**SIVARANJITH**

**Sr. AWS / DevOps Engineer**

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**Professional Summary:**

**7+** years of IT Industry experience with Configuration Management, Build, Deploy, Release Management and Quality Assurance. And has sound knowledge of technologies including Linux platform, AWS on major services like EC2, Route53, Cloud formation, S3, ELB, ECS ECR, Cloudtrail, Cloudwatch, RDS, Elasticache, EFS, IAM , Code Deploy, Code Pipeline , AWS Lambda, and Elastic Search etc, Build & release using the deployment using open source Jenkins/ Circle CI with CI/CD implementation , Apache & Nginx, HashiCorp open-source tools like vagrant, vault, packer & terraform for hybrid cloud automation, Log management using ELK & EFK, Extensive utilization of cookbooks (recipes) of CHEF for configuration management, Creating the micro service architecture using the docker and docker orchestration tools like Kubernetes (K8’s), Automation/Configuration Management

* Experience in branching, tagging and maintaining the version across the environments using SCM tools like **GIT** on UNIX.
* Good understanding of the principles and best practices of Software Configuration Management (SCM) in **Agile, scrum, and Waterfall** methodologies.
* Skilled at leading teams mentoring team members, establishing lightweight software configuration.
* Experience in **Linux system administration**, DevOps, AWS Cloud platform and its features.
* Managing **Amazon Web Services (AWS)** infrastructure with migration, automation and configuration management tools such as Chef, ,Ansible or custom-built.
* Cloud Provisioning in AWS for PaaS services (Mesos, Marathon, Docker, Consul, Hadoop, Cassandra)
* Experience in RDBMS and **NoSQL installation** and support including **Oracle, SQL Server, MySQL, Mongo DB**.
* Experience in configuring and maintaining ETL tools like Informatica, Tableau.
* Experience in installing performance monitoring tools like **New Relic** and infrastructure monitoring tools like **Nagios**.
* Hands on experience on **Terraform** a tool for building, changing, and versioning infrastructure safely and efficiently.
* Work with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Actively worked on Docker and deploying and maintaining Micro services in Dev & QA environment using Docker,Mesos ,Marathon and Terraform
* Experience with **Data pipeline** for database backup in different databases.
* Good understanding of the principles and best practices of Software Configuration Management (SCM) in Agile, scrum, and Waterfall methodologies.
* Expertise in installing, configuration and administration of **Tomcat**. Understanding of cloud based deployments into Amazon EC2 with chef.
* Experience with AWS services like EC2, VPC, S3, ELB, Route53, SES, SNS, RDS, CloudFront, Elastic Cache Cloud Watch etc
* Supporting day to day activities (Deployments, Clarify cases handling, Change Control
* An automated deployment pipeline for application code, configuration and patches designed for frequent releases(build, deploy, test, and document).
* Worked on building automation pipeline to deploy and orchestrate services in AWS
* Setup and build AWS infrastructure resources VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling and RDS in Cloudformation JSON templates
* Experienced in Cloud automation using AWS Cloudformation templates.
* Designing highly available cost effective and fault tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance and AMIs.
* Responsible for designing and implementing cloud-based solutions for public cloud deployment models for a variety of mid-size companies. Experience in Chef-Configuration tool.
* Experience managing and integrating test automation tools like Selenium, Fitnesse, Jasmine into various points in a development pipeline
* Worked in EC2, S3, ELB, Auto scaling Servers, Cloudformation, Cloudfront, RDS, VPC, Route 53, Cloudwatch, IAM Roles, SNS subscription service.
