**Sabarish K  
Lead Devops Engineer  
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**PROFESSIONAL SUMMARY:**

* Overall **10 years** of Versatile IT experience, highly motivated and committed **DevOps** and **Cloud Operations** Engineer experienced in Linux administration, build engineering and release management process, building and deploying applications by adopting **DevOps** practices such as Continuous development, Continuous Integration (**CI**) and Continuous Deployment (**CD**) in runtime with various tools like **bitbucket, Git, Maven, Jenkins, Bamboo**, **Ansible, Docker, Kubernetes** and managing cloud services with **Azure** & **AWS**.
* Experienced in **AWS** Elastic Beanstalk for app Deployments and worked on **AWS lambda**.
* Hands - on experience in Build and Deployment of **CI/CD** pipelines, managing projects often includes tracking multiple deployments across multiple pipeline stages and **DevOps** processes.
* Hands on experience with **AWS** service OpsWorks for installing and configuring **Chef Server** and **Chef** Automate.
* Experience in **Linux OS** Hardening through **Chef** Compliance and wrote Controls based on the **CIS** templates for security.
* Experience migrating on-site solutions to cloud-based offerings, such as Amazon's AWS.
* Experience in configuring the new **CI/CD** pipeline to automate the applications.
* Expertise in Creating **Kubernetes** **HA** clusters with Multi Zones in single region. Hands on with installation and configuration of **Kubernetes**, clustering them and managed local deployments in **Kubernetes**.
* Deployed and configured Prometheus to monitor **Kubernetes** nodes with node-exporter, monitor **Kubernetes API** and resources with Kube-state-metrics.
* Experience in using **Docker** and setting up **ELK** with **Docker** and **Docker**-Compose. Actively involved in deployments on **Docker** using **Kubernetes**. Familiarity with **Docker** Swarm. Used **Docker** **Mesos** to abstract **data centre** resources and to elastically scale the applications and underlying infrastructure.
* Integrated Jenkins with **Docker** for **Docker** build and deployments using **Cloudbees** **Docker pipeline** plugin.
* Experience in setting up **Docker Registry** for local pull and push of **Docker** images and from **Docker hub** .
* Experienced in production-grade **Kubernetes** that allow enterprises to reliably deploy and run containerized workloads across private and public clouds. Managed **Kubernetes** charts using Helm.
* Worked with **Ansible playbooks** for virtual instance provisioning, configuration management, patching and software deployment on **AWS** environments through automated tools, **Ansible/Jenkins** custom pipeline.
* Administered and Engineered **Jenkins**, **Bamboo** and **Hudson** for managing weekly Build, Test and Deploy chain, **SVN/GIT** with Development, Testing and Production Branching Model for weekly releases.
* Experience in developing modules (blue prints) for installation, configuration and continuous integration (**CI**) using combination of puppet master, **GIT**, **Vagrant** and **Jenkins**.
* Composed and implemented Subversion and **GIT** metadata including elements, labels, attributes, triggers, and hyperlinks. **GIT**, **Maven**, **Jenkins** administration. Setting up continuous integration and formal builds using Jenkins with **Artifactory** repository.
* Provisioned the highly available **EC2** Instances using **Terraform** and **CloudFormation**. Experience in Setting up the build and deployment automation for **Terraform/CloudFormation** scripts using **Jenkins**.
* Experienced in cloud automation using **AWS** **cloud** **Formation** Templates, **Chef** and **Puppet**.
* Experienced in configuration management using Visual Studio Team Services (**VSTS**), Team Foundation Server (**TFS**), **VSS** and Subversion (**SVN**)
* Configured and managed an **ELK** stack, setup the Elastic search **ELK** Stack to collect, search and analyze log files across the servers. Evaluated system logs using **ELK** software stack .
* Involved in Ticketing & Bug tracking tools like **JIRA** and used **SonarQube** for automated code review.
* Great communicative, interpersonal, and leadership abilities with capacity to work effectively in both autonomous and group work situations. Capacity to memorize and adjust rapidly to rising modern technologies/frameworks/environments.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Cloud Technologies** | Apache Azure, AWS, GCP |
| **Configuration & Management tools** | Ansible, Chef, Terraform, CloudFormation, Azure Resource Manager |
| **CI/CD & Build Tools** | Jenkins, Hudson, Bamboo, Puppet, ANT, Maven |
| **Version Control Tools** | GIT, Subversion |
| **Monitoring Tools** | Nagios, SPLUNK, ELK, New Relic, Graphene, Zabbix. |
| **Languages** | C, C++, JAVA, J2EE. |
| **Databases** | MySQL, NoSQL, MongoDB, DynamoDB, Elastic ache. |
| **Containerization Tools** | Docker, Docker Compose, Docker swarm, Docker Mesos, Kubernetes. |
| **Scripting language** | Python, Ruby, Perl, PHP, Bash, Power shell. |
| **Virtualization Tools** | VMware, Windows Hyper-V, Virtual box, Vagrant, Citrix Xen. |
| **Atlassian Tools** | JIRA, Confluence, Bitbucket, Bamboo. |
| **Operating Systems** | Linux (Red Hat, CENTOS & SUSE), Solaris, Ubuntu, Windows, DEBIAN. |
| **Application servers** | Web Logic Application Server, Apache Tomcat, Red Hat, JBOSS, WebSphere. |
| **Development methodologies** | Agile/Scrum |

