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**Santhosh Kumar**

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**Professional Summary**:

* **Sr. DevOps/Cloud Lead Architect** with around 14 years of experience in middleware, software configuration management **(SCM) process,** administration using Oracle Web sphere Application Server which includes configuring, deploying, maintaining, troubleshooting and implementation of various web applications
* Ability to manage SCM processes which include **compiling, packaging, deploying** and application configurations.
* Worked on tools like CVS, AWS,Subversion,Ant,Maven,Nant,MSBuild,Cruise control,Hudson,Jenkins, BuildForge,UCD,Bamboo,Teamcity,ClearQuest,Quality,Center,JIRA,Crucible,WebLogic,WebSphere,JBoss, Tomcat Setup framework for one clicks build and deployment on non­production environments.
* Excellent skills in source code repository tools such as **Clear Case, SVN, CVS** and **Git**.
* Expertise in handling **Linux/Ubuntu** Server's which includes install, setup, configure, network, debug, deploy, automate and production support across different environments.
* Good Knowledge in **Unix Shell/Perl/Python** scripting and good C/Java programming experiences.
* Provided high-level technical support & problem determination for both immediate and long term issues.
* Extensive experience using **MAVEN, GRADLE and ANT** as build tools for the building of deployable artifacts (jar, war & ear) from source code.
* Built **CI/CD pipeline** using variety of tools and transformations to build and automate the delivery of the code across different platforms and servers.
* Automated iOS build and release processes using Fastlane for beta (TestFlight) and App Store deployments, improving release frequency and reliability.
* Extensive experience working on windows **Active Directory** platform using **Team Foundation Server (TFS**) and VSTS based on multiple frameworks.
* Expertise in Configuring **SVN** distributed platform for multiple applications and automating builds using Jenkins or other tools and process for regulated **SVN code** control and builds.
* Maintaining different source code repositories in **Code Cloud, GitHub, BitBucket, VSS** (Visual Source Safe), merging and branching out from existing code repositories as needed.
* Expertise in global deployment of G **Suite (former Google Apps**) solutions in **Google cloud platform (GCP) and** knowledge with Office 365 & On-Prime Collaboration Suites (CISCO IronPort, Lotus Domino, Exchange Server versions.
* Implemented new strategies and advised on **Google cloud platform (GCP) along with** building long term strategic business plan for sales to federal, state, and local agencies
* Experience with Linux systems, virtualization in a large-scale environment, with Linux Containers (LXC) .
* Installed **Chef Workstation** and Wrote **Chef** Cookbooks and recipes to Provision several pre­prod environments consisting of Cassandra DB installations, web logic domain creations and several proprietary middleware installations.
* Retaining the **chef-repo** synchronization with version source control and making the use of knife to upload items from the chef-repo to the **Chef** server.
* Implemented multi-tier application provisioning in cloud environment/tenant space, integrating it with **Puppet**.
* Setup alarms through **Netcool** that would inform and send alerts in production environment and end customer issues.
* Well versed in **groovy and Js script, Scala** used mostly for automation scripting purpose and release module using Configuration Management.
* Extensive experience with cloud automation techniques using AWS **and Azure Cloud infrastructure.**
* Built the ground up reliable infrastructure services in **AWS** to deliver highly scalable services that is appropriate **AWS services like Aurora, Data Sync, Snap mirror , Snap Vault, Glue Athena** based on data, compute, database, or security requirements.
* Configuration Management and source code repository management using tools like GIT, Subversion (SVN), perforce and PVCS. Wrote shell scripts (Bash), Ruby, Python and PowerShell for automating tasks.
* Implemented **SAN** by requesting SSL **certificates** for different environments and updated them to **SAN certificates** to support LB, IDNS and resiliency setup.
* Extensive experience in building, hosting, store and deploy applications or websites on **Google cloud Platform** with highly-scalable and reliable infrastructure for web, mobile and backend solutions.
* Well versed in **Redhat Openshift** and container methodologies supporting different platforms and environments.
* Conducted daily **Scrum** stand up, sprint planning, product backlog, sprint review and spring   
  retrospective meetings.
* Used **SonarQube** to trackstatic, source code analysis solution that enables continuous tracking of bugs, code smells and vulnerabilities.
* Well versed in preparing **Business Required** **Documents** **B2C and B2B**, **Application Security Policies** OCP, Postgre and multiple release books and notes as per the Customer/ Organization standards.
* Expertise in Querying **RDBMS such as Oracle, MY SQL and SQL Server by using SQL**, **PL/SQL and T-SQL** for data integrity.
* Developed Puppet modules to automate deployment, configuration, and lifecycle management of key clusters.
* Built Tenant Space configured and secured Virtual Machines using **Open stack** cloud environment by creating disk partitions with specific volumes, adding new interfaces and automated using scripts across different environments.
* Implemented **Docker containerization** and Orchestration to deploy multiple T2 micro services on different platforms.
* Worked on **cloud front, Pivotal Cloud Foundry Operation (PCF)** and Microsoft **Azure (Public) Cloud** to provide IaaS support to client. Create Virtual Machines through Power Shell Script and **Azure Portal**.
* Performed Atlassian Tools (JIRA, Confluence, Bamboo) upgrade in test and production environments by backing up database, home directory and installation directory as well as add-ons.
* Well versed in implementing **Ansible, Ansible Tower and Terraform.**
* Involved extensively in SIT**, UAT, Prod & COB environments** and other testing phases to ensure that technical delivery is done without any defects or errors.
* Used **.Net** and **ASp.Net** to Create and maintain documentation of build and release processes and application configuration to comply with audit requirements and industry best practices.
* Experience in and demonstrated understanding of source control management concepts such as **Branching, Merging, Labeling/Tagging** and **Integration, Docker** and **Kubernetes**.
* Strong hands on experience with scripting languages like **Python, Ruby, PowerShell,** and **JavaScript**.
* Designed and implemented fully automated server build, management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including Jenkins Nodes/Agent, **Chef**, Puppet, Android, VMWare, **Amazon EC2r.**
* Excellent communications skills, configuration skills and technical documentation skills.

