**PROFESSIONAL SUMMARY:**

* Over 8+ years of experience in the IT industry as a **Cloud/DevOps Engineer**with a major focus in the areas of Cloud Infrastructure Providers, Data Center Migration, Containerization Technologies, Configuration Management, CI/CD Pipeline, Virtualization technologies using different tools and cloud services like **Azure,** **AWS,**and **OpenStack.**
* Designed and deployed applications utilizing**AWS** stack (Including**, ELB, VPC, RDS, DynamoDB, EBS, SNS, SQS, KMS, EC2, S3, Route53, Lambda, Kinesis, Beanstalk and API Gateway**), focusing on **high-availability, fault tolerance** and **auto-scaling** in **AWS Cloud Formation,** deployed services (**Ops Work** and **Cloud** **Formation**) and security practices (**IAM, CloudWatch, CloudTrail**).
* Experience in **Azure IaaS**, provisioning VM’s**, deploying Web Apps, Creating Web-Jobs, Virtual Hard disks** and **Virtual Networks**, Cloud infrastructure in **Azure services** like **Compute, azure roles, Azure SQL, NoSQL, Storage**, and **Network services, Azure Active Directory, API Management, Azure Autoscaling, Azure search**, **Azure DNS, gateway of Azure VPN.**
* Used **Google Cloud Platform** services like **Compute Engine, Cloud Functions, Cloud DNS, Cloud Storage, GCP Firewalls, CDN** and**SaaS, PaaS**and**IaaS** concepts of Cloud computing architecture and implementation using **GCP**.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using **Terraform**.
* Experience in writing **playbooks** in ansible and used **Ansible tower** and **Ansible walt** for securing the deployments
* Expertise in configuration management tools like **Chef, Ansible** and **Puppet** by creating custom playbooks, recipes.
* Used **Jenkins** innovatively to automate most of the build related tasks. Improved throughput and efficiency of build system by providing EO/managers rights to trigger a required build.
* Installed and configured CI/CD tools like **Jenkins, Team City, Harness, Concours, Azure DevOps**.
* Integrated artifact storage like artifact in **Nexus** to CI/CD build tools.
* Experience in managing the repository manager like **Nexus** for the **Maven** builds. Integrated **Maven** with **Jenkins** by which the **Surefire test reports** and **Javadoc** produced by **Maven** are captured and to build parallel modules.
* Worked on application containers using **docker** using custom docker files and orchestrating using **docker swarm** and **Kubernetes** on both on premises and cloud.
* Good knowledge in using **OpenShift** for container orchestration with **Kubernetes**, container storage, automation, to enhance container platform of multi-tenancy. Experience with **PCF, OpenShift, Kubernetes** architecture and design, troubleshooting issues and multi-regional deployment models and patterns for large-scale applications.
* Hand on experience in **JIRA** as defect tracking system and configure various workflows, customizations and plugins for **JIRA** bug/issue tracker, integrated **Jenkins** with **JIRA**, **GitHub.**
* In-depth knowledge of computer applications and scripting **like Shell, Ruby, Groovy, Python, YAML, Perl, and XML**. Utilized **MySQL, MongoDB**, **DynamoDB** and **Elastic cache** to perform essential database administration.
* Competence in building Private Cloud Infrastructure of **OpenStack** and deployed **Nagios** to monitor and notifying health checks for **Nova, Neutron, Keystone, Swift, Glance.**
* Hands on expertise in working **Splunk** to analyze & visualize the servers by obtaining the huge volume of data logs.
* Worked on **Linux** server virtualization by creating **Linux** VMs for server consolidations. Configuration and administration of **VMware ESXI, vCenter, vSphere Client** and **Linux / Windows** clients.
* Experienced in con figuration and maintenance of common Linux services such as **Tomcat, Apache, MySQL, NFS, FTP, Postfix, LDAP, DHCP, DNS BIND, HTTP**, **HTTPS, SSH**, **iptables** and **firewall** etc.
* Experience installing and developing on **ELK**. Used Elasticsearch for powering not only Search but using ELK stack for logging and monitoring our systems end to end Using Beats. Responsible to designing and deploying new **ELK clusters, Elasticsearch, Logstash, Kibana, beats, Kafka, zookeeper etc.**
* Proficient in UI using **HTML**, **JavaScript**, and **JSP**, and developed Business Logic and Interfacing components using Business Objects, **XML**, and **JD**
* Expertized in **J2EE design patterns** like Factory, Singleton. Involved in various phases of **Software Development Life Cycle (SDLC)** as requirement gathering, modeling, analysis, architecture design and development.
* In-depth knowledge **User Interface** and implemented business process using **JSP** and **Servlets.**

