**Name:** Sanjeeva K

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**Sr. DevOps Engineer.**

**PROFESSIONAL SUMMARY:**

* Over 8 years of IT industry experience as a Linux Administrator, DevOps, Build and Release Engineer and Cloud Engineer like Amazon Web Services (AWS), Microsoft Azure with major focus on Continuous Integration, Continuous Delivery and Continuous Deployment.
* Expertise in Amazon AWS Cloud Administration which includes services like: EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, OPS Work, Security Groups.
* Experience in provisioning and administering EC2 instances and configuring EBS, S3- cross region replication, Elastic Load Balancer, configure Auto scaling, setting up Cloud Watch alarms, Virtual Private Cloud (VPC) and RDS based on architecture.
* Experience in designing AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Experience in building, designing and implementing scalable cloud-based web applications for PaaS, IaaS or SaaS using AWS, Azure and GCP.
* Experience in Windows Azure Services like PaaS, IaaS and worked on Azure PaaS storages like Blob SQL Azure. Well experienced in deployment & configuration management and Virtualization.
* Interacted with Architect & implemented Cloud / Azure based systems as a part of POC in the patching process.
* Worked on Power Shell scripts to automate the Azure Cloud system creation of Resource groups, Web Applications, Azure Storage Blobs &Tables, firewall rules.
* Working knowledge in Ansible to manage all existing servers and automate the build and configuration of newly provisioned servers.
* Used Ansible to automate the Cassandra Tasks such as new installations/configurations and Basic Server Level Checks.
* Automated the provisioning of Tomcat application, Apache web instances through Ansible.
* Experience working on several Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry.
* Configured Docker containers for Branching purpose and deployed using Elastic Beanstalk.
* Experience with Docker, Kubernetes, swarm and clustering frameworks.
* Strong knowledge on Zookeeper and Kafka configuration, creating queue, topics, maintains the servers and messaging flow.
* Helped customers implement Monitoring System (Kafka, Zookeeper) in the Kubernetes Cluster.
* Experienced working on CI/CD allowing for deploy to multiple client Kubernetes/AWS environments.
* Managed servers on the Amazon Web Services (AWS) platform using Ansible/chef configuration management tools and Created instances in AWS as well as migrated data to AWS from data Center.
* Experience in building multiple cookbooks in Chef, and implemented environments, roles, data bags in Chef for better environment management.
* Good knowledge and experience in using Elasticsearch, Kibana and fluentd, CloudWatch, Nagios, Splunk, Prometheus and Grafana for logging and monitoring.
* Experience in developing Chef recipes to configure, deploy and maintain software components of the existing infrastructure

