**Sundar**

**DevOps Consultant**

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**Professional Summary:**

* Over **10+** years of experience in IT including **4+** years of experience working as a **DevOps** Engineer supporting infrastructure and Build & Release Management with strong background on web applications, middleware, and databases.
* Extensive experience in the design and implementation of **Continuous Integration, Continuous Delivery, Continuous Deployment and DevOps processes** for Agile projects across the Financial and retail sectors.
* Good experience working on different cloud platforms like **Amazon Web Services(AWS), Google Cloud Platform (GCP)** and **Microsoft Azure**.
* Experience in implementing company's **DevOps** strategy in a mix environment of Linux (RHEL, CENTOS, Windows) servers along with creating and implementing a cloud strategy based on Amazon Web Services (AWS) and GCP
* Good experience in working on **DevOps** tools like **GIT, Jenkins, Maven, Selenium, Puppet, Chef, Ansible, Docker, Kubernetes, Terraform.**
* Good experience on creating **AWS** users and groups through IAM and use permissions to allow and deny their access to AWS resources
* Hands on Experience on **GIT** to help manage and document all the changes to application code and Configuration Management Code and having strong experience on source control concepts like Branches, Masters, Merges and Tags.
* Configured **Jenkins**, used as a Continuous Integration tool for installing and configuring **Jenkins** Master and hooking up with different build slaves.
* Good experience in maintaining CI environments with build automation tools like **Jenkins** and extensively used **Jenkins** to streamline **CI/CD** process, automated Master-Slave configurations using temporary slaves.
* Good Experience in interlinking multiple **Jenkins** jobs with pipeline, integrated sonar to run as part of **Jenkins** build job, monitoring nightly builds and daily builds and deployed to different environments like QA, UAT, DEV, PROD.
* Managed and distributed builds generated by **Maven** by using binary repos like Nexus and Artifactory.
* Created infrastructure in a coded manner (**Infrastructure as Code-IaC**) using **Puppet, Chef and Ansible** forconfiguration management of virtual environments.
* Good Exposure on **Chef** Workstation, **Chef** Server, **Chef** Client, servers and nodes.
* Worked on **Puppet** Server and workstation to manage and configure nodes, experience in writing puppet manifests to automate the configuration of a board range of services.
* Performed **Orchestration** and **Configuration Management** of middleware and applications deployment by writing **Ansible**Playbooks and pushing them into environments
* Good experience in creating **Docker** Containers leveraging existing Linux Containers and AMI's in addition to creating **Docker** Containers from scratch.
* Good experience in automating deployments, scaling, and operations of application containers across clusters of hosts, provided container - centric infrastructure by **Kubernetes**
* Strong experience in deploying the code through Application, Static and Dynamic on servers like **Apache Tomcat, Apache, NGINX** etc.,
* Good experience in writing **Terraform** modules for creation of EC2 Instance and VPC using **Terraform** scripts.
* Good experience in using **Nagios**as a monitoring toolto identify and resolve infrastructure problems before they affect critical processes
* Worked efficiently with applications development team to implement, test and rollout new patch releases.
* Worked closely with developers to pinpoint and provide early warnings of common build failures.
* Executed user administration and maintenance tasks including creating users and groups, reports and queries.
* Experience working in **Agile** Testing Methodologies &Software Test Life Cycle (STLC**).**
* Worked with development, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems
* Experience in **Blue/Green deployment** strategy by creating new applications which are identical to the existing production environment

**Technical Skills:**

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| **DevOps Tools** | Git, Jenkins, Maven, Selenium, Docker, Puppet, Chef, Ansible, Kubernetes(k8s), Terraform, Nagios |
| **Scripting languages** | Shell, Bash, Python, Ruby, Groovy |
| **Databases** | Oracle 11g/10g/9i, MySQL, DB2, MS-SQL Server |
| **Web/App Servers** | Apache, Tomcat, Nginx, LAMP, MEAN |
| **Web Technologies** | HTML, XML, JavaScript, AJAX, SOAP, WSDL |
| **Operating Systems** | Linux (Red Hat 4.x, 5.x, 6.x), (Cent OS 5, 6.5, 7) UNIX, WINDOWS NT/2000/2003/XP/VISTA/7/10 |
| **Cloud Technologies** | Amazon Web Services (AWS), Google Cloud Platform (GCP), Azure |