**Technical Skills**

|  |  |
| --- | --- |
| **Cloud** | AWS, Azure, GCP |
| **Configuration Tools** | Chef, Puppet, Ansible |
| **CI/CD Tools:** | Jenkins, TeamCity, Bamboo |
| **Build Tools:** | Terraform, Cloud Formation, Maven |
| **Container Tools** | Kubernetes, Docker, Docker swarm, OpenShift |
| **Version Control** | GitHub, Bitbucket |
| **Monitoring Tools** | Nagios, Splunk, ELK |
| **Scripting** | Bash/Shell, Python, Perl, PHP, PowerShell, JSON, YAML, HTML5, JavaScript |
| **Databases** | My SQL, MS SQL, Dynamo DB, Mongo DB, Cassandra, AWS RDS |
| **Application Servers** | JBoss 4.x/5.x, Apache Tomcat 5.x/7.x, Web Sphere, Web Logic |
| **Web Servers** | Apache HTTP, Nginx, Apache TOMCAT |
| **Networking** | TCP/IP, DNS, NFS, ICMP, SMTP, DHCP, UDP, NIS, LAN, FTP |
| **Operating Systems** | Red Hat Linux 7/6/5/4, Ubuntu 16/14/13/12, Debian, CentOS, Windows, Solaris 11/10 Mac OS, Fedora |
| **Virtualization Tech** | VMware vSphere ESXi 5.x/4.x, ESX/3.x, VMware Workstation, Vagrant, Virtual box, Oracle |

**PROFESSIONAL EXPERIENCE:**

**Sr. DevOps Engineer**

**Cerner Corporation, Kansas, MO, USA June 2019 to Present**

**Responsibilities:**

* 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.
* Extensively used Google stackdriver for monitoring the logs of both **GKE** and **GCP** instances and configured alerts from Stackdriver for some scenarios.
* 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.
* Migration from on-prem to Google cloud environment and for the **GCP services**such as **Google compute engine**, **BigQuery**, cloud storage, **BigTable**, Spanner, **MemoryStore**, IoT Core and Network service tiers.
* Developed different environments for different applications on Google cloud Platform (**GCP**) by provisioning **Kubernetes**clusters on **GCE**instances and **GKE**using **Docker**, Bash and Python.
* Major role in DevOps Workflow representing all stages starting from SCM Commit Build, Integration Build which compiles Code, **Junit Test** cases and Code Coverage, Build and Bundle, Publish with Lead Approvals and Deployment of Artifacts.
* Create and configure **Jenkins** server using **Terraform** and **Ansible**.
* Use of **Docker, Kubernetes**, and Open Shift to manage micro services for development of continuous integration and continuous delivery.
* Launching **Amazon EC2** Cloud Instances using AWS (Linux/ Ubuntu/ RHEL), Configuring launched instances with respect to specific applications and configured the storage on S3 buckets.
* Managed **IAM** policies, providing access to different AWS resources, design and refine the workflows used to grant access.
* Integrated with **Team City** and **Octopus** for the continuous integration and continuous delivery.
* Enhanced existing automated Build/Deploy process and architect the next generation centralized deployment processes using **Octopus**.
* Automated and tested the Build and deployment of the CRM product on Smoke, DEV Environment using **power shell** and **Octopus** tool.
* Provisioned **EC2 instances** configured auto scaling and defining cloud formation **JSON** templates using **Ansible** modules.
* Implemented Branching and Merging concepts **GIT**.
* Accomplished tasks of client SCM team and worked on the migration of existing code repository from ClearCase multisite to **Azure Repos**.
* Defined application servers on **WebLogic Server**, created nodes and horizontal created clusters, configured **Oracle JDBC** provider to provide connectivity via data source to the application.
* Worked extensively on cross-platforms (Windows and UNIX) with **GIT**.
* Deployed and managed web applications and services into AWS by using **Elastic Bean Stalk**.
* Managed servers on the Amazon Web Services (**AWS**) platform instances using **Chef** Configuration management.
* Designed AWS Cloud Formation templates to create custom sized **VPC, subnets, NAT** to ensure successful deployment of Web applications and database templates.
* Created **Maven POMs** to automate the build process for the new projects and integrated them with third party tools like **SonarQube, Nexus**.
* Deployed and designed pipelines through Azure data factory and debugged the process for errors.
* Involved in creation of **virtual machines** and infrastructure in the Azure Cloud environment.
* Created **Chef Automation tools** and builds and do an overall process improvement to any manual processes.
* Provide engineering design across different workloads including incident & problem management, change management, security, and compliance
* Worked with different teams to develop, maintain, and communicate current development schedules, timelines, and development status