**PROFESSIONAL EXPERIENCE:**

**Sr. DevOps Engineer**

 **CBRE, Dallas, TX March 2018 to Present**

**Responsibilities:**

* Experience as Cloud AWS Engineer project teams that involved different development teams and multiple simultaneous software releases.
* Experience in managing the configuration across the bare metal hosts using Ansible and chef.
* Expertise in kickstarting and bootstrapping the bare metal nodes.
* Experience in deploying applications over on premise hosted bare metal hosts across multiple data centres to achieve high availability.
* Design of Cloud architectures for customers looking to migrate or develop new PaaS, IaaS, or hybrid solutions utilizing Amazon Web Services (AWS).
* Installed, Configured and Maintained RedHat Linux (RedHat Enterprise Linux 5.x, 6.x& 7.x) on SPARC, x86 and Blade Centre's.
* Converted and automated builds using Maven and Ant. Scheduled automated nightly builds using Jenkins.
* Implement systems that are highly available, scalable, and self-healing on the AWS platform.
* Created the AWS VPC network for the Installed Instances and configured the Security Groups and Elastic IP's accordingly.
* Involved in designing and deploying multitude applications utilizing almost all the AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB,) focusing on high-availability, fault tolerance, and Auto scaling in AWS Cloud Formation.
* Created Terraform templates for provisioning virtual networks, subnets, VM Scale sets, Load balancers and NAT rules and used Terraform graph to visualize execution plan using the graph command.
* Source code admin - Manage and configure GIT, resolve issue regarding source code management, manage branching and merging, code freeze process.
* Wrote AWS Infrastructure as a Code using Terraform to build staging and production environments.
* Involved in the process of utilizing Terraform and Ansible to migrate monolithic systems to Amazon Web Services (AWS).
* Used Python to supplement scripting provided by Ansible and Terraform for backing up AMIs (Amazon Machine Images), encrypting EBS volumes and scheduling Lambda functions for deployed applications.
* Had knowledge on Kibana and Elastic search to identify the Kafka message failure scenarios.
* Implemented Kafka producer and consumer application on Kafka cluster setup with help of Zookeeper.
* Experienced in setting up SSL across the MQ and Broker environments and maintaining the certificates
* I have experienced in creating panels and dashboards in Grafana by importing data from multiple external sources.
* I have very good experience in creating heat map, single pane, bar chart, graph chart and creating alerts based on specific threshold value out of the panels and integrating them to PagerDuty services over to slack and hip chart.
* Configuration Management using GIT and maintaining admin related files.
* Developed build and deployment scripts using Maven as build tool and automated the build and deploy processes using Jenkins to move from one environment to other environments.
* Code Coverage-Installed SONAR on Jenkins server and configure with the build process for the code analysis process for better code quality and code metrics, and rapid feedback for development teams and managers.
* Automate the code review process and published the results on Jenkins as well the graph by comparing everyday nightly builds.
* Responsible for delivering an end-to-end continuous integration - continuous delivery system for the products in an agile development approach using Ansible and Jenkins.
* Managed Ansible Playbooks with Ansible modules, implemented CD automation using Ansible, managing existing servers and automation of build/configuration of new servers.
* Implemented CI/CD pipeline using Jenkins, Ansible Playbooks and Ansible Tower.
* Worked with Docker and Kubernetes on multiple cloud providers, by helping developers build and containerize their application (CI/CD) to deploying either on public or private cloud.
* Deployed Kubernetes clusters and managed, scheduled container tasks on AWS infrastructure.
* Extensive experience in building the helm charts out of helm templates, push to chart museum and deployed on top of Kubernetes.
* Created Docker images using a Docker file. Worked on Docker container snapshots, removing images and managing Docker volumes and experienced with Docker container service.
* Worked on containerizing Open Stack services in Docker using Ansible.
* Nodes/Agents, SSH, deployment in Agile methodology and testing.
* Managed nightly builds and releases to QA. Debugged build failures and worked with developers and QA personnel to resolve related issues.
* Implemented the Build automation process for all the assigned projects in Vertical Apps domain.
* Monitor the QA/Production Environments for any down time issues by performing regular Cron job updates in servers.

**Environment**: AWS (Amazon Web Services) Ansible, Docker, Terraform, Kubernetes, Microservices, Cloud Foundry, Cloud Watch, Cloud Formation, GCP, Ant, Kafka, Maven, Grafana, Subversion, SVN, GIT, Nexus, Jenkins, PERL, BASH, Solaris, UNIX, LINUX 5.x, 6.x& 7.x.

**DevOps Engineer/ Site Reliability Engineer**

**Blackhawk Network, Pleasanton, CA April 2016 to Feb 2018**

**Responsibilities:**

* Responsible for migrating from Bamboo to Jenkins as continues integration tool.
* Administer and Maintain Source Code Repositories including GIT, Subversion.
* Created and maintained several build definitions and publish profiles to handle automated builds in an Agile / SCRUM environment.
* Designed and implemented fully automated server build, management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including Jenkins Nodes/Agent, VMWare, Amazon EC2.
* Creating and Managing Virtual Machines and setting up communication with the help of Endpoints and VM Migrations.
* Worked on AWS Route53 for registering domain names and to route internet traffic for domains and
* monitor the health checks of the resources.
* Deployed continues delivery pipeline by using Jenkins, Artifactory, SonarQube, Tomcat, AWS.
* Experienced in programming Ansible Playbooks with Python for system administration, managing configurations of VMware Nodes and testing Playbooks.
* Implement, manage and orchestrate Docker Container Clusters using Kubernetes. Worked on cluster creation for minion/worker in Kubernetes.
* Setup MQ Clustering for high availability and administration purposes & Providing 24/7 support for the MQ and WBIMB issues.
* Used Chef for server provisioning and infrastructure automation, release automation and deployment automation, Configure files, commands and packages.
* Designed Puppet Modules to manage configurations and automate installation process. Developed automation scripting in Python (core) using Puppet to deploy and manage Java applications across Linux servers.
* Create, maintain and customize complex JIRA project configurations including workflows, custom fields, permissions and notifications.
* Developed Cron jobs and Shell Scripts for automating administration tasks like file system management, process management, backup and restore.
* Configured and administered Monitoring tool Nagios, worked on User administration setup, maintaining account, monitor system performance.
* Managed TCP/IP packets & DHCP servers, resolved TCP/IP network access problems for the clients and worked with various TCP/IP implementations like NFSv4, NIS, DNS and DHCP.
* Designed workflows, screens, field configurations and components as part of Projects definition for JIRA as an administrator.
* Created and modified build configuration files including POM.xml.
* Experienced in authoring pom.xml files, performing releases with the Maven release plugin, and managing artefacts in NEXUS repository.
* Used Atlassian JIRA as issue tracking and ticketing tool.
* Configured Jenkins daily periodic backups for Jenkins config and plugins files.
* Integrated Jenkins Build pipeline plugin for managing multi project jobs efficiently.
* Deployed the Java applications into web application servers like Apache Tomcat.
* Used Artifactory as a repository management tool to store the .war or jar artifacts in a versioning manner that are generated in the build process.
* Used GitHub as source code management tool.
* Installed and monitored code quality tools like SonarQube to check the standards of the code and to analyses the source code.
* Worked on Nginx, configured reverse proxy for Apache also fine-tuned configurations with rigorous performance testing.
* Installed, configured and administered application servers like Tomcat to deploy many java applications.
* Developed Shell, Python Scripts to automate daily, weekly builds primarily using Maven & Ant for some legacy projects.
* Daily tasks include monitoring Bugzilla to find and rectify the issues.
* Wrote tools using PowerShell and JavaScript to increase flow and productivity.
* Developed JavaScript based serverless applications in AWS Lambda.

