**Shashikanth Sarabudla**

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**AWS Certified Cloud Developer Associate**

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| **PROFESSIONAL SUMMARY:** |
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* IT Professional with **8 years of experience** in IT industry, 4 years of experience on **DevOps/Cloud Engineer, Build and release** management. Experience in all stages of the Software Development Life Cycle (**SDLC**), **Waterfall**, **Agile** environment and server-side deployment in the application, middleware layers. 4 years of experience as Linux Administrator
* Expertise in **Amazon AWS Cloud** Administration which includes services like **EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, OPS Work, Security Groups,** etc. The Configuration of the **DNS** server in **AWS** cloud using **Route53** and developed AWS **Cloud Formation** templates using **YAML** script to create custom sized **VPC**, **subnets**, **NAT**, **EC2**.
* Expertise in working in GCP **Kubernetes** env and docker orchestration environment. Working closely with the development team and testing team in optimizing **AWS EC2 instances** size and **Docker containers.**
* Experience in developing **Azure Runbooks** in **PowerShell** to manage hybrid Cloud environment, by creating **ARM** templates to define important Azure resources like VM, Virtual Networks, Network security groups, Blob storages, Azure SQL as a code.
* Experience in Installing, Configuring, Monitoring tool such as **Splunk**, **Nagios**, **AppDynamics** for Resource Monitoring/ Network Monitoring/log trace Monitoring.
* Hands-on experience in integrating various **Versioncontrol** tools like **GIT/SVN**, **build** tools (**Maven, ANT**), **nexus** and deployment methodologies (scripting) into **Jenkins** to create an end to end **orchestration** build cycles.
* Experience in authoring **pom**.**xml** files, performing releases with the **Maven** release plugin, and managing artifacts in **Sonar** type **NEXUS** repository.
* Hands-on experience in **Installing**, **deploying** and **managing repository generated by Maven and Ant artifacts**, and store the build process using the dependency jar.
* Experience in providing support for technical requirements in automating the deployments in a cloud environment using **Jenkins, AWS, OpenStack, Docker, Azure** and **Cloud Form**.
* Experience in developing an end-to-end Continuous Integration Pipeline using **Jenkins** for enabling a containerized local control plane using **Kubernetes**.
* Automate provisioning and repetitive tasks using **Terraform** and **Python**, Docker container, Service Orchestration
* Hands-on experience with **Docker** container snapshots, attaching to a running container, removing images, managing the directory structures and containers.
* Maintained **Continuous Integration** environment for the applications using the tools like **Jenkins** and **Bamboo**, and **Continuous Delivery**/provisioning using tools like **Ansible**, **Salt**, **UDeploy**.
* Experience in creating team specific **Agile** process flow in **JIRA** to move tasks from one activity to another and created customized **dashboards** for the teams.
* Experience in Automating various infrastructure activities like Application Server setup, Continuous Deployment, Stack monitoring by creating Ansible playbooks in **Ansible Tower** and Integrated Ansible with **Rundeck** and **Jenkins**.
* Production experience in large environments using **configuration management** tools like **Chef** and **Ansible,** supporting **ansible** Environment with 200+ servers and involved in developing **ansible playbooks**. Developed **Chef Cookbooks** to manage systems configuration.
* Experience in Developing **Chef Cookbooks**, recipes, data bags on chef-server using knife plugin and executing it on the agent to automate the deployments in application servers like **Tomcat/JBoss/WebLogic** by using CI/CD pipeline Jenkins.
* Expertise in detecting network outages and protocol failures by using **Nagios** monitoring system and experienced in configuring other monitoring tools like **Splunk** and **ELK** stack (Elastic Search, Logstash, Kibana) **AppDynamics.**

| * **EDUCATION:** |
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* **Master’s Degree Wilmington University (2017)**