* Monitoring AWS Instances regularly using ops view and New Relic tools.
* Proficient in AWS services EC2, IAM, S3, VPC, ELB, RDS, EBS, and Route 53.
* Created and Configured Jenkins pipeline Configured and administered Jenkins for Continuous Integration and deployment into Tomcat Application Server jobs and template workflows to improve reusability for building pipelines.
* Automated configuration changes for all environments in cloud using chef, and developed various modules and templates for different application roles.
* Used Bash/Python script to automate build and deployment Process.
* Experience in Monitoring tool such as Nagios, JIRA, AppDynamics.
* Developed python modules to automate processes in AWS (AWS cloud formations/ Ec2, boto3 API).
* Coordinated with developers, Business Analyst and Managers to make sure that code is deployed in the Production environment.
* Maintenance and monitoring of docker in a cloud based service during production and set up system for dynamically adding and removing web services from a server using docker.
* Configuring cloud application with different third party tools like New Relic
* AMI Creation for CD/CI using boto3 API’s and made automated python script to run every quarterly to update the Ami security patches
* Worked on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, Auto scaling to design cost effective, fault tolerant and highly available systems.
* Experienced in Cloud automation using **AWS** CloudFormation templates
* Experience in installing and configuring FTP, Syslog, and IBM QRadar servers.
* Developed and managed release management processes and procedures including approval checklists ensuring software builds and releases meet business requirements, are installed correctly.
* Have wide knowledge and experience of software and deep understanding of computer.
* Architecture, operating system, software development full cycle, process and methodology. Used Appdynamics for monitoring the application, install the necessary widgets within the required applications.
* Used Splunk and Appdyanmics for performance and log monitoring, created dashboards and alerts for Splunk.
* Automated Clear Case based release management process including monitoring changes between releases.
* Strong knowledge on source controller concepts like Branches, Merges and Tags.
* Extensive experience in the design and implementation of Continuous Integration, Continuous delivery, Continuous Deployment and Devops processes for agile projects.
* Working with technologies and platforms including **Java, Jenkins, SVN, Git**, **Oracle, Unix/Linux, Docker Swarm and Docker, vagrant, Chef,** AWS across the Financial, broadcast and financial sectors.
* Experience with configuration and maintenance of automation tools like **Chef, Ansible** and **Chef**.
* Created and deployed a tool to automate branch and project creation in SVN using Perl, Chef and scripts.
* Experience working with **AWS Cloud computing** and involved in creating AWS instances and deployed Linux and Red-hat on AWS environment and expertise in migrating applications onto AWS.
* Experience in installing and configuring sonarQube.
* Actively worked on Docker and deploying and maintaining Micro services in Dev & QA environment using Docker,Mesos ,Marathon and Terraform
* Provisioned **AWS S3 buckets** for backup of the application and sync these contents with remaining **S3 backups**, by creating entry for **AWS S3** SYNC in **crontab**.
* Have excellent logical, analytical & debugging skills.
* Efficient in working closely with teams to ensure high quality and timely delivery of builds and releases.
* Closely worked with Developers **and Analysts** to address project requirements. Able to effectively manage time and prioritize multiple projects.
* Strong ability to troubleshoot any issues generated while building, deploying and in production support.
* Experience in working on source controller tools **like Subversion (SVN), GIT concepts like Branches, Merges and Tags**.