**Environment**: AWS, RHEL, Maven, Ant, Apache, MYSQL, RDS, Jenkins, Subversion, GIT, Puppet, GitHub, SonarQube, Artifactory, Nginx, Tomcat, Splunk, Bugzilla, Shell scripts, Python, VMware, Kafka.

**Build and Release Engineer**

**PGE- San Ramon, CA April 2015 to Mar 2016**

**Responsibilities:**

* Hands on Experience working with the Microsoft Azure Cloud Services and Deployed the servers through Azure Resource Manager Templates or Azure Portal.
* Worked on variety of Windows platform which includes installation, configuring and maintenance of applications on those environments.
* Replicated the production environment in Azure that serves as sandbox environment. Copy the data over from production to Sandbox.
* Parameterized the environment variables and properties.
* Planning and implementing Disaster Recovery solutions, capacity planning, data archiving, backup/recovery strategies, Performance Analysis and optimization.
* Strong Experience on Administration and Troubleshooting of Azure IAAS Components (VM, Storage, VNET, Site to Site VPN).
* Experience in Creating the CI/CD Azure DevOps Pipeline for the .Net, java & UI based Web Applications.
* Experienced in Setting up High availability clusters for WebSphere MQ and WebSphere Message Broker servers using HACMP & VERITAS.
* Good Exposure in Azure Site Recovery and Azure Backup and Configuring Azure Backup vault for protecting required VMs to take the VM level backups for Azure and On Premises Environment.
* Working knowledge on Azure Cloud IaaS and PaaS Services. Having Experience of Creating and Managing the users and groups in Azure AD.
* Experience in managing Microsoft Windows server infrastructure and data-center operations by effectively planning, installing, configuring and optimize the IT infrastructure to achieve high availability and performance.
* Designed Network Security Groups (NSGs) to control inbound and outbound access to network interfaces (NICs), VMs and subnets.
* Worked on the PowerShell Script to automate the Windows patching and created the release in Azure DevOps pipelines
* Worked on GIT repository as Distributed Version Control System. Also, on TFS repository as Centralized Control System.
* Installed and configured GIT to implement branching strategy which is suitable for agile development also provided continuous support and maintenance of software builds.
* Worked on integrating Git into the continuous Integration (CI) environment along with Jenkins Configured the services using modern DevOps tools.
* Re-deploy of Jenkins using Docker Services to take the latest changes into effect
* Implemented CI pipelines for project branches so that the job triggered from TFS upon any change to the branches.
* The build failure emails go to a pre-determined list of recipients. The emails will also go to the engineers who have checked in changes to that branch.
* Investigated and Implemented all tools (Klocwork, Semmle, Lattix, FxCop, Lattix and Sonarlint) in pipeline are producing results in SonarQube.
* Closely worked with Kafka Admin team to set up Kafka cluster setup on the QA and Production environments.
* Built a new CI pipeline, Testing and deployment automation with Docker, Jenkins and Ansible.
* Integrating SonarQube in the CI pipeline to analyse code quality and obtain combined code coverage reports and sonar metrics after performing static and dynamic analysis.
* Query the Jenkins changes and figure out the list of engineers who checked in changes and determine their email addresses.
* Emails are also sent to all the engineers who have checked in changes to the branch, when the build fails.
* steps of the pipeline to be controlled via Jenkins job parameters. Seed job to be updated to create the CI jobs upon execution.
* Refined automation components with scripting and configuration management using Ansible.
* Wrote Ansible playbooks from scratch in YAML. Installing, setting up & Troubleshooting Ansible, created and automated platform environment setup.
* Automated various infrastructure activities like Continuous Deployment, application server setup, stack monitoring using Ansible playbooks.
* Automated the deployment process by writing Shell (bash), Python scripts in Jenkins.
* Designed and created multiple deployment strategies using CI/CD Pipelines using Jenkins. Installed multiple plugins to Jenkins, Configured Proxy to get auto updates
* Extensively worked on Jenkins CI/CD pipeline jobs for end-to-end automation to build, test and deliver artifacts and Troubleshoot the build issue during the Jenkins build process.
* Performed system requirements analysis, definition, allocation, and documentation.
* Installed and upgraded, configured, and fine-tuned WebSphere Commerce Applications.
* Implemented Jenkins Code Deploy plugin to deploy to Azure and used to automate the build process and deploy the application to Tomcat server.