**Technical Skills:**

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| --- | --- |
| **Operating Systems** | MS Windows XP/2000/NT/98/7/8, UNIX, Centos, RHEL, Solaris, Linux, MS DOS |
| **Database** | Oracle 11g/10g and 9i, Cassandra, Maria DB, AuroraDB, SQL 2005 and Enterprise |
| **Languages** | Java, J2ee, C++, .NET |
| **Scripting Languages** | PERL, Ruby, Python, Power shell, Shell Programming, SQL, MYSQL |
| **Configuration Management** | Perforce, Ansible, Subversion, GIT, BitBucket, PVCS Version Manager |
| **Clod Environments** | Google Cloud Platform, Open Stack, AWS |
| **Container/Orchestration Tools** | Docker, Kubernetes, Red-Hat Open Shift |
| **Monitoring Tools** | Nagios, Spunk, Introscope, HFRunmonitor, BPM Topaz , Dynatrace, CloudWatch, ELK, Grafana |
| **Change Management** | Remedy, Service Now, PVCS Tracker. |
| **Web/App Servers** | Web logic, Web Sphere, Apache Tomcat, JBOSS |
| **Bug Tracking Tools** | Jira, Remedy, SDM­12, Bugzilla and Rational Clear Quest |
| **Binary Repository Manager** | Nexus, Artifactory |
| **Build & CI Tools** | Chef, Ansible, ANT, SWM Maven, Hudson/Jenkins, AntHillPro, Teamcity, Cruise Control, Bamboo, Nexus, Puppet. |
| **SCM Tools** | CVS, Code Cloud SVN, ClearCase, GitHub. |

**Professional Experience:**

**CapitalOne, Atlanta, GA Sep’23 to present**

**Implementing: Innova Solutions**

**Sr. AWS DevOps Lead Architect**

**Roles and Responsibilities:**

* Collaborated with Software Development teams, Product Managers, and Business Owners to ensure smooth deployment and operation of systems across Bose platforms.
* Maintaining the stack with Atlassian tools, GitHub, SVN, AWS, Jfrog, Ansible, Splunk, Datadog and Jenkins with complete end to end support.
* Architected and maintained **multi-AZ RDS** environments for automatic failover and improved application resiliency, minimizing downtime during database incidents.
* Written multiple terraform scripts to orchestrate infrastructure like node management, s3 buckets, spin Alb’s, ECS and EKS clusters.
* Worked on setting up apache and kafka used zookeeper to get the framework installed.
* Developed **Ansible** playbooks to run deployments in AWX, install certs, install client-based software’s, promote libraries and dependencies, JDK upgrades and OS patching.
* Upgraded AWS EKS clusters to version 1.17, 1.19 and 1.21 along with creation of IAM roles and enabling health check.
* Created cloud watch dashboards for total requests, incoming/outgoing traffic, 4xx/2xx/5xx logs, CPU, Memory thresholds and multiple alarms for AWS services and app related processes.
* Provisioned, configured, and managed Apache Kafka clusters using **AWS MSK** for high-throughput, low-latency data streaming and event-driven architecture.
* Built enterprise-grade mobile DevOps solutions to support automated provisioning, device testing, and distribution for iOS apps in regulated environments (HIPAA, GDPR).
* Designed and maintained automated test frameworks using **XCUITest** for iOS and **Espresso** for Android, enabling fast and reliable UI testing across multiple device configurations.
* Designed CI/CD pipelines for multiple tech stacks using Jenkins, Azure Devops and spanned multiple pipelines for Java, .Net, function-based applications.
* Implemented migration of DB from **MariaDB** to **Aurora DB** for multi cluster environments along with backup and data sync.
* Written multiple helm charts for deployments, install and upgrade applications for Kubernetes services.
* Setup elastic search and developed microservices using python and Go for front end applications and promoted to higher environments.
* Implemented Blue-green and Rolling deployments **in Kubernetes** to reduce the downtime of the application and running them as zero downtime apps.
* Implemented rolling updates and canary deployment strategies to support a non-stop service reachability and deployment flow.
* Setup multiple dashboards, panels in **Datadog** and setup alerts for s3, lambda executions, real time requests for radius services.
* Used **snowflake** to get the data provisioned and funneled across multiple streams to data warehouse and processed using sql.
* Used AWS services like EC2, VPC, ALB, ELB, S3, IAM, ECS, EKS, Fargate, Dynamo DB, Code Deploy, Cloud watch and RDS.
* Implemented **MQ messaging** to send and receive a inter process cross application messaging system for multiple applications.
* Created **Docker** images using a **Docker file**, worked on **Docker** container snapshots, removing images, and managing **Docker** volumes.
* Developed **python** scripts and used boto3 for calling api’s and scaling services along with controlling multiple service level operations on cloud based and on-premises servers.
* Streamlined DB operations for data sync, copy, export, import, retrieve in **postgres sql , Cassandra DB** using Table plus and other NOSQL databases.
* Building the foundation for DevOpsproject work within multiple Scrum teams using common infrastructure components such as **Jenkins**, **Nexus**, **Git**, **Puppet**, **Vagrant**, **VirtualBox**, **Docker**, **Packer**, **Logstash**, etc.
* Implemented multi-parallel jobs in Jenkins which does **CI**, packaging, Sonar job and deployment job to difference environments such as DEV, TEST and PROD.
* Created job chains with **Jenkins** Job Builder, Parameterized Triggers, and target host deployments. Utilize many **Jenkins** plugins and **Jenkins** API.
* Created **OpenShift** containers with advanced scalability, updated network policies, optimized CI/CD and setup admin interfaces.
* Researched and implemented code coverage and unit test plug-ins like FindBugs, Checkstyle and PMD with **Maven**.
* Extensive experience in building data stores in **AWS** Cloud platform using services like S3, Glue, Lambda, Redshift, EMR, etc.
* Installed and setup **Prometheus** and **Grafana** along with ELK stack alerting for Kubernetes services, app insights, functions, telemetry, log analytics, SignalR and ASP’s.
* Supported the application teams on daily activities including deployments, troubleshooting pipelines, applciations and providing 24/7 support.