**DevOps / Azure Engineer**

**Allegion, Carmel, Indiana February 2018 to May 2019**

**Responsibilities:**

* Configured **Azure Virtual Networks**, **subnets, DHCP address blocks, Azure network settings, DNS settings, security policies and routing.** Deployed **Azure IaaS** virtual machines and Cloud services (**PaaS** role instances) into secure **Virtual Networks and subnets.**
* Design and implement scenarios using **Azure** QuickStart Templates, create **Azure** Managed Apps, Microsoft **Azure** Compute infrastructure and networking, **Azure Active Directory**, **Azure** Data Storage and **Azure** Data Access Strategy, Web Apps applications that use mobile services and notifications to design advanced applications.
* Managed **Azure Infrastructure,** **Azure Web Roles, Worker Roles, SQL Azure, Azure Storage, Azure AD Licenses, Office365**. Virtual Machine Backup and Recover from a **Recovery Services Vault** using **Azure PowerShell** and Portal.
* Used **Terraform** to deploy the **Azure** infrastructure necessary to create development, test, and production environments for a software development project.
* Expertise in **Azure IaaS** virtual machines (VMs) and **Azure** Cloud services (**PaaS** role instances) into secure **VNets and subnets**, designed **VNets** and subscriptions to conform to **Azure Network Limits.**
* Wrote **Ansible** playbooks, inventories, created custom playbooks written in **YAML** language, encrypted the data using **Ansible** **Vault** and maintained role-based access control by using **Ansible** **Tower**. Use **Ansible, Jenkins, Git**, for implementing.
* Worked on **Docker** and **Ansible** in build automation pipeline and Continuous Deployment of code using **Jenkins** and wrote Playbooks to automate **Ansible servers** using YAML scripting and Developed an **Ansible** role for Zabbix-agent which will be integrated into the to the **CICD pipeline**.
* Provided **POC's** to provision the **AWS** infrastructure using **Ansible** playbooks which includes checking the health status, monitoring & gathering facts about the **EC2**-instances, **ELB**, **Auto Scaling** groups & other resources.
* Responsible for large-scale **Chef** Implementation and maintenance, **Chef** Cookbook's creation, testing and implementation.
* Skilled in monitoring servers using **Nagios**, Cloud watch and using **ELK** Stack Elasticsearch Fluent Kibana.
* Design, build and manage the **ELK** (**Elasticsearch**, **Logstash**, and **Kibana**) cluster for centralized logging and search functionalities for the App.
* Work on **Nagios and ELK** for server monitoring, also used Net Scalar and monitoring tools like **Nagios** for Load Balancing and Controlling Flow of Traffic.
* Experience working on several **Docker** components such as **Docker Engine**, Machine, Creating **Docker Images**, Compose, **Docker Hub** and handling multiple images for middleware installations and domain configuration.
* Worked on **Docker** and **Ansible** in build automation pipeline and Continuous Deployment of code using **Jenkins** and wrote Playbooks to automate **Ansible servers** using YAML scripting and Developed an **Ansible** role for Zabbix-agent which will be integrated into the to the **CICD pipeline**.
* Configured applications that run multi-container **Docker** applications by utilizing the **Docker**-Compose tool which uses a file configured in **YAML** format. Used **Kubernetes** to manage containerized applications using its nodes, Config-Maps, selector, Services, and deployed application containers as **Pods**.
* Managed **Kubernetes** charts using **Helm**. Created reproducible builds of the **Kubernetes** applications, managed **Kubernetes manifest files** and managed releases of **Helm packages.** Established a local dev workflow that centered around **minikube** to validate deployments in **Kubernetes**.
* Setting up **Kubernetes** (k8s) Clusters for running microservices and Pushed microservices into production with **Kubernetes** backed Infrastructure. Development of automation of **Kubernetes clusters** via playbooks in **AWS.**
* Worked on **Linux** server virtualization by creating **Linux** VMs for server consolidations. Configuration and administration of VMware **ESXI, vCenter, vSphere** Client and **Linux / Windows** clients.
* Configure **EMULEX**/**QLOGIC** mezzanine HBA on BL460c to boot from SAN to run **Red Hat Enterprise Linux** or ESXi as the primary Operating System.