**Work Experience:**

**Volkswagen Financial Services Feb 2018 – Till Date**

**DevOps Consultant**

**Responsibilities:**

* Launched Elastic Cloud Compute **(EC2) instances** on different Linux flavours and configured **AWS IAM roles** for **EC2 instances.**
* Used **AWS Identity Access Management (IAM)** to create users, groups.
* Provisioned the highly available **EC2 Instances** using **Terraform**and **Cloud Formation Templates**
* Coordinated developers with establishing and applying appropriate branching, naming conventions using **GIT.**
* Automated Deployment of Java based applications into **Tomcat, WebLogic** servers using **Ansible**and **Jenkins.**
* Used **JIRA** to capture, organize and prioritize issues and partially administering issue management.
* Used **Maven**as a build tool for the building of the deployable artefacts from the source code.
* Integrated **Jenkins**with various **DevOps** tools such as **GIT, Maven, Junit, Selenium** and **Nexus** and developed **Jenkins jobs** to automatically manage, test and deploy code and applications.
* Created, tested and deployed an end-to-end **CI/CD pipeline** for various applications using **Jenkins.**
* Worked on installation of **Docker** using **Docker** toolbox and also worked on creation of custom container images, tagging and pushing the images.
* Used **Docker**to virtualize the servers for the Dev and Test environment needs and **Docker Swarm** to maintain the cluster of containers.
* Designed, installed and implemented **Ansible configuration management system**, written **Ansible playbooks** and deployed applications
* Configured the **Ansibl**e modules for AWS cloud deployment
* Worked on deployment automation of all the micro services to pull image from the private **Docker** registry and deploy to **Kubernetes** Cluster using **Ansible**.
* Used & Implemented **Kubernetes** to deploy scale, load balance, scale and manage **Docker** containers with multiple name spaced versions.
* Used **Nagios** as the monitoring tool for monitoring the servers and resolved infrastructure problems before they effect critical processes.
* Hands on experience on **JIRA** for creating bug tickets, workflows, pulling reports from dashboard, creating and planning sprints.
* Documented the entire installation process for various tools and provided on-call support.
* Worked closely with developers to pinpoint and provide early warnings of common build failures.
* Provided periodic feedback of status and scheduling issues to the management
* Kept track of all the releases and request of the developers through Infrastructure management tool
* Involved in periodic archiving and storage of the source code for disaster recovery.

**Environment:** AWS, Linux, CentOS, GIT, Maven, Jenkins, Selenium, JUnit, PMD, Cobertura, Ansible, Docker, Kubernetes, Terraform, Slack, JIRA, Python, Ruby, Groovy and Bash scripts, YAML scripts.

**HSBC Nov 2016 – Jan 2018**

**DevOps Engineer**

**Responsibilities:**

* Created clusters in **Google Cloud** **Platform (GCP)**and manage the clusters using Kubernetes(k8s). Using Jenkins to deploy code to Google Cloud, create new namespaces, creating docker images and pushing them to container registry of Google Cloud.
* Worked on **Google Cloud Platform (GCP)** services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Setup GCP Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Created the automated build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Configured, implemented & Administered **GIT**for version control to include branching and merge management.
* Worked on integrating **GIT**into the continuous Integration environment along with **Jenkins.**
* Good experience on **MAVEN**, as build tools and building of deployable artefacts from source code.
* Installed and configured **Jenkins** and created master and slave nodes for handling multiple builds, installing plugins wherever required for the implementation of the builds.
* Automated the process of continuous integration and deployments using **Jenkins, Docker, Puppet** and **AWS Cloud Formation Templates**
* Integrated **Jenkins** with various DevOps tools such as **Nexus, SonarQube, Puppet, Git and Maven**, developed **Jenkins jobs** to automatically manage, test, and deploy code and applications
* Supported and deployed to web application servers such as **WebLogic, JBOSS, Tomcat,** and **Apache HTTPD** servers.
* Implemented a **CI/CD** pipeline with **Jenkins, GitHub, Nexus, Maven, Docker**.
* Performed and deployed Builds for various Environments like **QA, Integration, UAT** and **Productions** Environments.
* Implemented **Docker containers** to create various environments to deploy the applications.
* Configured **Docker containers** and created **Docker files** for different environments.
* Used **Puppet** as Configuration management tool to automate repetitive tasks and to quickly deploy critical applications by using **Puppet Manifests**
* Experience working with **Puppet Enterprise** and **Puppet Open Source**, Installed, Configured, Upgraded, and managed Puppet master, agents and databases.
* Worked on **Puppet Server** and workstation to manage and configure nodes, experience in writing **Puppet manifests** to **Automate**the configuration of a board range of services.
* Deployed **Puppet** for configuration management to existing infrastructure and implemented **puppet modules**for server housekeeping.
* Utilized **Puppet** forconfiguration management of hosted Instances within **GCP.**
* Maintained and developed **Docker images**for a tech stack including Cassandra, Kafka, Apache, and several in house written Java services running in **Google Cloud Platform (GCP)**on Kubernetes.
* Used **JIRA** as a Ticketing tool and configured **Elasticsearch, Logstash and Kibana (ELK**) for log analytics, full text search, application monitoring