**Environment:** Jenkins, AWS, Kubernetes, snowflake, Terraform, Docker, FSQL, MYSQL, GIT, AWS, JFrog, Splunk, Datadog, AppDynamics, Prometheus, Grafana, IOS SonarQube, Perforce, postgres sql , Cassandra DB, Maven, Ant, Chef, groovy, Python, Ansible, OpenShift, Kubernetes, Apache Tomcat, New Relic, Cloud, Visual Studio, Quality center, Oracle 11g, Visual Build

**Apple, Austin, TX Aug'19 to June’23**

**Implementing : Infogain/SSIS**

**Sr.AWS - DevOps Lead Architect**

**Roles and Responsibilities:**

* Designing CI/CD pipelines for multiple tech stacks using Ansible AWX Automation configuring the pipelines and spanning them as turnkey solutions.
* Writing Ansible playbooks for different modules such as deployments, start, stop and health check for multiple applications.
* Collaborated closely with iOS development teams to align DevOps workflows with Swift/Objective-C project structures, Xcode versions, and simulator configurations.
* Analyzing SSE metrics and on boarding new infra as per the requirements with Monsoon firewall bandwidth upgrade and hosts filtering on application and Analysis
* Creating ACL’s using monsoon dashboard for Dev, Test, UAT and PROD environments.
* Commissioning and de-Commissioning of new VM’s, capacity transfer, data center allocation and tier allocation activities for multiple hosts.
* Designed secure iOS code signing strategies using match and Apple Developer Portal integrations, ensuring seamless provisioning profile and certificate management.
* Developed stream processing applications using AWS MSK, integrating with Apache Kafka consumers and producers for real-time data ingestion and event-driven workflows.
* Configured **AWS S3** versioning and lifecycle policies to backup files and archive files in Glacier and created monitors, alarms and notifications for EC2 hosts using Cloud watch.
* Assisting the App teams on deployment activities by following Infosec, PCI, HIPPA regulations and running a secure scan for every activity and providing 24/7 support for the applications owned by SSE-SRE.
* Created alerts and alarms using **AWS CloudWatch,** setup total requests, counts, cpu health, traffic, http requests, 4xx/5xx dashbaords using ALB in both metric based, and query based.
* Implemented **AWS services** to onboard multiple cloud-based applications using **AWS CLI, Snap mirror and Vault, Cloud formation, ECS** for container services, **ELB and ALB** for Load balancing the application sites.
* Used **AWS Life cycle** environment and complete tools set to enable integrations with **ECS scheduled task,** Data Sync, setting RDS proxy and routing traffic via Route 53 end points using Cloud formation.
* Developed micro services using **Python** that will serve data to other products within the legacy and support applications supporting all the platforms.
* Installing and generating SSL certificates using Ansible playbooks and storing the generated keys to validate the certificates in all environments.
* Automated installs and validations of ‘stunnel’, ‘JDK 11’,  ‘ACL validation’, ‘Key store import’, ‘OS patch fix’, ‘health checks’, ‘AppD agent’ and updating properties, path for all the installs done using AWX Templates .
* Opening connections between different hosts and environments with associated ports such as Gcs configuration for AWX on-boarding
* Using **Terraform** to manage infrastructure on multiple cloud environments, service providers, and  
  on-premise server's to utilize services such as compute instances, storage, networking, DNS, and so  
  forth.
* Managed RDS scaling strategies using read replicas and multi-AZ deployments, ensuring optimal database performance and high availability during peak loads.
* Writing groovy scripts to create a Jenkins file for most of the automation activities that is been  
  currently performing manually.
* Coordinate with business subject matter experts (SMEs) and stakeholders to capture key solution  
  features and capabilities for solution design.
* Participating in On call rotations on a regular weekly based scheduled calls to take care of Pro-active  
  outages, P1/P2 level issues and Application connectivity.
* Working on shield vip activities which provides a secure transition layer between the sites accessing and application interface.
* Leveraged Firebase Test Lab and AWS Device Farm to run XCUITest and Espresso suites on physical devices, improving test coverage across OS versions and screen sizes.
* Used **Splunk** extensively for logging mining and monitoring, indexing and co relating data for multiple applications.
* Working on load balancer for site migration activities and traffic redirection and Support the applications for any issues after hours and on weekends during On-call.
* Involve in deployment, Java performance monitoring for JVM, Heap, configuring Data source, session parameters and performance tuning of Apache, WebSphere and WebLogic Servers.
* Implemented and Served as a direct contact in the team as an SME and adviser for Red Hat **OpenShift** Container Platform and used **catch point for** monitoring.
* Written **Docker** files to mimic a U Deploy job for a file copy container and zip/gz to the destination location and also wrapping the container with kube secret.
* Using **Terraform** to manage infrastructure on multiple cloud environments, service providers, and on-premise servers to utilize services such as compute instances, storage, networking, DNS, and so forth.
* Implementing Blue-green and Rolling deployments **in Kubernetes** to reduce the downtime of the application and running them as zero downtime apps.
* Managed the **Jfrog Artifactory** manager completely end to end by user detailed specifications, admin roles, managing packages, dependencies, deployments and REST API configurations.
* Managed and Supported all the CI/CD applications for any issues after hours and on weekends during On-call.

**Environment:** Jenkins, AWS, AWX, MSK, Kubernetes, Docker, FSQL, MYSQL, GIT, AWS, JFrog, Splunk, AppDynamics, IOS SonarQube, Perforce, Maven, Ant, Chef, groovy, Pyhton, Ansible, Openshift, Kubernetes, Apache Tomcat, , Cloud, Visual Studio, UDeploy, , Quality center, Oracle 11g, Visual Build.