* Built end to end CI/CD Pipelines in **Jenkins** to retrieve code, compile applications, perform tests and push build artifacts to **Nexus**.
* Continuous Integration using **Jenkins** and troubleshoot the deployment build issues using the triggered logs. Implemented auto environment creation using **Ansible** and **Azure.**
* Defined and managed release planning and branching strategy of **GIT** servers. Also, helped educate engineering community on the appropriate use of **GIT**.
* Involved in Research of the project application architecture to support/resolve Build, Compile and Test issues/problems.
* Expertise in **Configuring** and **networking** of Virtual Private Cloud (**VPC**), Writing Cloud Formation templates and **deploying** **AWS** resources using it. Managing **AWS** Infra and automation with CLI, API.
* Migrating a production infrastructure into an **AWS** utilizing **AWS Cloud Formation, Code Deploy, EBS** and **Ops Works.**
* Worked with **Terraform** Templates to automate the **Azure** **IAAS** virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
* Written **Templates** for **Azure Infrastructure as code** using **Terraform** to build staging and production environments. Integrated **Azure Log Analytics** with **Azure VMs** for monitoring the **log files**, store them and track metrics and used **Terraform** as a tool, **Managed** different infrastructure resources **Cloud**, **VMware**, and **Docker** containers.
* Created scripts in **Python**which integrated with **Amazon API**to control instance operations, integrate, and implement a complete cloud services framework (**IaaS, PaaS, and SaaS)** and cloud deployment model (private**, public, and hybrid).**
* Involved in 24x7 on-call production support and troubleshooting all types of problems related to OS and Applications.
* Involved in installing, configuring and administration of **Red hat Linux 4.x, 5.x, 6.1** servers by using **Kickstart** and Jump Start servers and supported various applications running on them.

**DevOps Engineer**

**GT Konnect, Hyderabad, India. November 2016 to December 2017**

**Responsibilities:**

* Create continuous integration/deployment with Application Release Automation by integrating and improving client's existing infrastructure and build pipelines, largely aiming for autonomous automation when possible.
* Primarily used Ruby for **chef cookbooks**, shell scripting to code tasks that connect various **AWS** resources.
* Written Chef Cookbooks for various DB configurations to modularize and optimize end-product configuration, converting production support scripts to **Chef Recipes** and AWS server provisioning using Chef Recipes.
* Implemented the Chef Software setup and configuration on VM's from the scratch and deployed the run-list into chef-server and bootstrapped the chef clients remotely.
* Developed processes, tools, automation for Jenkins based software for build system and delivering SW Builds, Managed build results in **Jenkins** and deployed using workflows.
* Installed and configured Jenkins for Automating Deployments and providing an automation solution.
* Used Jenkins for continuous deployment and integration of the build and release process.
* Managed and Performed SCM related work for company's website. The project involved working on multiple environments for QA and Production.
* Redesigned Release management process and build scripts written in Bash.
* Developed build and deployment scripts using **MAVEN** as build tools in Jenkins to move from one environment to other environments.
* Maintained and administered **GIT** source code tool, Created Branches, Labels, and performed merges in Stash and GIT.
* Involved in migration from SVN to GIT repos and worked with Linux sys admins for the same.
* Created cookbooks for OpenStack deployments and bug fixes with Chef.
* Debug and resolve Pre-Post OpenStack deployment failures.
* Written Unit test cases for chef recipe testing using test kitchen, food critic etc.
* Setting up chef repo's (local & remote) working with both hosted and standalone server versions
* Created and modified **HTML, PHP, jQuery, JavaScript, web pages,** also Writing restful APIs and Http Server in Node.js
* Setup and upgrade **database servers** and replication environments **(PostgreSQL, Maria DB, and MongoDB).**
* Expertise in marathon in binding volumes to applications and running databases like MYSQL and PostgreSQL.