**PROFESSIONAL EXPERIENCE:**

**Verizon, Tampa, FL Oct 2022 – Till Date  
Sr. Lead Devops Engineer  
Description:** Verizon is an American wireless network operator that previously operated as a separate division of Verizon Communications under the name Verizon Wireless. In 2019 reorganization, Verizon moved the wireless products and services into the divisions Verizon Consumer and Verizon Business, and stopped using the Verizon Wireless name.

**Responsibilities:**

* As part of Lead in **DevOps** team, my role includes release management, Environment Management, deployments, Continuous integration, continuous deployment, Incident management, version management.
* Designed and implemented a highly scalable and secure cloud infrastructure, resulting in a **50% reduction** in **downtime** and a **25% increase** in system **performance**.
* Developed and maintained automation scripts for deployment, monitoring, and maintenance, reducing manual effort by **60%** and improving overall system reliability by **30%**.
* Installed and configured a private **Docker** Registry, authored Docker files to run apps in **containerized** environments and used **Kubernetes** to deploy scale, load balance and manage Docker containers with multiple **namespace** ids.
* Used **Kubernetes** to orchestrate the deployment, scaling, and management of **Docker** Containers
* Created private cloud using **Kubernetes** that supports DEV, TEST, and PROD environments.
* Managed **Kubernetes** charts using **Helm**. Created reproducible builds of the Kubernetes applications managed **Kubernetes** manifest files and managed releases of **Helm** packages.
* Written groovy scripts to use multi branch pipeline projects in Jenkins to configure it as per the client’s requirements.
* Worked on **AWS** Provisioning and good knowledge of **AWS** services like **EC2**, **Lambda**, Elastic load balancers, Elastic container service, **S3, RDS**, **Dynamo** **DB**, **VPC, Route53, Cloud** **watch**, **Cloud** **trail**, **Cloud** **formation**, **IAM**, **Athena**, **Elastic search**.
* Designed and developed a real-time data ingestion pipeline for capturing hundreds of millions of home-listings ad-impressions events using **AWS Kinesis Streams, Firehose, Lambda, S3, DynamoDB** and **Redshift**, all server less and managed services of **AWS.**
* Written Templates for **AWS** infrastructure as a code using **Terraform** to build staging and production environments and defined **Terraform** **modules** such as Compute, Network, Operations, and Users to reuse in different environments.
* Used **terraform** to write Infrastructure as code and created **Terraform** scripts for **EC2** instances, Elastic Load balancers and **S3** buckets.
* Worked on **Container** **Orchestration** tools like **Docker** & **Kubernetes**, in-order to build docker image from **docker** files and run the containers in the docker engine, whereas these **clusters** are securely managed by **Kubernetes**.
* Worked and assisted the team on **Blue-Green** Deployment Models within **AWS Cloud** Environment.
* Configured Monitoring stack of **Prometheus**, **Graphana**, node-exporter, tomcat-exporter and maintained as a complete monitoring solution for Infrastructure and Application
* Integrated **Chef** Automate with **GIT** and worked on it for Source code management to allow developers to do code review and verifying the source code before submitting.
* Write **Terraform** scripts from scratch for building Dev, Staging, Prod and DR environments and responsible for implementing monitoring solutions in **Ansible**, **Terraform**, **Docker**, and **Jenkins**.
* Worked on setting up a **Chef** Workstation, bootstrapping various enterprise nodes, and worked with chef **Cookbooks**, **Chef Recipes, Chef** Attributes, and Template.
* Setup end to end **CI/CD** pipelines so that each commit a developer makes will go through standard process of software lifecycle and gets tested well enough before it can make it to the production.
* Implemented **AWS Code** Pipeline and Created Cloud formation **JSON** templates in **Terraform** for infrastructure as code.
* Written **python** scripts to automate the deployment as part of **CI/CD** pipeline
* Created **Terraform** modules to create instances in **AWS** & automated process of creation of resources is **AWS** using **Terraform**.
* Develop **Terraform** automation content to support deployment of resources and applications in an **AWS** environment.
* Provide guidance in the use and architecture of **Terraform** Enterprise or Cloud including deployment and configuration of these tools.