**State Street Financial Global Advisors, Boston, MA March'19 to Aug’19**

**Implementing: HCL America**

**Sr.AWS DevOps Lead**

**Roles and Responsibilities:**

* Implementing fully automated server build, management, monitoring and deployment solutionsspanning multiple platforms, tools and technologies including Jenkins Nodes/Agent, Chef, Puppet, Android, VMWare, Amazon EC2r.
* Onsite Lead and maintained a offshore team of 8 from different vendors supporting and enhancing the DevOps culture and day to day activities.
* Setup and implemented **Cloud Bees Jenkins** as a CI tool with master and slave/node (linux and windows ) concept supporting more than 75 applications.
* Setup complex **Jira** workflows for multiple projects utilizing the latest features and plugins from Atlassian marketplace.
* Used Apache webserver in the Linux **AWS Cloud** environment using **Puppet** module automation and configured **AWS S3** versioning and lifecycle policies to backup files and archive files in Glacier and created monitors, alarms and notifications for EC2 hosts using Cloud watch.
* Completely supported **Maven** Build Lifecycle for different projects with build, package, test and deploy artifacts ,resolving POM dependencies and upload jars to non-public whenever required for unsupported builds.
* Used **UDeploy** to perform the **Application Release Automation** and promoted packages to higher environment with effective collaboration between Dev/QA and PROD environments.
* Utilized **SonarQube** as a code quality analysis tool and setup quality gates and error detection indicators by integrating Sonar check in all the Jenkins builds and creating an API.
* Implemented and Served as a direct contact in the team as an SME and adviser for Red Hat **OpenShift** Container Platform.
* Setup and built **AWS** infrastructure various resources, VPC EC2, S3, IAM, EBS, Aurora Security Group, Auto Scaling, Glue Athena and RDS in Cloud Formation JSON templates.
* Infrastructure Automation and Provisioning and managed bootstrapping automation using **Openshift.**
* Highly participating in troubleshooting activities on both Windows and Unix environments.
* Used **'fecru' fisheye crucible** to perform the code reviews , creating reviews by the tech leads and setup projects for the app teams and gave the KT on the tool usage.
* Written **Docker** files to mimic a U Deploy job for a file copy container and zip/gz to the destination location and also wrapping the container with kube secret.
* Using **Terraform** to manage infrastructure on multiple cloud environments, service providers, and on-premise server's to utilize services such as compute instances, storage, networking, DNS, and so forth.
* Implementing Blue-green and Rolling deployments **in Kubernetes** to reduce the downtime of the application and running them as zero downtime apps.
* Automated the process of building new containers and source to image for a build source and enabed rolling deployments using **Openshift.**
* Managed the **Jfrog Artifactory** manager completely end to end by user detailed specifications, admin roles, managing packages, dependencies, deployments and REST API configurations.
* Used the Atlassian source code management tool Bit Bucket to do push/push/merge checks , issue tracking , smart mirroring, snippet tracking and verification .
* Created **Chef Cookbooks and Ansible** playbooks to run the Certs install and verification of certs for different environments passing dynamic values and cert keys.
* Coordinate with business subject matter experts (SMEs) and stakeholders to capture key solution features and capabilities for solution design.
* Improved logging and created log reporting system. Creation of Maven scripts and integrates them into common deployment and auto reverse automation concept .
* Lead production changes, deployment efforts by creating **change requests (CR's), Cab Requests and ITOps** for deployment and rollback strategy and testing to ensure successful deployments to production environments.
* Worked with infra team to create load balancers and used **F5 Verizon** as vendor with failover , traffic re-route and latency options for high availability and fault tolerance.
* Managed and Supported all the CI/CD applications for any issues after hours and on weekends during On-call.

**Environment:**. Jenkins, Docker, Bit Bucket, Fisheye, Crucible, FSQL, MYSQL, GIT, AWS, JFrog, SonarQube, Perforce, Maven, Ant, Chef, groovy, Pyhton, Ansible, Openshift, Kubernetes, Apache Tomcat, , Cloud, Visual Studio, UDeploy, , Quality center, Oracle 11g, Visual Build.

**State Auto Insurance Companies, Columbus, Ohio July'18 to March'19**

**Implementing : Technumen Inc**

**Sr.DevOps/SCDM Engineer**

**Roles and Responsibilities:**

* Articulating the clear project requirement, have clear understanding of project requirements and eyeing for detailing be it requirements, tasks, issues, risks or communications as well ensuring teammembers have enough information to perform tasks, make them accountable.
* Implementing fully automated server build, management, monitoring and deployment solutionsspanning multiple platforms, tools and technologies including Jenkins Nodes/Agent, Chef, Puppet, Android, VMWare, Amazon EC2r.
* Setup and built **AWS** infrastructure various resources, VPC EC2, S3, IAM, EBS, Aurora Security Group, Auto Scaling, Glue Athena and RDS in Cloud Formation JSON templates.
* Used Jenkins and Continua as an Orchestrator to perform automated builds, deployments and creating CI/CD pipelines.
* Installing Chef Workstation and Wrote Chef Cookbooks and recipes in Ruby to Provision several preprod environments consisting of Cassandra DB installations, web logic domain creations and several proprietary middleware installations.
* Using Terraform to manage infrastructure on multiple cloud environments, service providers, and on-premise server's to utilize services such as compute instances, storage, networking, DNS, and so forth.
* Implementing Blue-green and Rolling deployments in Kubernetes to reduce the downtime of the application and running them as zero downtime apps.
* Working with Web IS team for Active directory setup using 389 AD sharing port and development team, Linux and Windows team to lead patch efforts and removing any impediments for the development team on Linux and Windows platform.
* Writing different scripts for Final Builder in the backend and Continua in the front end to perform day to day deployment on a huge scale.
* Writing groovy scripts to create a Jenkins file for most of the automation activities that is been running/performing manually so far.
* Installed/Configured and Managed **JFROG and Nexus** Repository Manager and all the Repositories.
* Developed **Ansible Scripts** and written in Python and allows users to script commands in YAML as an imperative programming using multiple push models to send command modules to nodes via SSH that are executed sequentially.
* Setup **Docker SWARM** on n number of nodes belonging to different environments and made the cluster setup by running a script that can automate through **Chef.**
* Created load balancers (ELB) and used Route53 with failover and latency options for high availability and fault tolerance.
* Implemented TDD framework using IBM Octane along with DVO db to enable multiple framework and automated testing along with the CI/CD pipelines built.
* Creating build scripts using Ant and Maven tools extensively to package the code checked in by the developer and also using Gradle to do multiple build activities.
* Supporting the day-to-day maintenance of the application systems in operation, including tasks related to identifying and troubleshooting application and data issues and issues resolution or escalation.
* Coordinate with business subject matter experts (SMEs) and stakeholders to capture key solution features and capabilities for solution design.
* Ensuring development lifecycle and control processes are followed end-to-end and translatingbusiness goals and end user needs into product strategy; communicates direction and product priorities to the development team, other matrixed teams, and third-party partners.
* Participating in On call rotations on a regular weekly based scheduled calls to take care of Proactive outages, P1/P2 level issues and Application connectivity.
* Collaborating in the automation of Cloud infrastructure via terraforming and Jenkins - software through Black mesh service based configuration via Playbooks and Cookbook scripts.
* Work on load balancer for site migration activities and traffic redirection and Support the applications for any issues after hours and on weekends during On-call.
* Author detailed functional and non-functional business requirements such as user stories, personas, journeys, KPIs and mock-ups that map business strategy, customer demands, and technology delivery.