**DevOps Engineer**

**Inspiredge IT solutions, Hyderabad September 2015 to October 2016**

**Responsibilities:**

* Installation, Configuration, backup, recovery, maintenance, and support of **Solaris, RedHat Linux**.
* Installing, upgrading, and configuring **RHEL** using Kickstart and **RedHat** Satellite server.
* Main responsibilities include Build and Deployment of the java applications onto different environments like **Dev, QA, UAT and Prod**.
* Integrated Maven with Shell scripts created in Bash to automate the deployments for the Java based applications. Managed the deployment activities for multiple server instances by enabling password less SSH communication between the servers and utilizing the resync utility in the shell scripts.
* Hands-on experience on CI tools like **JENKINS**.
* Managed branching and Merging in a multi-project environment.
* Managed the entire Release Communication and Co-ordination process.
* Imported and managed multiple applications in Subversion (SVN).
* Provided end-user training for all Subversion (SVN) users to effectively use the tool.
* Involved in backing up repository, creating folder and granting user access privileges.
* Assist our Client in the centralized Build Farm which has responsibility of creating and maintaining build scripts required by the applications.
* Automated the Build and Deployment process using **WebLogic server**.
* Integrated **SVN** and **Maven** with **Jenkins** to implement the continuous integration process.
* Performed weekly and on-call deployments of application codes to production environments

**Systems Administrator**

**Symbiosys Technologies, Andhra Pradesh April 2013 to August 2015**

**Responsibilities**:

* Responsible for **data backup and recovery, active directory administration** - group policy, hardware installation, upgrading, network equipment repairs
* Installed and configured **Linux, UNIX, SUSE & RedHat 5.x/6**using **Kickstart**with **PXE**for **LAMP**(Linux, Apache, MySQL, and Perl/PHP) installations.
* As a Linux system admin maintained the various servers and Production Support of various applications in **RedHat Enterprise Linux**and **Windows** environment.
* Fulfilled customer orders, such as the installation of servers and software.
* Worked with proprietary software to generate ticket databases, send them to network printers
* Software application troubleshooting and support for business environment applications
* Maintained all **workstations and servers, network infrastructure** and ensured uninterrupted electricity supply systems are functioning properly
* Maintained data **backup and recovery** systems, testing environments and troubleshooting
* Managed effective vendors' relations
* Responsible for **hardware installation, upgrading,** network equipment, repairs, printers
* Lowered spam by 90% using firewall filtering with real-time spam blacklists for incoming email by installing, configuring, and using
* Barracuda Networks Spam and **Firewall** Software’s

**Junior Java Developer**

**Sanreg Software Pvt. Ltd, Hyderabad October 2011 – March 2013**

**Responsibilities**:

* Responsible for developing web pages using **HTML, CSS, JavaScript** and fixed the browser compatibility issues in IE, Firefox, and chrome browsers.
* Used **jQuery** selectors for accessing DOM and controlling access to different web pages of the application.
* Developed presentation tier as **HTML, JSPs** using Framework.
* Developed session, entity beans and message driven beans.
* Entity Beans used for accessing data from the **SQL** Server database.
* Prepared high- and low-level design documents for the business modules for future references and updates.
* Deployed the application on **Tomcat** application server in development and production environment.