**Environment**: Linux server, Jenkins, GIT, Bamboo, Kubernetes, Jira, service Now, AWS, Ansible, Control M, Batch script, ServiceNow, Graphana, Chef, GIT, Oracle Toad, Confluence, Source tree, Docker, Kubernetes, Jfrog, Cloud Formation Templates, EKS, Terraform.

**Norfolk Southern, Atlanta GA Jul 2018 – Oct 2022**

**Sr. Cloud DevOps Engineer  
Description:** The Norfolk Southern Railway (reporting mark NS) is a Class I freight railroad operating in the Eastern United States. Headquartered in Atlanta, the company was formed in 1982 with the merger of the Norfolk and Western Railway and Southern Railway.

**Responsibilities:**

* Primary duties include **Build and Deployment (Blue Green**) of applications onto different environments like **Dev, QA, UAT and Production**.
* **Managed and Maintained** **IAM** **policies** for organizations in **AWS** to define groups, create users, assign roles, and define rules for role-based access to **AWS** resources
* Increased **EBS backed volume** storage capacity when the root volume is full using **AWS** **EBS** Volume feature
* Created **S3 backups** using versioning enable and moved objects to Amazon Glacier for archiving purpose.
* Used **lambda** function for **EC2 automated snapshot** creation, daily automated reporting of list of **EC2** instance and action based on OS logs digested in Cloud Watch logs like automatically creating deny for **EC2** if some is trying to do unauthenticated login
* Developed API for using **AWS Lambda** to manage the servers and run the code in AWS
* Enabled **Cloud Trail log file validation** so that any changes made to the log file itself after it has been delivered to the S3 bucket is traceable to ensure log file integrity.
* Enabled **access logging for Cloud Trail S3** bucket so that you can track access requests and identify potentially unauthorized or unwarranted access attempts.
* Enabled **Cloud Trail across all geographic regions** and **AWS** services to prevent activity monitoring gaps
* Converted existing **AWS infrastructure to Serverless architecture** (**AWS Lambda, Kinesis**), deployed via **Terraform** and **AWS Cloud Formation**
* Replaced existing Data Access Layer with Java based **DAL** for **DynamoDB** providing **Restful** API for the application.
* Have created **Chef Cookbooks** and written recipes to install and configure agents like **Centrify, Splunk**, TrendMicro and Bes Client along with the Compliance Profiles.
* Extensively worked on **Jenkins** to implement continuous integration (**CI**) and Continuous deployment (**CD**) processes
* Experience in **deploying and monitoring applications** on various platforms using Elastic Beanstalk, setting up the life cycle policies to back the data from AWS S3 to AWS Glacier
* **Rotated IAM access keys** regularly and standardize on a selected number of days for password expiration to ensure that data cannot be accessed with a potential lost or stolen key
* Ensured that the **Chef** recipes are idempotent and using only the **Chef** resources wherever possible.
* **Integrated AWS Native Services** for **CI/CD** Process (Code Pipeline, Code Commit, Code **Build, Code Deploy, EC2, EKS, ECR, S3.**
* Developed build and deployment **scripts using ANT/Maven** as build tools and Bamboo, Control M as automation tool to move from one environment to other environments.
* Maintained a farm of **AWS** solution using **EC2 instances, ELB's, S3, EBS, Auto Scaling**and **RDS**. Setting up servers through using AWS for deployment or other uses for application
* Developed custom **Jenkins** jobs/pipelines that contained **Bash shell scripts** utilizing the **AWS CLI** to automate infrastructure provisioning.
* Successfully migrated applications from on-prem data center to AWS cloud
* **Baked the docker containers** for many java-based applications and deployed into the private docker registry (**Jfrog** **Artifactory**)
* **Written/Writing Production-ready automation code** to implement solutions with **Ansible**, CloudFormation, Terraform
* **Written/Writing AWS Cloud Formation templates** (CFT) to create custom **VPC'S**, subnets, NAT, EC2 instances, ELB's and Security groups using **JSON** templates.
* **Written/Writing recipes and playbooks** and uploading them to ansible-server, managed on-site os/applications/services/packages using **Ansible** as well as **AWS** for **EC2/S3/route53**.
* Accelerated **Chef** **Server** cookbook and **Terraform** components to run in the **AWS** Environment.
* **Deployment automation** of all the micro services to pull image from the private **Docker** registry and deploy to **Docker** swarm cluster using bash scripts.
* Responsible for **installing and upgrade** of **Docker-engine on managed virtual hosts** in the data Centre. Setting up containers using Docker and managing those containers through Kubernetes.
* **Spinning up services**, creating access policies, monitoring services, setting up storage objects, product evaluations and integration with on premise infrastructure.
* Monitors system performance and capacity for all test environments and troubleshoots environmental issues using **Cloud Watch**.
* Initiated and troubleshoot Continuous Delivery builds in **Jenkins** via **JIRA** tickets.
* Orchestrated and migrated continuous integration & continuous deployment (**CI/CD)** processes using **Cloud Formation** Templates and Containerized the infrastructure using **Docker**.
* Integrated **AWS** using **AWS** **lambda** to store the values the items and backup the **DynamoDB** streams.
* Involved in **Jboss** to **WildFly** migration to deploy large scale applications.
* Worked on **Docker-Compose, Docker-Machine to create Docker containers** for Testing applications in QA environment and automated deployments, scaling and management of containerized applications across clusters of hosts using **Kubernetes**.
* Created **Docker images using Docker file**, **Docker** container snapshots, removing images and managing Docker volumes.
* Integrating **Junit** tests in **Ant** & **Maven** and configured **Jenkins** to send the Unit test report to the development team.
* Installed Kubernetes cluster including **Kubernetes** (K8) master and nodes and configured etcd, **kube-apiserver, kube-scheduler, kube-controller-manager** in K8 Master and as well as configured Docker, kubelet, kube-proxy, flannel in K8 nodes
* **Managed local deployments in Kubernetes**, creating local cluster and deploying application containers.