| **TECHNICAL SKILLS:** |
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| **Operating Systems** | RHEL/CentOS 5.x/6.x/7.x, Ubuntu/Debian/Fedora, Sun Solaris 7/8/9/10, Windows Server 2003/2008/2016 |
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| **Build/Automation Tools** | Ansible, Chef, Puppet, Jenkins, Hudson, Bamboo, Maven, Ant, Gradle |
| **Scripting Languages** | Shell, Bash, Perl, Python, Ruby, YAML, Groovy, PowerShell |
| **Databases** | Oracle, SQL, Cassandra DB, Redis, Postgres |
| **Web/App Server** | Apache, JBoss, Tomcat, WebSphere Application Server |
| **Bug Tracking Tools** | Remedy, JIRA, Nagios, Splunk |
| **Version Control Tools** | GIT, Subversion (SVN) |
| **Web Technologies/Programming Languages** | HTML, XML, CSS, Servlets, JDBC, C, C++, Ruby |
| **Software Methodologies** | SDLC, Waterfall, Agile, XP, Scrum |
| **Virtualization Technologies** | vSphere ESXi 5.5, VM Ware ESX 3.x, VM Ware VSphere 4.x, Virtual Center, VI Client, Citrix-Xen, Docker, Kubernetes, Kustomize |

| **PROFESSIONAL EXPERIENCE:** |
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| **Client: QVC Jul 2022 - Current**  **DevOps Engineer CICD** | |

**Responsibilities:**

* Indulged in Supporting and Development of **CI/CD Automation** to multiple applications on **Openshift**
* Created **Standard Operating Procedures** for developers to troubleshoot common **Consul Pod failures** and **Consul PVC failure**s
* Integrated multiple tools like **Checkmarx, Sonar with CICD** and published reports to respective prod servers
* Responsible in maintaining and supporting legacy Jenkins Jobs
* Worked on leveraging **JCasC** with AEM Jenkins
* Involved in troubleshooting the blockers and issues in the CICD and provided persistent solutions for build consistency on jenkins slaves
* Created **GitLab** standard templates for **Dev, QA, UAT and PROD** deployments on both openshift and **AWS ECS**
* Creation of **gitlab-ci.yml** file for kicking build process in stages that run in a docker container
* Implemented **AWS X Ray** for cloud applications
* Responsible for driving **DEV, UAT and PROD** deployments for any new code changes specific to application functionality and dependant libraries
* Implemented Scale-up and Scale-down strategies for **DR (disaster recovery) deployments**
* Worked on onboarding secrets for applications to **cyberark** for removal of any hardcoded passwords specific to the application
* Participated on regular on-call support for both our on-prem and cloud applications
* Create and maintain highly scalable and fault tolerant multi-tier **AWS** environment spanning across multiple availability zones using **Terraform** and **Cloud formation**
* Built **Terraform** scripts and handled workspace runs for Dev Staging Prod and DR environments
* Built base images and worked with **Aqua Scan** to reduce critical vulnerabilities with images
* Shared new ideas and deployment strategies on regular weekly staff meetings to improve existing deployment workflows
* Worked on tweaking the work-flow rules in gitlab for branching and merging strategies
* Worked on **hotfix branches** to develop quick fixes for application failures

| **Client: Apple Feb 2022- Jul 2022**  **DevOps / SRE** |
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**Responsibilities:**

* Created pipelines from deploying code from **GitHub** **to Kubernetes K8s** cluster in the form of Docker containers using **Spinnaker** platform
* Build, maintain and configured spinnaker deployments for development, staging and review environments
* Responsible for building **kustomize** for existing application manifests and deploying it through spinnaker
* Used Rio to deploy Kubernetes workloads
* Created clusters using Kubernetes and worked on creating many **pods, replication controllers, replica sets, services**, deployments, labels, health checks and **ingress** by writing **yaml files**
* Used Spinnaker for continuous delivery which bakes the image and performs prod deployment
* Written scripts to merge PRs automatically if the AD group exists
* Worked on the directory structure for kustomize where **base** could be reused by multiple kustomization **overlay**s and managed **secrets** using kustomize
* Ran kustomize builds to pickup variables that are in a file and then map them to the **configmap** so the vars can be picked up and passed on to the **common Annotations**
* Developed an infrastructure as a code using **Terragrunt** with **Terraform** while applying a fully modularized approach. Built networking infrastructure, **EKS (Kubernetes)** clusters, and relational databases in AWS as a code.
* Worked and helped team with failing to find the unique target for the patch on kustomize
* Troubleshoot and debug the failed deployment manifests and support ad-platforms
* Actively participate in scrum meetings and on-call rotation