**Education:**

**Bachelors in Computer Science**

**Technical Skills:**

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| **Languages** | C, C++, Java, J2EE |
| **Scripting** | Ruby, Python, Unix Shell scripting, Perl scripting, XML. |
| **Area of Work** | Release management, Deployment/Migrations, Environment management, Continuous Integration, Configuration Management, Production Support. |
| **Database** | SQL Oracle, MySQL, Mongo DB, Terradata . |
| **Cloud services** | AWS (EC2/SQS/SNS/S3/IAM/ELB), Azure, Rack space. |
| **Configuration Management Tools** | Chef, Puppet, Ansible, Terraform. |
| **CI Tools** | Jenkins/Hudson, Teamcity, Bamboo, Atlassian Suite Stash, Anthill Pro, UDeploy, X Deploy. |
| **Management Tools** | JIRA, Remedy, Service Now, Confluence. |
| **Virtualization Tools** | VMware, vSphere, Oracle Virtual box, VMware Workstation.  **Networking**: TCP/IP, NIS, NFS, DNS, VPN, DHCP, WAN, SMTP, LAN, FTP/TFTP, VMware nexus switch, IP Networking, F5 load balancer. |
| **Monitoring Tools** | Nagios, log stash, Stack driver, Graphite, AWS cloud watch, SPLUNK, Appdynamics |
| **Version Control Tools** | Subversion, Git/Stash, ClearCase, TFS, GIT, GIT Hub, SVN, Perforce, CVS, Harvest. |
| **Web Technology** | XML, HTML5, XHTML, CSS 3, SOAP,REST, JSON, J Query, JavaScript, Angular JS, WSDL, Backbone JS, Bootstrap |
| **Web Service Tools** | Web Logic, Web Sphere, Apache Tomcat, JBOSS, IntelliJ IDEA, Oracle Web logic, IBM Web sphere, IIS, Server |
| **Bug tracker &Testing** | JIRA, Bugzilla, Redmine, J unit, J Meter Test Flight, Test Rail, Selenium,SoarQube |
| **Build Tools & Container Services** | Ant,Maven,Perforce,Mercurial,Docker ,Swarm,Kubernetes,Mesos,Marathon. |

**Professional Experience:**

**Hilton Worldwide , Memphis , TN March 2016 - Present**

**Sr. AWS / DevOps Engineer**

**Description:-**Responsible for implementation of Software Configuration Management processes, control and build of new versions, updating releases for software applications. Automated, enhanced, streamlined and maintained the build processes and Supported development engineer on build related issues and reviewed usage of build tools and compliance with build related guidelines/rules of the project.

**Responsibilities:**

* Implementing new projects builds framework using **Jenkins** & **maven** as build framework tools
* Implementing a **CI/CD (Continuous Integration /Continuous Delivery)** framework using **Jenkins**, **Maven** & Artifactory in Linux environment and Integration of **Maven/Nexus, Jenkins, Git, Confluence, Jira and Cloud Foundry**
* Installed and configured **Jenkins** for Automating Deployments and providing a complete automation solution.
* Maintained build related scripts developed in **ANT** and shell. Modified build configuration files including **Ant**’s build.xml.
* Worked with development team to migrate **Ant** scripts to **Maven** and Worked on authoring pom.xml files, performing releases with the **Maven** release plugin and managing **Maven** repositories.
* Installed and configured and maintained **Informatica** ETL tool for reporting.
* Created users and assigned responsibilities in Linux platform for **Informatica** Developers.
* Supported in generating ETL (**Informatica**) reports for Business Analysis
* Infrastructure deployment automation tool Terraform
* Involved in Provisioning AWS Infrastructure using Terraform scripts from Jenkins
* Improved our existing Terraform-based provisioning tooling.