**Environment**: Windows Server, Linux server, Jenkins, Bamboo, Bitbucket, Jira, service Now, AWS, Ansible, Control M, Batch script, ServiceNow, Chef, GIT, Oracle Toad, Confluence, Source tree, Docker, Kubernetes, Jfrog, CloudFormation Templates, EKS, WildFly.

**Delta Airlines, Atlanta GA Mar 2017 – Jul 2018  
Devops Engineer  
Description:** Delta Air Lines is one of the major airlines of the United States and a legacy carrier. One of the world's oldest airlines in operation, Delta is headquartered in Atlanta, Georgia. The airline, along with its subsidiaries and regional affiliates, including Delta Connection, operates over 5,400 flights daily and serves 325 destinations in 52 countries on six continents.

**Responsibilities:**

* Work with business units, software developers, security, to design and build applications and services within **AWS** cloud providers and on prem.
* Succeeded in Migrating **Spring Boot Java** Web applications and **Databases** from on-premises to **AWS Cloud.**
* Provisioned the entire infrastructure required for application stack in **AWS** using Infrastructure as a code (**IAC**) tool **Terraform** making usage of Shared Modules
* Used Jenkins for Continuous Integration and Continuous deployment (**CI/CD**) to run different jobs for deploying **Terraform** code and spinning up resources in **Cloud**
* Automating various infrastructure activities like Continuous Deployment, Application Server setup, stack monitoring using **Ansible playbooks** and has Integrated **Ansible** with **Jenkins**. Ran **Ansible** playbooks and created various roles for applications, then deployed the Applications/Services on hosts
* Worked with playbooks, tasks, roles, facts and templates for **VAR** files and configured files by conditions by keeping dynamic values and triggering **YML** files in **Ansible**.
* Setup **Docker** to automate container deployment through Jenkins and Deal with **Docker** Hub, making **Docker** Images and taking care of various Images essentially for middleware establishments.
* Implemented cluster services using Docker and Kubernetes to manage local deployments in Kubernetes by building a self-hosted Kubernetes cluster using Terraform and Ansible in deploying application containers.
* Worked with different **AWS** Services; **EC2, IAM, S3, Route53, ALB’s, Lambda, API Gateway**, **KMS, Cognito, ECR, AWS batch, Secrets Manager, Amazon Aurora, CloudWatch,** File Gateway for both Serverless and Server based applications.
* Used Jenkins Pipeline to drive all **Microservices** builds out to the **Docker** registry and then deployed to **Kubernetes**, Created Pods and managed using **Kubernetes**.
* Provisioned Multiple EKS clusters using **Terraform** Shared module and used Helm builder to do deployments where used **ECR** to store **docker** images and Nginx as reverse proxy.
* Worked on **Docker** container attaching to a running container, removing images, managing -directory structures and managing containers.
* Worked with Nexus **Artifactory** to store the code as artifacts and retrieve artifacts from Nexus using Jenkins jobs.
* Used **Bitbucket** and **GitLab** as a source code management tool and integrated with Jenkins for **CI/CD** pipeline.
* Utilization of **Agile** methodology through the entire project where **JIRA** is utilized as a work management tool to track the progress, code reviews and bug reporting.
* Built Dashboards in Datadog to monitor the infrastructure, Configured and installed **Splunk** agents on top of Linux server and container to send logs to **Splunk** to collect logs.
* Worked on internal policy documents and documented the application architecture, release process and about its configuration in Confluence.