| **Client: PayPal Credit, Timonium,MD Oct 2019 – Jan2022**  **DevOps / SRE** |
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* Implement **PaaS, IaaS, SaaS** style delivery models inside the Enterprise (Data center) and in Public Clouds using like AWS and Google Cloud
* Provisioning environments for Engg and QA as per the requirements and chasing timelines
* Create customized images on **GCP** and **AWS** by using create image functionality and **Cloud Build**
* Create **PowerShell** scripts to develop Admin solutions and improve processes
* Perform Installation of to monitor JBOSS instances, Operating system parameters running on Windows Server 2016
* Assist in the planning, design, testing, **JBOSS Operations Network** troubleshooting, and deployment of physical and virtual server environments and workstations
* Work with Change & Problem Management Tools
* Designed **Chef cookbook**s to manage configurations and automate the installation process using the OpsWorks framework.
* Installing, configuring, tuning, maintaining, and monitoring **Windows Server 2008/2012/2016 Enterprise server**
* Implement engineered solutions to improve efficiency and stability of the Windows Platform
* **Automate** systems, processes, and continuously reviewing to improve stability and speed
* Verifying server configurations are secure using automated tools and troubleshooting of windows o/s
* Set up a **GCP Firewall rules** in order to allow or deny traffic to and from the VM's instances based on specified configuration to drastically improve user experience and latency.
* Utilize **AWS CLI** to automate and create AMIs for mission-critical servers and worked with network engineers for Private **VPC** configuration on AWS
* Use **GIT** as a version control system to store current and previous versions of source code.
* Work with **Artifactory** uploads on new releases using **Maven**
* Perform **ISO Image** import/ export to Google bucket and AWS S3 using import tools from oracle virtual box and VMware
* Created several **AWS Lambda (Python 3.6, PowerShell)**  functions for smooth software installations on **BIB (bank in box)** and seamless image delivery for third party client Temenos
* Created **Terraform** templates to refresh our windows VMs with new image releases on GCP
* Performed **OS patching** on **Linux and Solaris** servers for mission critical DB hosts
* Support GPL product for **Temenos**
* Monitoring and diagnosis of systems for optimal performance
* Generating well defined and documented standard processes for the enterprise
* Identifying, gathering, analyzing and automating responses to key performance metrics, logs, and alerts
* Actively participate in Credit Technical Operations on-call activities

| **Client: HomeDepot, Atlanta, GA Feb 2019 – Sep 2019**  **DBA/SRE (Site Reliability Engineer)** |
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**Responsibilities:**

* Responsible for the build out, day-to-day managing and supporting **Cassandra** clusters.
* Configure backup, alerts, repairs and monitoring of Cassandra clusters using **OpsCenter**
* Troubleshoot the performance issues.
* Troubleshoot read/write latency and timeout issues using **nodetoolcfstats, tpstats, and cfhistogram**.
* Involved in migrating data from DB2 to Cassandra.
* Created the upgrade plans for DSE upgrades.
* Installed **Datastax Cassandra 5.x** in Production, Testing environments as per best practices.
* Installed Datastax OpsCenter for monitoring purposes.
* Administered, monitored and maintained multi data-center Cassandra cluster using OpsCenter and GCP in production.
* Involved closely with developers for choosing right compaction strategies and consistency levels.
* Involved in Cassandra Cluster environment administration that includes commissioning and **decommissioning** nodes, cluster capacity planning, performance tuning, cluster Monitoring and Troubleshooting.
* Performed daily administrative tasks of Cluster health check, balancing, and name node metadata backup.
* Performed **back up**, added libraries and jars successfully migrate from the existing infrastructure to latest releases.
* Working with feature teams to ensure the reliability, performance, monitoring, and scalability of micro services API with Java, **Docker,** and **Kubernetes**
* Configuring GCP Compute engines **for PostgreSQL Data warehouse**, cross region **load balancing**, partitioning in compute engines of Placement group, alert, snapshot, mirroring etc.
* GCP **Autoscaling** with an Instance group in VM and peering data into another project.
* Experience in managing IAM policies with active directory integration to manage security in GCP
* Setup Google Stack driver and customized for Monitoring, Service management, applications and infrastructure for GCP resources.
* Used **Kubernetes** as an open-source platform for automating deployment, scaling and operations of applications containers across clusters of hosts, providing container centric infrastructure