**Environment:**. Subversion, Jenkins, Docker, Kubernetes, Final Builder, Gradle, Continua, SQL, MYSQL, GIT, Perforce, Maven, Ant, Chef, groovy, Pyhton, Ansible, Apache Tomcat, Mesosphere, Web services, Cloud, Visual Studio, Test Director, Mercury, Quality center, Oracle 11g, Visual Build.

**U.S.House of Representatives, Washington,DC Jan' 18 to June' 18**

**Implementing : RadGov**

**Sr.DevOps/Cloud Engineer, CAO -Advanced Business Solutions**

**Roles and Responsibilities:**

* DevOps Engineer for **CAO Web Systems** responsible for development, maintenance and execution of tools and processes that build and deploy applications.
* Developed, improved, and documented build processes and procedures and will be responsible for software source code, change control, configuration, build and deployment process for **Drupal and .Net** based applications.
* Designed and implemented fully automated server build, management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including **Jenkins Nodes/Agent, Chef, Puppet, VMWare, Amazon EC2r.**
* Worked on **House.gov sites and CWC- Connect with Congress API application** to onboard it on scheduled time which provides a peer to peer messaging among the Congress members, Advocacy Vendors and Public also maintaining the sites to be up and running all the time.
* Configured Apache webserver in the Linux **AWS Cloud** environment using **Puppet** module automation.
* Configured **AWS S3** versioning and lifecycle policies to backup files and archive files in Glacier and created monitors, alarms and notifications for EC2 hosts using Cloud watch.
* Monitored the existing system Using **New Relic, Dynatrace and Nagios** to monitor API's and plugins , CWC and House related applications along with related processes and its core functions within the application.
* Wrote **Ansible** Playbooks for configuration management tasks and Chef Cookbook, recipes to automate installation of Middleware infrastructure like Apache Tomcat, JDK and for configuration tasks for new environments etc
* Leading the **Google Cloud Platform (GCP**) Compute Engine adoption, and I am also responsible for architect   
  and delivered all migration activities relate Legacy Apps to  **Google Cloud Platform (GCP).**
* Migrated data and essential applications from on-prem servers to **Google Cloud Platform (GCP)**.
* Implemented multiple solutions determined by legal acceptance and requested POCs including SMS, CloudFormation, Lambda, S3, Route53, Glacier, RDS, SQS, security groups, route tables, and Elastic Load Balancer. Created user
* Deployed and configured **AWS cloud services** according to best practices such as EC2, VPC, Aurora, Glue, RDS, IAM, CloudFront, Route53, CloudWatch, KMS, Redshift and S3 bucket.
* Managed and  used cloud formation and **AWS CLI** for deploying, managing and automating these database environments with various database platforms running on **EC2 and using cloud formation and AWS CLI** for deploying, managing and automating these database environments.
* Used **Jenkins** as an Orchestrator tool, wrote **groovy scripts to build pipelines** to perform all the continuous automated builds on a day to day periodic and scheduled builds along with overnight to support based on development needs.
* Configured **AWS Identity and Access Management (IAM)** Groups and Users for improved login authentication.
* Provided policies to groups using policy generator and set different permissions based on the requirement along with providing **ARN (Amazon Resource Name).**
* Created Python scripts to totally automate **AWS services** which includes web servers, **ELB, Cloud Front** distribution, database, EC2 and database security groups, S3 bucket and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Implemented **multi-level Docker** containers and **Kubernetes** Clusters for House applications like **CWC, House-Alert Auth and Non-Auth.**
* Designed and developed **.Net and ASp.Net** core applications with **Docker** enabled to Create and maintain documentation of build and release processes and application configuration to comply with audit requirements and industry best practices.
* Created multiple clustering applications using **Docker and Docker-swarm cluster** by splitting monolithic application in to small micro services and running them as small container services using **ECS and KOPS** .
* Designed a end -to-end pipeline using **Jenkins and configuring web-hook**, integrating **Msbuild and Selenium** test cases for Active Directory and **EDC-(E-Dear Colleague)** application, which servers the internal customers of the House.
* Collaborated with Development team, Linux and Windows team to lead patch efforts and removing any impediments for the development team on Linux and Windows platform.
* Implemented **Blue-green deployments in Kubernetes** to reduce the downtime of the application and running them as zero downtime apps.
* Participating in **On call rotations** on a regular weekly based scheduled calls to take care of **Pro-active outages, P1/P2 level issues** and Application connectivity.
* Dealt with **Advocacy vendors and house related vendors** to provide the application infrastructure and allowing them to work on **WAF fire wall access and hosting sites on cloud**.
* Used **Kubernetes** in Production environment and **Docker-Swarm** in Development and Staging environments, and managed **Kubernetes services** like auto-deployments, blue-green deployments, Auto scaling, container monitoring, load-balancing and fixing replication issues.
* Taking immediate action towards p1 level ticket - Proactive outages / p2 level tickets - issues which need immediate attention , not affecting client
* Supported the DB team used **Mysql and Mongo DB** databases to setup a master-master resiliency across the databases and configuring Auth and Rake tables made sure the DB is up and running before making any deployments.
* Lead production deployment efforts by creating **change requests (CR's), Fab Requests** for deployment and rollback strategy and testing to ensure successful deployments to production environments.
* Involvement with the developers in upgrading application, interfacing ,troubleshooting and fixing day-to-day problems of the applications.