**Environment**: AWS (Amazon Web Services), Java, Terraform, Jenkins, Nexus Artifactory,

GitLab, JIRA, EKS, ECS, ECR, Ansible, Maven, Apache Tomcat, SonarQube, Splunk, Data Dog, CA APM, Windows/Linux.

**Solsemusa, India Nov 2013 – Jul 2015**

**Linux/Unix System Administrator**

**Responsibilities:**

* Involved in Migration of Databases from **SQL Server 2000** to **SQL Server 2005**
* Provide 24 X 7 dedicated support to all Production, QA & Development MS SQL Server Environments
* Installed, managed, and administrated of all **UNIX** servers, includes Linux operating systems by applying relative patches and packages at regular maintenance periods using RedHat Satellite server, **YUM, RPM** tools
* Conduct day-to-day tasks in **RHEL** that included upgrading rpms, kernel, HBA driver, configuring SAN Disks and LVM file system
* Managing **Databases** spread across multiple servers in Production, Development, staging & testing environments
* Responsible for installing and maintaining **SQL 2008 R2** Cluster environment and Performed migrations from **SQL** **server** **2005** to **SQL server 2008R2/2012**
* Installation and configuration of Redhat Cluster, Veritas Cluster Server and **Veritas** **NetBackup, Apache 1.3.x, Tomcat, WebLogic 9, 10,** and **JBoss**
* Monitors system capacity & performance and takes appropriate action to report and correct all issues
* Implementing **Kickstart/PXE-boot** configuration for automating Linux installations
* Plan, build, document, and support new infrastructure including VMware **ESXi** and vSphere virtualization servers, new fileserver, and other resources
* Automate processes including full and incremental backups using tar and star; migrate and enlarge file systems on **Redhat 6.5** and **CentOS 6.5**
* Providing solutions to client about Disk mirroring and RAID implementation using **LVM**
* Manages Patches configuration, version control, service pack and reviews connectivity issues regarding security problem and did network management **TCP/IP, NIS, DNS, NFS**, **VLAN**
* Setup **NFS** File Systems and shared them for Clients, Maintenance of **NFS** Server with Auto Mounts
* Managed backup and disaster recovery through strict data control and retention policies, personally handling recovery tasks when issues arise.

**Environment**: SQL Server 2000/2005, T-SQL, Excel, Advanced Windows 2003 Server & PVCS Version Control Management, VMware, LINUX, Oracle, Windows server, MySQL, HEL6.3,6.4,6.5, Key Vault, Service Bus, kickstart, NetBackup, Apache/Tomcat, PowerShell, LVM, VMware, RAID, LVM, NFS.

**ACHEIVEMENTS:**

* Successfully implemented central build concept through confluence, which involved educating, planning, and coordinating with the development team
* Automated and documented the release management process, daily Code Drop process, Bitbucket structure for ORMB application at Anthem which involved developing the scripts to handle the maintenance & major releases.
* Successfully managed people & time as to keep up with the work life balance between project deadlines and personal life.
* Provided quick analysis and resolution to the build, which minimized the customer development downtime

**EDUCATION:**

* Master of Science in Computer Science from Northwestern Polytechnic University – Fremont CA Aug 2015 – Dec 2016
* Bachelor of Science in Electronics and Communication from Roland Institute of Technology - Odisha, IN **Jun 2009- Jul 2013**