| **Client: Honey Well, Morris Plains, NJ Oct 2018 – Jan 2019**  **DevOps/ Cloud Engineer** |
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**Responsibilities:**

* Designing and deploying a **multi-tier application** utilizing almost all the main services of the **AWS** stack focused on **high** - **availability**, **fault tolerance** environment and, launched **EC2instances** across different **Subnets** and delegated access to these resources using **IAM** roles, Policies and assigned permissions to users and groups.
* Configured and maintained **Jenkins** to implement the **Continuous Integration** process and integrated the tool with **Maven** to schedule the builds. Implemented **Docker -maven-plugin** and **maven** pom to build **Dockerimages** for all **microservices** and later used **Dockerfile** to build the Docker images from the java jar files.
* Developed Cloud formation templates to spin up **EMR clusters**, configured **EMRFS** as the file system and S3 as the data lake, configured **AWS EMR** to consume data from **DynamoDB, Redshift, RDS** and streamed data from **S3** for Multiple EMR clusters and configured AWS **EMR** clusters with **Spark** 2.30 and Hive to process batch jobs, used **Hive** queries to validate the test data output.
* Configured IAM roles and policies for the access to the **EMR** clusters, enabled cloud trail auditing, configured **Splunk** HTTP collectors through Lambda functions to visualize cluster resource utilization.
* Good experience in Infrastructure as code using **Terraform** and **Packer**.
* Developed automated pipeline using **Jenkins** to build the source code consisting of the **Spark** and Hive APIs and automated the launch of the Spark application master on **EMR** cluster.
* Deploying out **EC2** instance based off the **Hadoop** big data framework using AWS service EMR (Elastic Map Reduce), integrating **Hadoop** with **AWS EMR** to optimize the performance directly by doing read and write operations in parallel to Amazon **S3**.
* Importing and Exporting data into **HDFS** and **Hive** and analyzed using **Hadoop** Streaming. The Streamed data is handled by **Spark**. Used **Hivequires** for **visualizing** the data that is processed.
* Created **AWSVPC** to have a **public-facing subnet** for web servers with **internetaccess**, and backend databases & application servers in a **private-facing subnet with no Internet access**. Collaborate in the automation of AWS infrastructure via **terraform** and **Jenkins** - software and services configuration via **chef cookbooks**.
* Building a **CI/CD** pipeline and automate the deployment with **Jenkins, Maven, Docker, Kubernetes** and **Ansible** and integrated with **SonarQube** to test the code coverage, code quality, Duplicates and **Sonar** Metrics after static and Dynamic analysis.
* Deployed K**ubernetes** cluster on AWS using **Kops** with Multi-Master setup to increase the availability, deployed Consul clusters for service discovery, weaver to perform the subnetting between the **PODS**.
* Configured **Chef** plugin on **Jenkins** to do the automated deployment of the .war, .jar files from the **Nexus** Repository on to **Dev, Test, QA and Production** environments.
* Automate infrastructure in **AWS** using Amazon web services (AWS). Using **Chef** to completely provision and manage **AWS EC2 instances**, **volumes, VPC, Route 53, and S3**. Creating **snapshots** and **Amazon machine images (AMIs)** of the instances for backup and creating clone instances.
* Worked on installing and managing different automation tools **like Jenkins, Maven, Ant, Gradle**, and monitoring tools like **Nagios, Splunk, ELK, AppDynamics.**
* Worked on deployment automation of all the **microservices** to pull the image from the private D**ocker registry** and deploy to K**ubernetes** cluster using the **Spinnaker**.  Integrated **Maven** with **Jenkins** for the builds as the Continuous Integration process.
* Integration of Automated Build with Deployment Pipeline. Currently installed **ChefServer** and **clients** to pick up the Build from **Jenkins** and deploy into target environments (**SIT, QA, and Production**).
* Maintained **continuous integration** environment for the applications using **SVN, Jenkins, Gradle Script**, configuration management tool **Ansible** for full automation. Integrating **Jenkins** with version controllers like **GitHub** to build Automation tool