**Environment:** GCP**,** .Net, AWS, Subversion, Jenkins, Docker, Kubernetes,Ruby, SQL, MYSQL, GIT, NewRelic, Perforce, Maven, Ant, Chef, groovy, Dynatrace, Web Sphere Application Server (WAS), Web services, Cloud, Visual Studio, Web Logic, Test Director, Mercury, Quality center, Oracle 11g, Visual Build.

**AT&T,**Richardson,TX **Jul' 16 - Dec' 17**

**Implementing: TechMahindra | America Operations**

**Sr. Devops/ Cloud Applications support Engineer**

**Roles and Responsibilities:**

* Worked on complete **Software Development Life Cycle** (SDLC) from gathering requirements to deployment.
* Built Java and EJB based artifacts on the CM Server view using Maven. Deployed, using Maven, these Java and EJB based artifacts which included war, ear and jar files to system test and implemented configuration management (SCM) and change management (CM) using Rational Clear Case, Clear Quest.
* Deployment of applications on the **Tomcat** and Integration of application with Webserver and Database.
* Performed Writing/Modifying existing scripts to automate manual jobs and monitored application, servers and database for any critical alerts.
* Worked on **ecomp** portal and **ONAP** applications which is a open source provided exclusively by **AT&T** for automation processes and on boarded VNF-CM application into ONAP and performed the major releases like 1610, 1702 and 1707 on **ONAP and VNF-CM**.
* Built and configured a virtual data center in the **Amazon Web Services cloud** to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), internet gateway's, Public and Private Subnets, Route Tables, **Elastic Load Balancer(ELB**).
* Provisioned the highly available AWS services like **EC2 Instances using Terraform and** cloud formation and wrote new plugins to support new functionality in Terraform.
* Installed **SWM(CI/CD)** for building automation deployments for upgrades and installs which was carried out by **Jenkins.**
* Created the organizational structure and utilization of **Google Platform Cloud(GCP)** within the organization and managed both accounts at root-level and successfully migrated essential applications.
* Implemented services as a SME on the functional and security controls of **Google App Engine, Google Storage, Compute, Google Functions, and Big Query**.
* Expertise in administration with **Chef** and experience using/administering Open Source or Commercial Off-the-Shelf monitoring tools used for log monitoring, time series data .
* Tenant space migration using **OpenStack** and did disk partitions, adding new interfaces using automated scripts to completely automate VM creation in tenant space.
* Implemented **Docker Containerization** using lightweight, stand-alone, executable package of a piece of software that includes everything needed to run the code, runtime, system tools, system libraries and settings.
* Gathered data as per the application requirement from the **ATT Wiki books** and to prepare the **Business Required Documents** and Release books for project reference and future aspects.
* Administered **Google G-Suite Cloud** environment (Sheets, Forms, Gmail, etc.) and monitored and managed Cisco/Meraki network (via Meraki Dashboard) across different environments and regions .
* Installed **Chef work-station** and wrote the cookbooks and recipes as per the requirement ensuring client.rb, validating perm keys and trusted certs and did the same configuration on respective nodes.
* Responsible for supporting Project Administration, Agile Board Configuration and User Management and issues as they arise with **JIRA Projects** and Confluence in coordination with JIRA hosting partner team.
* Installation of monitoring tools such as **Nagios,splunk,Introscope** and On boarding application onto portal and interfacing it other applications.
* Installed **Dynatrace** on Staging/QA, Pre-Prod and Prod servers and used it extensively for Applications like **VNF-CM, CLAMP and ASDC** to monitor performance management and tracing the job schedulers.
* Used **Introscop**e, **Postgre** and **IBM API** to monitor Java API's and plugins related Java processes and its core functions within the application.
* Using **CI/CD pipeline** managed **Jenkis and UDeploy** to host Web applications, Environments configuration Files, Users, Mount points and Packages.
* Log files analysis for **Apache logs**, application logs and database logs.
* Requested **SSL certificates** for different environments and updated them to **SAN certificates** to support LB, IDNS and resiliency setup.
* Worked on **load balancer** for site migration activities and traffic redirection.
* Set up **Jenkins** server and build jobs to provide continuous automated builds based on polling the Git source control system during the day and periodic scheduled builds overnight to support development needs using **Jenkins,Git,**Junit and Maven.
* Implemented **AWS services** to onboard multiple cloud based applications using **AWS CLI, Cloud formation, ECS** for container services, **ELB and ALB** for Load balancing the application sites.
* Supported the DB team to setup a master-master resiliency across the databases and made sure the DB is up and running before making any deployments.
* Highly participated in **Linux/Ubuntu** administration along with other functions managing different server's like Apache/Tomcat and NoSql databases such as **Cassandra, MariaDB** etc.
* Used **SQL , PL/SQL and MYSQL** commands to setup the **No SQL and T-SQL** database and manage the DB users and access to the customers and end users.
* Maintained and used **Sonar Qube**, **Dynatrace** products to capture reliability, performance, and life cycle data on all applications.
* Used **Netcool** to trigger alarms at crucial and production environment and encounter customer related issues.
* well versed in maintaining the tenant space/cloud environment to spin up instances and make changes through Open Stack using components like **Nova, Cinder, Havana** etc.
* Implemented multi-tier application provisioning in **Open Stack** cloud, integrating it with **Puppet**.
* Deployed Java Enterprise applications to Apache Web Server, **JBoss** Application server.
* Used **Jenkins** to perform automated Builds and Deployments.
* Involved in development of deployment tools for automating end to end deployment process till production.
* Strong in building Object Oriented applications using C++ and Java, writing Shell Scripts and Perl Scripts on UNIX.

**Environment:** J2EE , .Net, JBoss Application Server, SWM, SQL, GCP, Open-Stack,Subversion,Jenkins,GIT, Maven, Ant, Chef, Tomcat, Apache, Linux AWS Services, groovy, Netcool, Web services, Cloud, Web Logic, Quality center, Dynatrace, Oracle 11g, Nagios,Splunk, Introscope, HfRunmonitor.

