Kubernetes pods, containers, and infrastructure components. Used **Azure Log Analytics** to analyze log data, identify patterns, and troubleshoot issues impacting AKS applications and services.
* Configured **Kubernetes liveness** and **readiness** probes to detect and remedy applications running long periods of time eventually transition to broken states and cannot recover**.**
* Extensively worked with Scheduling, deploying, managing **container replicas** onto a node using Kubernetes.
* Developed **python** scripts for **data extraction**, transformation, and loading (**ETL**), streamlining data processing operations.
* Developed Python scripts to interact with **RESTful APIs**, retrieving and processing data from external services.
* Built and maintained web applications using **Python frameworks** such as **Django** and **Flask**, ensuring high performance and security.
* Implemented authentication mechanisms (e.g., **OAuth**) to securely access **API** endpoints.
* Created **Python** scripts to read, write, and manipulate various file formats, including CSV, JSON, XML, and Excel.
* Configured continuous integration workflows in **GitLab CI**, enabling automatic triggering of builds and tests on code commits and merges.
* Optimized **GitLab CI** pipelines to reduce build times and resource usage, enhancing overall efficiency and minimizing bottlenecks in the development workflow.
* Utilized Python libraries such as **Pandas**, **NumPy**, and **Matplotlib** for data analysis, manipulation, and visualization.
* Created Python scripts to interact with relational and **NoSQL** databases, performing **CRUD operations** and data migrations.
* Created **Ansible playbooks** and **roles** to set up VMs with users, groups and install applications on multiple VMs for zookeepers, kafka applications.
* Integrated **Ansible** playbooks and roles into **Azure DevOps pipelines** for automated CI/CD (Continuous Integration/Continuous Deployment) of Zookeeper and Kafka clusters.
* Integrated **Ansible Tower** with CI/CD pipelines, such as Jenkins, to automate the deployment and provisioning processes.
* Implemented and managed role-based access control (**RBAC**) within **Ansible Tower** to ensure secure and appropriate access to resources.
* Configured and managed job scheduling in **Ansible Tower** to automate routine tasks and ensure timely execution of critical operations.
* Optimized **Kafka cluster** performance by fine-tuning configurations, managing partitions, and ensuring efficient resource utilization.
* Implemented security best practices for **Kafka**, including SSL/TLS encryption, **Kerberos authentication**, and access control policies.
* Set up monitoring and alerting systems for **Kafka clusters** using tools like **Prometheus**, **Grafana**, and **Confluent**

Control Center.

* Daily monitoring production servers using **Grafana** and **Prometheus** which is integrated with Kubernetes, exceptions and report to the team if something happens during standups.
* Integrated **Splunk** with **Prometheus** to collect and analyze metrics, logs, and events from various sources.
* Developed custom dashboards in **Grafana** to visualize **Prometheus** metrics and **Splunk logs**, enabling real-time monitoring and actionable insights for different stakeholders.
* Planned and executed migration strategies for seamless transitions between **Kafka versions** and **configurations**.

**Environment:** Linux, Shell scripting, GIT, GitLab CI, Jenkins, Ansible, Azure, Docker, Kubernetes, python, Terraform, Helm Charts, Azure DevOps.