* Installed packages on remote Agent less nodes through **Ansible** playbooks with **Ansible** roles.
* Wrote **Ansible** playbooks and securing a server with **Ansible** and Provisioning, deployment with **Ansible** and Worked on developing **Ansible** Go Scripts for automating regular tasks
* Wrote **Ansible** playbooks to launch **AWS** instances and used **Ansible** to manage web applications, configuration files, used mount points and packages and Worked on playbooks for **Ansible** in **YAML** scripting
* Deploying multi-stack software builds to various environments (VMs, Cloud instances, etc.) using automation tools like **Ansible** and **Chef**, minimizing downtime.
* Worked on installing of **Docker** using **Docker** toolbox and worked on creation of **Docker** containers and **Docker** consoles for managing the application life cycle.
* To achieve Continuous Delivery **(CD)** goal on high scalable environment, used **Docker** coupled with load-balancing tool **Nginx**.
* Implemented several **Tomcat** Instances by using the **Docker** engine for running several Containerized AppServers
* Deploy and configure **Git** repositories with branching, forks, tagging, and notifications. Experience and proficient in deploying and administering **GitHub**
* Configuring and deploying instances on **AWS** environment and Data centers, also worked **with EC2, Cloud watch, Elastic Search** and managing **security groups** on **AWS**.
* Designed **AWS** Cloud Formation templates to create custom sized **VPC**, **subnets**, **NAT** to ensure successful deployment of Web applications and database templates.
* Provide 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.
* Worked on creation and managing IT infrastructure and application stack using **AWS** **Cloud Formation** and writing the template file using **JSON**.
* Managed data stores and **Vcenters** with **VMware** Installation and **ESX hosts** configuration
* Worked on Installation/Configuration/Administration of **VMware ESXi 5.1/5.5/6.0** and migrated the existing servers into the **VMware** infrastructure
* Implemented automated local user provisioning in instances created in **OpenStack** cloud through **Chef** Recipes.
* Utilized Configuration Management Tool **Chef** & created **Chef** Cookbooks using recipes to automate system operations. Server automation with **Chef** and used tools like **Maven** for deployment and build management.
* Worked on provisioning different environments using **Chef**, **Ansible** and other Configuration management tools.
* Written **Chef** Cookbooks for installing **Tomcat, JBoss, Nginx, WebLogic,** and **WebSphere** for configuring load balancers and fail over.
* Created and maintained **Python** scripts for Automating Build and Deployment Process and Creating Web Based Application by Using **Django Framework.**
* Utilize **Nagios** based Open Source monitoring tools to monitor **Linux Cluster nodes** configured using Red Hat Cluster Suite.
* Created scripts in **Python** which integrated with **Amazon API** to control instance operation
* Installed, Deployed **Red Hat Enterprise Linux 6.x/7.x, CentOS** and installation of packages and patches for **Red Hat Linux Servers.**
* Assists with review and recommendations for system acquisitions, planning and selection of operating systems software and hardware. Motivated self-starter; able to spark an interest and take an initiative.