**Gazelle,** Boston, MA **Oct’15 – June'16**

**Sr. Cloud Application Support / (DevOps) Engineer**

**Roles and Responsibilities:**

* Documented all build and release process related items. Level one support for all the build and deploy issues encounter during the build process.
* Extensively used Maven, Groovy and Ant scripts to build the source code and involved in creating the latest and extended view for end users.
* Used the **Chef** workstation to write cookbooks and recipes , making sure that the automation takes place on every other node in the same environment.
* Extensive experience in Workload Automation with distributed systems using **Ansible** and creating Tenant space.
* Leveraged **AWS cloud services** such as EC2, auto-scaling and VPC to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts.
* Used **AWS Beanstalk** for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on familiar servers such as Apache, and IIS.
* Deployed the code onto web application servers like Web Sphere/Web Logic/ JBOSS/Apache Tomcat.
* Used Akamai's **CDN (Content Deliver Network)** to speed up the delivery of content of websites with high traffic and websites that have global reach.
* Implemented multi-tier application provisioning in **OpenStack** cloud, integrating it with **Puppet**.
* Deployed Puppet, **Puppet dashboard** for configuration management to existing infrastructure and Used **Puppet** to automate Configuration management.
* Used **Jenkins Cloudbees** for extensive build purpose along with ANT and MAVEN.
* Working with an agile development team to deliver an end to end continuous integration/continuous delivery product in an open source environment using **Chef** and Jenkins.
* Used **Chef** that provides with a framework which helps in evading these worn-tools problems and improves infrastructure management to solve every complicated problem.
* Created Chef Cookbooks and **Docker** files using **Docker SWARM** to enable automation of infrastructure deployment  .
* Setup and built **AWS** infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Provided highly durable and available data by using S3 data store, versioning, lifecycle policies, and create AMIs for mission critical production servers for backup.
* Maintained the user accounts (IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS and SNS services in **AWS cloud**.
* In **AWS used API Gateway** on pragmanting big monolithic apps into micro services (**Restful API's**) and making calls to the services using API's.
* Used the load balancing solutions in **AWS ELB** for **ALB (Application Load Balancer)** and **Ec2/individual** instances and ALB for micro services.
* Used facets like Values **and Principles*,* Culture and  Mindset to** effectively utilize even the most efficient processes and tools without people collaboration and support.
* Managed **AWS** EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT and Chef.
* Administered and Engineered Jenkins for managing weekly Build, Test and Deploy chain, SVN/GIT with Dev/Test/Prod Branching Model for weekly releases.
* Created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
* Migrated applications to the **AWS cloud.** and Involved in DevOps processes for build and deploy systems.
* Wrote build/integration/installation scripts in Perl and bash as Conducted detailed research on Mesos- Marathon and **Kubernetes** for container orchestration.
* Production machines - either manually or using scripts specifically written for the purpose.
* Used .Net, Scala and ASp.Net to Create and maintain documentation of build and release processes and application configuration to comply with audit requirements and industry best practices.
* Responsible for writing Hooks and Triggers using Perl. Built Java application using ANT.
* Worked on integrating Unit Tests and Code Quality Analysis Tools like MS Test, JUnit and Cobertura, Clover, PMD, find bugs and check style.
* Deployed **JAVA/J2EE** applications through Web Logic/Web Sphere Application servers. Comfortable and flexible with installing, updating and configuring various flavors of UNIX and Windows.
* Involved in development of deployment tools for automating end to end deployment process till production.
* Strong in building Object Oriented applications using C++ and Java, writing Shell Scripts and Perl Scripts on UNIX.

**Environment:**J2EE , .Net, AWS Services, Subversion, Jenkins, SQL, MYSQL, GIT, Perforce, Maven, Ant, Chef, Apache Camel, Puppet, Web Sphere Application Server (WAS), Web services, Cloud, Web Logic, Dynatrace, Test Director, Mercury, Quality center, Oracle 11g, Visual Build.

**SunGard K-12,** Bethlehem, PA **Sep'14 to Jul’15**

**Sr. Build and Release Engineer(DevOps)**

**Responsibilities:**

* Analyzed the **ANT** build projects for conversion and converting to Maven build projects.
* Developed and maintained **UNIX/Perl/Maven** scripts for build and release tasks.
* Used ANT and Maven as a Build Tools on Java Projects for the Development of Build Artifacts on the Source Code.
* Provided detailed testing and implementation documentation for all testing and code deployment activities.
* Used **Chef** immensely to decrease the amount of documentation you ought to write and **Chef** doesn’t change the scalability of the Bash.
* Implemented continuous integration process using **PUPPET.**
* Written wrapper scripts to automate the deployment of cookbooks on nodes and running **the chef-client** on them in a Chef-Solo environment.
* Coordinating the resources by working closely with Project Manager’s for the release of the Application and maintaining **Application Security** for all the Operational Projects.
* Worked on Installation, Configuration and Maintenance of Unix/Linux (RHEL/SUSE/CentOS /AIX) OS.
* Used **SVN, GIT and Bit Bucket** for branching, tagging and merging.
* Used **JIRA** as a Change Management/ Work Management/ **SCRUM** Agile Tool.
* Responsible for design and maintenance of the **Subversion Repositories** and the access control strategies.
* Wrote **ANT** and **MAVEN** Scripts to automate the build process.
* Presented **strong Leadership abilities** in gathering the project requirements and interacting efficiently with the **business users** and end customers for better efficacy of the deliverables.
* Used Jenkins for Continuous Integration and deployment into Tomcat Application Server.
* Developed and implemented application enhancements using Java/J2ee, Struts, JavaScript, and UNIX shell scripts.
* Designed, configured and deployed Microsoft **Azure** for a multitude of applications utilizing the **Azure** stack (Including Compute, Web & Mobile, Blobs, Resource Groups, **Azure** SQL, Cloud Services, and ARM), focusing on high-availability, fault tolerance, and auto-scaling .
* Using **AWS Docket container services** implemented **Ecs container solution** for building multiple micro services (Docker containers) across a single cluster in order to provide better utilization of resources.
* Deployed applications using **Amazon ECS** using images that are built from a **Docker** file that are included in the container and those images are then stored in a registry that can be downloaded and run on your container instances.
* Used **AWS Elastic Search** to automatically replace failed nodes and spin a new node and add it to the cluster and add/remove nodes through an **API**.
* Used **Ansible** to manage Web Applications using **Apache KafKa**, Config Files, Data Base, Commands, Users Mount Points and Packages.
* Extensively used **.NET** and tools in the **APM** space that support .NET to focus on finding an end-to-end solution and profiler-like visibility into transactions.
* Extensively used facets like **Methods & Practices and Tools & Technologies to** DevOps platform and capability that broadly depend on the people, processes and technologies involved.
* The **Tools & Technologies Methods** especially used for Agile practices that can be performed with effective use of tools and technologies for Continuous Integration & Build, Continuous Release & Deployment, Continuous Testing through effective automation.
* Collaborate in the automation of AWS infrastructure via terraform and Jenkins - software and services configuration via chef cookbooks.
* Widely used **SQL** commands to run the scripts in the **Cassandra** DB server's in order to pull the data and also for testing purposes.
* Used **CDN** and Struts tag libraries (html, logic, and bean) in the development of JSPs.
* Wrote UNIX shell scripts to fetch, parse, and load **UCD** data from external sources.
* Converting production support scripts to chef recipes.
* Automated Weekly releases with **ANT/Maven scripting for Compiling Java Code**, Debugging and Placing Builds into **Maven Repository.**
* Deployed Java/J2EE applications on to Apache Tomcat application servers and configured it to host the wiki website.
* Coordinated with software development teams and QA teams on issues and solved the problem.