**Environment**: Azure, Jenkins, Windows, TFS, Webhooks, GIT, Gradle, MSBuild, Cmake, Docker, Docker swarm, Ansible, SonarQube, Lattix, Klocwork, Semmle, FxCop, Tomcat, Microservices, Java, C++, C#, Shell, Groovy, Agile, SQL Server.

**Build and Release Engineer**

**Pioneer Solutions - Hyderabad, Telangana May 2011 to June 2013**

**Roles & Responsibilities:**

* Responsible for installing and configuring CentOS and Solaris platforms.
* Worked on logical volume management (LVM) by adding external disks from SAN storage.
* Created user accounts, provided pseudo permissions and maintain the user accounts with automation Bash scripts.
* Responsible for providing Privileged Password Management access to accounts in Solaris 10, Linux and windows servers.
* Worked with virtualization using VMware Hypervisor, VMware workstation, KVM for Solaris/centos servers.
* Installed and configured subversion on both Linux and windows platforms.
* Managed all the subversion repositories for branching and tagging.
* Worked closely with Project Managers, Developers and QA Analysts to ensure successful software build and deployment for test, staging and production environment.
* Administered SVN for version control to include branching and merge management, and JIRA to track process defects.
* Created scripts that automate or improve the builds for all client-side platforms - iOS, Android, Windows, using Git and Jenkins, among other tools.
* Execution of daily builds and releases using automated python scripts.
* Resolved update, merge and password authentication issues in Bamboo and JIRA.
* Used SCM tool like Team Foundation Server (TFS) Build Server.
* Implemented build automation using tools like Jenkins.
* Troubleshooting issues raised during0. the build and deployment process.
* Worked on deleting the old deployed code and deploy the newly built code using Web Sphere.

**Environment:** SVN, Ant, Visual Studio 2013, Jenkins, Maven, Version One, Linux, shell scripting, Oracle, JIRA, Nexus, JBOSS, VMware, Virtualization. McAfee, Juniper, Symantec DLP.

**TECHNICAL SKILLS:**

**Build Tools**: Ant, Maven.

**CI Tools**: Jenkins, Hudson, AntHillPro, Teamcity, Bamboo.

**DevOps**: Chef, Puppet, Liquibase, uDeploy, OpenStack (Nova, KVM, Xen, ESX, Docker), AWS, Kafka.

**Scripting Languages**: Shell, Ruby, Perl, JavaScript.

**Artifactory Tools**: JFrog, Nexus.

**Code Quality**: SonarQube.

**Monitoring Tools**: HP LoadRunner, Nagios, NewRelic, splunk & Datadog.

**Configuration Management**: Perforce, Subversion, GIT.

**Operating Systems**: Windows, UNIX, RHEL and Solaris.

**Databases**: Oracle, MySql, MSAccess.

**Change Management**: Remedy, Service Now, PVCS Tracker.

**Web/Application Servers**: Tomcat, HTTP Server, Weblogic, Jboss,

**Bug Reporting Tools**: SDM 12, BugZilla, JIRA and Rational Clear Quest.

**EDUCATION:**

* Master’s in computer science at University of Dayton – 2014.
* Bachelor’s in computer science at Kakatiya Institute of technology and science – 2011.