**Environment:** AWS (EC2, S3, RDS, EBS, and Elastic Load Balancer, Auto scaling groups and optimized volumes, EC2 instances),Mesos, Marathon, VPC, subnets, SonarQube, Informatica, ELB, Security Groups. VMware ESXi 5.1/5.5 & 6.0, Jenkins, Docker, Docker containers, Ansible, YAML scripting, Chef, Ruby Scripts, Python Scripts, Perl Scripts, Shell Scripts, GIT Repositories, JIRA, RPM/YUM , Apache and MySQL database. JBoss, Apache, WebLogic, Terraform,Tomcat and WebSphere, SSL enabled, SMTP, netapp storage LUNs to the Red Hat Linux servers.

**Wells Fargo , Fremont, CA September 2014 – February 2016**

**AWS / DevOps Engineer**

**Description:-** Worked in several roles in various capacities as a DevOps Engineer managing and delivering the deployments and as a DevOps Engineer Installed and configured Chef for Automating Deployments and providing a complete automation solution

**Responsibilities:**

* Expertise in hardening, **Linux Server** and Compiling, Building and **installing Apache Server** from sources with minimum modules.
* Created and applied Baselines and Labels for each Build **Artifacts**.
* Extensively worked on **Jenkins** and **Team City** for continuous integration and for End to End automation for all build and deployments
* Managing Jenkins jobs based on **groovy** and **Maven script,** also use plugins at some points for test builds, promote the artifacts to s3 and Jfrog, also setting up multi-pipeline jobs to build based on dependencies.
* Using **Cloud Trail** to track AWS account activity .
* Installed packages on remote Agent less nodes through **Ansible** playbooks with **Ansible** roles.
* Wrote **Ansible** playbooks and securing a server with **Ansible** and Provisioning, deployment with **Ansible** and Worked on developing **Ansible** Go Scripts for automating regular tasks
* Wrote **Ansible** playbooks to launch **AWS** instances and used **Ansible** to manage web applications, configuration files, used mount points and packages and Worked on playbooks for **Ansible** in **YAML** scripting
* Created Docker containers to deploy and run various web applications. Also, was a part of team for analyzing micro services management using Docker, Apache Mesos and Marathon.
* Setup a test environment of cutting edge container technologies including Docker, Apache Mesos, Marathon and Prometheus for monitoring.
* Infrastructure deployment automation tool Terraform
* Installed and configured and maintained **Informatica** ETL tool for reporting.
* Created users and assigned responsibilities in Linux platform for **Informatica** Developers
* Involved in Provisioning AWS Infrastructure using Terraform scripts from Jenkins
* Improved our existing Terraform-based provisioning tooling.
* Deploying multi-stack software builds to various environments (VMs, Cloud instances, etc.) using automation tools like **Ansible** and **Chef**, minimizing downtime
* Architected and designed Rapid deployment method using Ansible to auto deploy servers as needed.
* **Ansible playbooks** to automate the deployment of the applications to different **Prod/ QA** Environments.
* Helped to establish the physical environments to perform effectively the software builds and deployments with an **emphasis on quality, integrity, and** security.
* Used monitoring tool **JIRA and also triggered** the issues and maintained bugs using **JIRA tool**.
* Installation, configuration and maintenance of different Linux Distribution servers like Debian, **RHEL, CentOS Servers at** multiple Data Centers.
* Experience in bootstrapping, agent installation scripts, **yum updates, EBS**, mappings and mountings.
* Handling source control using Perforce and **GitHub**.
* Administration of client computer using **SSH and FTP**.
* Configured JIRA workflows, User management and custom dashboards according to the needs to the CM team and integrated the project management features of JIRA with the build and release process.
* Analyzed and monitored incident management and incident resolution problems.
* User account management, worked with **Perl, shell scripting (bash)** to automate administration tasks.
* Analyzed security based events, risks and reporting instances.

**Environment :** Java/J2ee, Eclipse, Docker, Chef, AWS (Amazon Web Services) Ant, Mesos, Marathon,Maven, Subversion, Power Shell Scripting, Linux, SVN, GIT, Python, Ruby, Informatica, Sonar, Jenkins, Bitbucket, Centos, PERL, BASH, Solaris, Terraform,UNIX.

**PNC Bank, Pittsburgh July 2013 – August 2014**

**Build and Release Engineer**

**Description:-** PNC Banks Inc. is fifth largest bank holding company and a financial holding company. PNC is specialized financial businesses serving companies and government entities and Asset management and processing business, including deposit, credit, and mortgage banking, and trust and investment services. As a DevOps engineer, I was responsible to build and run large-scale web production systems and application environment to ensure site reliability.

**Responsibilities:**

* Designed and implemented fully automated server build, management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including **Jenkins Slave Nodes/Agent, Chef, Android, VMware.**
* Worked on using multiple data sources ranging from oracle and TerraData,source to build recurring code to implement in Dashboards
* 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.
* Automated Clear Case based release management process including monitoring changes between releases.
* Solid understanding of Linu**x shell and Perl scripting, UNIX, Windows**, build and release engineering principles.
* Worked with **Oracle Database Admin** to keep all the specified tables as assigned by developments in sync for every release
* Provided periodic feedback of status and scheduling issues to the management.
* Implemented **Maven** builds to automate **JAR/WAR** files and Develop automated deployment scripts using **Ant/Maven** and **Python** to deploy war files, properties file and database changes to development server or QA server and Staging/Production server.
* Created the  **Architecture** with  **Master** and  **Agent** for the **Configuration Management**.
* Worked on creation of  **Manifest** files to install tomcat instances and to manage configuration files for multiple applications.
* Wrote  **modules**  for installing and managing java versions.
* Participated in architecting, designing and implementing all stages of new application deployment in AWS by using **Chef and AWS** combined functionality, personally built out all application servers, database servers, and a peer-aware **NFS** content network.
* Configured services, devices & applications of **UNIX servers** and worked with team to customize the environment.
* Maintain and track inventory using Jenkins and set alerts when the servers are full and need attention.
* Developed and deployment scripts using **ANT and MAVEN** as build  tools in **Jenkins** to move from one environment to other environments.
* Deployed the archives to **Tomcat** Application Servers.
* Used ClearQuest for tracking bugs and issues. Also partially administered it by designing custom workflows.
* Used **Subversion** in **branching**, **tagging** and **merging** the **Source Code** and also managed the source code repository.
* Integrated **QTP** kickoff scripts as Post **DEV** Deployment steps to return smoke test results.