**Environment:** Google Cloud Platform (GCP), Ubuntu, Puppet, Docker, GIT, Maven, Jenkins, Selenium, JUnit, Kubernetes, Nexus, Jira, ELK, Python, Ruby, and Bash scripts.

**John Lewis Mar 2015 – Oct 2016**

**DevOps Engineer**

**Responsibilities:**

* Experience in **Amazon Web Services (AWS)** provisioning and good knowledge of AWS services like IAM, EC2, Elastic Load-balancers, Elastic Container Service, S3, Elastic Beanstalk, Cloud Front, Elastic File system, VPC, Route53, Cloud Watch, Cloud Trail, Cloud Formation.
* Plan, deploy, monitor, and maintain Amazon **AWS** cloud infrastructure consisting of multiple **EC2** nodes and **VM's** as required in the environment.
* Managed and Maintained code repository in **Git**, improved practices of branching and code merge for custom needs of development team.
* Automation of new job creation by implementing and managing Jenkins **DSL**. Setup Jenkins master/slave architecture to use **Jenkins** as pipeline as service.
* Hands on experience with Jenkins **CI/CD** pipeline involves **Git** repository, Maven build and post build steps like notification and continuous delivery in the **Dev**, **Test** and **UAT** environment.
* Created jobs for builds and deployments, installed several plug-ins in Jenkins to support multiple tools required for the implementation of projects.
* Designed Devops workflow for multiple applications by orchestrating Test, Build, Release and Deploy phases through various **CI/CD** pipelines using Git, **Jenkins**, **Docker**, **Chef** tools.
* Configuring Jenkins pipeline for auto deployment through continuous integration (war build, Integration test, performance test, deploy in Test environment and then into Production).
* Worked on creating the **Docker** containers and Docker consoles for managing the application life cycle.
* Implemented Kubernetes to deploy scale, load balance, scale and manage docker containers with multiple name spaced versions.
* Managed local deployments in **Kubernetes**, creating local cluster and deploying application containers
* Created and deployed Kubernetes pod definitions, tags, labels, multi-pod container replication. Managed multiple Kubernetes pod containers scaling, and auto-scaling.
* Automating Server Builds using **Chef**, Installed and configured **Nagios**on Linux servers for log analysis
* Created and maintained many Cookbooks and Recipes using Ruby language in Chef to speedup automation of various applications, configuration and deployment of software components.
* Installed Chef Server and clients to pick up the Build from GIT repository and deploy in target environments
* Setting up and configuring of **Nagios**, improved monitoring in **Nagios** and custom plugins.

**Environment:** AWS,CentOS,Jenkins, GIT, ANT, MAVEN, JIRA, Python, JAVA/J2EE, Web Sphere, Nagios, Chef, Docker, Kubernetes, Unix/Linux, Windows, Ruby, Perl, Shell, Apache Tomcat, XML, Java/J2EE.

**Goldman Sachs Apr 2012 – Feb 2015**

**Systems Administrator**

**Barclays Investment Bank Jan 2009 – Mar 2012**

**Linux Administrator**

**Qualifications:**

* Masters in Computing– Greenwich University, UK
* Bachelors in Mechanical Engineering – JNTU, INDIA