| **Client: AspireHR, Dallas, TX Mar 2018 – Sep 2018**  **AWS and GCP cloud Engineer** |
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**Responsibilities:**

* Responsible for moving entire on premise data center to public hybrid cloud i.e AWS and Google Cloud
* Worked along-side DevOps engineers for continuous automated build and release management, automating delivery & deployment to dev, staging and production environment.
* Extensive use of Terraform and Packer for creating google compute instances
* Created base images using **Packer**
* Automated project creation, Network Firewall and Compute instance creation using **Terraform**
* Used **Terraform** and **Terragrunt** for coordinating tfstate
* Automated all the infrastructure workflows using **Terraform** and **Jenkins**
* Architect the data center in google cloud using google SAAS products
* Experience in setting up shared **VPC and firewall rules** in compliance with security
* Experience in setting up firewall rules and making Google network look as longarm extension for Corporate networks
* Experience in managing **IAM policies** with active directory integration to manage security in GCP and AWS.
* Experience in setting up **VPC peering** to connect different VPC network
* Experience in creating shared VPC with different tags in a single GCP project and using the same in all the projects.
* Automation & maintenance of **CI/CD pipeline** using **GIT, Jenkins & Maven** to facilitate the agile development methodology enabling developers to continuously deploy code to dev & staging environment hosted on **AWS** or on-premise servers.
* Create custom sized **VPC, subnets, NAT** to ensure successful deployment of Web applications and database templates. Create and manage **S3** buckets; Enable logging in **S3 bucket** to track the request who is accessing the data and enable **versioning** in S3 bucket and restore the deleted file.
* Wrote **Chef Cookbooks** to ensure the desired state of the all services existing on **Kubernetes** and configured **Manager Nodes** and **Worker Nodes** to get all services to the docker swarm.
* Used **Ansible** as an **automation**&**configurationmanagement** tool, replicating the configuration of **prod** servers to our dev & staging environment for environment consistency. Administration & maintenance of the **Continuous Integration** server (**Jenkins**), **Nexus** Artifactory Server and **Ansible Master Server**.
* Maintained **Ansible roles** and **playbooks** that automate the deployment of configuration and software for **OpenStack** Control Plane. Configured multiple servers depending on application need using continuous integration tools like **Jenkins**.
* Introduced **Docker containers** to help with ease of **administration**, isolation and reduction in resource footprint that helped to reduce the overall server footprint from hundreds of servers to a handful and decrease inefficiencies in the use of hardware resources by consolidating application servers.
* Implement **Auto Scaling** for scaling out to ensure **high availability** and **scalability** of customer websites and applications. Utilize **Cloud Watch** to monitor resources such as **EC2, CPU memory, Amazon RDS DB services, Dynamo tables, EBS volumes**.
* Configured and Integrated **Docker container** orchestration framework using **Kubernetes** by creating **pods, Config Maps, deployments** and used **Python Scripts** to schedule, deploy and manage container replicas onto a node cluster using **Kubernetes**.
* Building/Maintaining **Docker container** clusters managed by **Kubernetes**, **Linux**, **Bash**, **GIT**, **Docker**, on **AWS**. Utilized **Kubernetes** and **Docker** for the runtime environment of the CI/CD system to build, test deploy workflows, issue types, Change Management, Work Management. Worked on Splitting **JIRA** server’s configuration.

| **Client: CHATS – Denver, CO                                                   Oct 2017 – Feb 2018**  **DevOps/Cloud Engineer** |
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**Responsibilities:**