**Randstad/St. john's University, NY July 2017 – January 2020 DevOps Engineer**

**Responsibilities:**

* Used **AWS CloudFormation** templates to create infrastructure
* Created and maintained **CloudFormation** templates to define AWS resources such as EC2 instances, VPCs, S3 buckets, RDS instances, and more.
* Hands on experience with **AWS services** such as EC2, ELB, Auto-Scaling, S3, IAM, VPC, Route53, RDS, DynamoDB, CloudTrail, CloudWatch, CloudFormation, CloudFront, EMR.
* Developed and enforced **SCM** best practices, including commit message conventions, code branching policies, and repository structures.
* Involved in design, implementation and modifying the **Python code.**
* Worked on creation of **Ansible** manifest files to install tomcat instances and to manage configuration files for multiple applications.
* Writing and developing **groovy scripts** and contributing to JPL (**Jenkins pipeline libraries**) for automating the deployment process seamlessly.
* Worked with **helm**3 for deployment manager to use charts and templates for **Kubernetes cluster** deployments.
* **Configured and managed WebLogic Server clusters** for high availability, load balancing, and fault tolerance.
* **Deployed and monitored Java EE applications** on WebLogic Server, ensuring smooth operation and minimal downtime.
* **Performed regular WebLogic server health checks**, including JVM tuning, memory management, and thread management, to optimize performance.
* **Managed WebLogic domains**, including domain creation, server instances, node managers, and configuration management across multiple environments using ansible.
* **Configured and managed WebLogic JMS (Java Message Service)** for messaging and asynchronous communication between applications.
* **Automated WebLogic domain and server configurations** using WLST (WebLogic Scripting Tool) to reduce manual tasks and errors.
* Proficient knowledge with **Helm charts** to manage and release helm packages.
* Responsible for Administering and maintaining **Jenkins** and Jenkins slaves on windows and Linux (Debian/Ubuntu). Created many Jenkins slaves and set up jobs on master to run on slaves.
* Designed and maintained **RESTful APIs** using the net/http package in **Golang**.
* Worked on **microservices** architecture, deploying and managing services written in **Golang**
* Managed **EKS clusters**, including node groups, scaling policies, and network configurations.
* Integrated **EKS** with other AWS services such as IAM, VPC, and **CloudWatch** for enhanced security and monitoring.
* Implemented and managed **JFrog** Artifactory for artifact storage, versioning, and distribution.
* Integrated **JFrog** Artifactory with CI/CD pipelines to automate artifact management and deployment.
* Configured access controls and repository layouts to organize and secure artifacts effectively.
* Developed command-line applications in **Golang** for efficient system management.
* Creating **Ansible** roles Using **Ansible** Vault in playbooks to protect sensitive data Administrative Support.
* Conducted code reviews and provided constructive feedback to improve **Golang codebase.**
* Implemented and optimized database interactions using **GORM** or other **Golang** database libraries.
* Configured **AppDynamics** Custom Dashboards, alerts and health rules & policies.
* Developed **Python** and **shell scripts** for automation of the build and release process.
* Using **Ansible** inventories to define groups of hosts Exceptional Customer Service.

**Environment:** AWS, EC2, S3, Lambda, Auto Scaling, Cloud Watch, Cloud Formation, Ansible, Jenkins, EKS, Jfrog, Linux, Shell scripting, GIT, Jenkins, Python, Docker, Kubernetes, Nexus Artifactory, Urban Code Deploy.

**Dhruvsoft Services Private Limited, Hyderabad, India July 2014 – December 2015 Linux System administrator**

**Responsibilities:**

* Maintaining several servers running UNIX and Red Hat Linux supporting organization network monitoring tools
* Total system architecture was developed, by design requirements and made certain total system is integrated, tested, and verified.
* Installed and **administered Tomcat repository** to deploy the artifacts generated by Maven and to store the dependent jars, which are used during the build.
* Manage **Local Area Networks** (LAN) and **Wide Area Networks** (WAN). Performs installation, maintenance and upgrades to all equipment located on the stake holder's sites, to include Cisco, Juniper and other networking devices.
* Experience with **PKI-based protocols** and certificate-enabled applications (e.g. SSL/TLS, S/MIME, authentication, etc.)
* Knowledge of **X.509 digital certificates,** ASN.1, **revocation checking technologies** (OCSP, CRL) and **Transport Layer Security** (TLS)
* Managing users and group creation, deletion, locking/unlocking, resetting passwords, and controlling password aging, user labeling compliance remediation and controlling user account expiry.
* **SSL and TLC** certificate installation, managing service accounts and configuration and management for the hosted websites in IIS.
* Worked on setting up applications in IIS 7 and setup TLC certificates, service accounts, made change in **web.config**

as per dev team’s requirements on lower environments.

* Requested and installed SSL/TLC certificates using Microsoft management console and **IIS.**
* Extensive knowledge in Change Management processes using various tools such as **Jenkins Deployment Manager**

as a mechanism to roll out releases to test, UAT, and production environment.

* Installed, managed and implemented various java (JDK7) applications on multiple UNIX platforms.
* Provide support of in-house mail system. This includes daily maintenance and all software and hardware upgrades.
* Performed automated installations of Operating system using kick start for Red **Hat Enterprise Linux 6** and

**Jumpstart Linux**.

* Create the **Connection Pool** and Data Source for Connecting the Oracle Database.

**Environment**: Maven, Tomcat, Red Hat Enterprise Linux, UNIX.