**Environment:**Web Services, Java/J2EE,GIT,​IBM Rational Clear Quest, Jenkins, SVN, Chef, ANT, Apache Camel, MAVEN, Shell (bash), Apache Tomcat Application Server, Linux, SQL, Python.

**Chain-Sys India,** INDIA **Oct’12 to Jul’14**

**Sr. Build/Release Engineer/System Admin**

**Responsibilities:**

* Worked as Release Engineer in a team that involved different development teams and multiple software releases.
* Managed **SVN** repositories for branching, merging, and tagging and wrote **Shell/Perl** Scripts are developed for automation purpose.
* Build and Administered Nexus for **Maven** build’s to share the artifacts within the company.
* Setup Git repo server to keep the source code for code management. Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, Chef, and custom Ruby/Bash scripts.
* Involved in Setting up the backup server for **Jenkins** and prepared disaster recovery plans for **Jenkins and bamboo**.
* Maintained multiple Windows servers using **Team Foundation Server (TFS)** and built using Visual studio.
* Used **Puppet** to automate Configuration management.
* Used **Puppet** to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points and Packages.
* Used **Chef** to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points, and Packages.
* Converting production support scripts to chef recipes.
* Closely worked in Research of the project application architecture to support/resolve build, compile and test issues/problems.
* Merged release branches to the trunk after the production release and resolved the conflicts rose during the merge in **Subversion**.
* Deployed Java/J2EE applications to Application servers in an Agile continuous integration environment and also automated the whole process.
* Required to provide root cause analysis of any business impacting issues as well as a plan to prevent its recurrence.
* Gathered all the stakeholder approvals, necessary signoffs while acting as a release manager for two development teams.
* Articulated the  clear project requirement, have clear understanding of project requirements and eyeing for detailing – be it requirements, tasks, issues, risks or communications as well ensuring team members have enough information to perform tasks, make them accountable.
* Involved with the developers in troubleshooting and fixing day-to-day problems of the applications.

**Environment :** Java, ANT, Chef, Puppet , SQL, MYSQL,Windows/Linux, C#, SVN,TFS, Jenkins, Java/J2EE, IIS ,TFS, Cloud, Web Sphere 6.1.1,Powershell,Perl Scripts, Shell Scripts, Unix/ Linux environment.

**CelkonImpex,**HYD**,** INDIA **Mar’10 to Aug'12**

**Systems Analyst/Linux Admin**

**Responsibilities:**

* Developed build and deployment scripts using Maven and ANT as build tools in Jenkins/Hudson to move from one environment to other environments.
* Assisted telephonic customers and other online services regarding BO processes on phone conversations and documented the required scenarios.
* Created Jenkins Workflows for pre deployment process (DB execution, Environment configuration changes etc.) on both QA and preproduction Environments.
* Administered, maintained Red Hat 3.0, 4.0, 5.0, 6.0 AS, ES, Troubleshooting Hardware, Operating System Application & Network problems and performance issues and deployed latest patches for, Linux and Application servers, Performed Red Hat Linux Kernel Tuning.
* Used **Yum and RPM** packages to install multiple software's on Linux platforms across different environments.
* Experience in implementing and configuring network services such as HTTP, DHCP, and TFTP.
* Install and configure DHCP, DNS (BIND, MS), web (Apache, IIS), mail (SMTP, IMAP, POP3), and file servers on Linux servers.
* Primary duties include Build and Deployment of the java applications onto different environments Dev, QA and UAT.
* Worked with GIT and Subversion to manage source code
* Participated in the release cycle of the product which involves environments like Development QA UAT and Production
* Builds and deploys J2EE application in JBoss using Python scripts
* Integrated Maven with Subversion to manage and deploy project related tags.
* Working closely with Web Administrators to understand, participate, and experience the technical architect for web sites such as Apache, JBoss, WebSphere, WebLogic; and deploying J2EE Applications to these environments.
* Installed and administered repository to deploy the artifacts generated by Maven and Ant and to store the dependent jars which are used during the build.
* Written Shell scripts to apply the Integration label to all the files which needs manual labeling of files.
* Gathered all the stakeholder approvals, necessary signoffs while acting as a release manager for two development teams.

**Environment:** Java/J2ee, RHEL, Ubuntu ANT, Maven, Subversion, Git, GitHub, UNIX, Rally, Shell, Artifactory, C, C++, Jenkins/Hudson, Python, JBoss, WebSphere, Confluence, Linux, MYSQL, Shell Scripting.

**Education:**

Bachelors of Engineering, PITAM,**ANNA University**, Chennai, India.

**ACTIVITIES**

AWS certified solutions architect - License AWSASA-30683