**Environment :** Maven, GIT, CVS, , Linux/Unix, NOSQL, VMAX, AWS, Shell, Python, SCM, Tomcat, JIRA, SASS, Gulp, NPM, SysDig, Data Dog,  TFS, AppDynamics, Nagios, Zabbix.

**Kotak Mahindra Bank ltd, Mumbai October 2011 – June 2013**

**Build and Release Engineer**

**Responsibilities:**

* Experience in User Management and Plug-in Management for **Jenkins**.
* Participated in weekly release meetings with Technology, stakeholders to identify and mitigate potential risks associated with the monthly releases.
* Developed build scripts using **ANT** as the build tool for the creation of (**WAR files**) build artifacts.
* Involved in troubleshooting the automation of Installing and configuring **JAVA** applications in the test and pre-production environments.
* Built and Deployed **java** source code into application servers in an A**gile** continuous integration environment.
* Experience with code hygiene tools such as **Checkstyle, PMD, and JaCoCo**.
* Coordinated build activities to ensure each system is documented - including all hardware components, **OS versions**, and application software versions.
* Configured **Jenkins as a CI engine** to build and promote applications to **QA, UAT** and Staging to Linux environments.
* Actively worked with various teams to create new Jenkins build and deployment jobs according to their requirements.
* Involved in Git to Stash migration activities.
* Used Fisheye/Crucible to review the **Shell/Perl scripts** written by team members.
* Written Chef Cookbooks to install software's on new buildmachines.
* Developed build scripts using **ANT** as the build tool for the creation of (**WAR files) build artifacts.**
* Used to make sure all the Jenkins slaves are in sync
* Monitored software, hardware, and/or middleware updates and utilizing technologies like **Jenkins/Hudson, Ant, MS build, and Subversion**.
* Deployed and configured Git repositories with branching, forks, tagging, and notifications. Experienced and proficient deploying and administering **GitHub**.
* Scripting of administration tasks using **Command Line (CLI), Power Shell, Shell Scripting, Ruby** etc.,
* Handling complete Build and Release process including code, documentation and supporting testing team along with the server Administration.

**Environment :** Subversion (SVN), Jenkins, Java/J2EE, ANT, MAVEN, , TC Server, Tomcat, Python Scripts, Shell Scripts, XML, UNIX, JIRA.

**Quality Care India Ltd, HYD October 2009 – September 2011**

**System administrator**

**Responsibilities:**

* Installed, configured, troubleshoot, secured and supported **Red Hat , CentOS**  and **Linux servers** and also product servers.
* Created and modified application related objects, created Profiles, users, roles and maintained system security
* Responsible for setting up cron jobs scripts on production servers.
* Monitored System Activities like **CPU, Memory, Disk and Swap space usage** to avoid any performance issues.
* Create custom logging, reporting, and graphing tools to analyze application component bottlenecks, enable problem notifications, enhance hardware, database
* Redesign and implement **DNS** infrastructure to reduce complexity, working .Net Platform, improve performance, simplify administration, and facilitate deployment automation.
* Redesign network configuration and specify deploy and configure hardware to reduce latency, increase bandwidth, improve reliability, simplify administration, eliminate many existing problems, enhance security, and facilitate deployment automation.
* Troubleshoot various systems problems such as application related issues, network related issues, hardware related issues etc.

**Environment**: Java/J2EE, Red Hat , Centos , Dhcp, Perl, Shell, UNIX, MS SQL Server.