* Migrating source code from **GIT HUB to Enterprise GitHub**, Administering the source code control and automation of builds.
* Created monitoring around enterprise GitHub and created a GitHub cluster which is highly available
* Managing Users and Groups in **GitHub enterprise** and involved in troubleshooting client spec issues and user issues.
* Responsible for all incoming Ticketing related to workflow using **JIRA/Remedy** applications.
* Modified build scripts to build the JAR files, WAR files and EAR files from **VOB’s.**
* Managing and Migration of **Maven** **Nexus** Repositories to **Jfrog Artifactory**.
* Expertise in **Jenkins** Continuous Integration Server Installation, Configuration, Design and Administration, and integrating these tools with other systems.
* Build and maintain tools needed during release push, Responsible for Support and improve tools for continuous build, automated testing, and release management.
* Implementing and Facilitate adoption of the DevOps Tools, Responsible for the Build and Deployment of artifacts into **DEV, QA** and **UAT** environments in an Agile continuous integration process and automated the whole process combining tools like **Cobertura** and **SonarQube**.
* the scripts and resolving the issues in the query or the script to enhance efficiency and Monitoring the source network performance specifically on **Nagios** alerts.
* Implementation of a **salt-based** configuration management system for Linux machines (physical and virtual).
* Involved in Setting up and maintaining automated build & deploy systems using **Ansible**

| **Client: Infosys, Hyderabad, India                           Aug 2013 – Sept2014**  **Build and Release Engineer/System Engineer** |
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**Responsibilities:**

* Deploying the code through application servers like **WebSphere/WebLogic/Apache Tomca**t and **Puppet** for the deployment of servers with custom scripts.
* Installed, configured, created multiple instances of standalone servers on **JBoss EAP 6.2.3** and **Migrated Boss** AS 4.2.1 to JBoss EAP 6.2.3 on Red Hat Enterprise Linux 6.0.
* Integrated different source code management tools like SVN/Git repositories with **Jenkins** to **deploy** the code and created various **Jenkins** jobs in different regions to propagate code through QA, prod and production environments.
* Automating day to day tasks and different build/release process used for different applications using automated frameworks like **Jenkins**. Implemented **Puppet** to manage all existing servers and automate the build/configuration of new servers using **Puppet manifests**.
* Creating **Puppet** **manifests** and modules to automate system operations and deployed puppet dashboard, and puppet DB for configuration management to manage Web applications, Environments configuration Files, Users, Mount points, and Packages.
* Administering and Maintenance of **Puppet Master, Puppet Nodes,** and their **SSL certificates**. Deploying, configuring, install shield by writing **Puppet** manifests and managing collected for metric monitoring.
* Performing various operations like **tagging, branching, merging, stashing** and user access control using version control tools like **Git** and creating the complete pipeline for CI/CD model using Jenkins and configuring required plugins for **Git, Maven, SonarQube, Nexus** for different environments **like Dev, QA,** and **Prod.**
* Integrated Jenkins plugins for **GIT** Repository, Setup **SCMPolling** for Immediate **Build** with **Maven** Repository and Deployed Apps using custom **YAML** modules through **Puppet** as a **CI/CD** Process.
* Maintained two **Jenkins** servers to deploy into **production and non-production**. Utilized **Tomcat** and **Apache** servers for cloud server management.
* Deployed the applications on multiple **WebLogic/WebSphere** Server instances and maintained Load balancing, high availability and, Failover for the servers.
* Created and configured new **JIRA** projects and worked with departments to maintain existing JIRA projects. Manually migrated **JIRA** from 4.1 to 5.8 standalone **JIRA** on Linux server and created custom workflows, screens and Custom fields for **JIRA**.
* Installed and Configured the **Nexus repository** manager for sharing the **artifacts** within the company. Maintained and deployed the **artifacts**, used **UDeploy** release build and produce products for testing and use in production
* Developed and wrote **Shell scripts**, **Bash scripts**, **Ruby**, **Python** and **PowerShell** for setting up baselines, branching, merging, and automation processes across the environments using SCM tools like **GIT**, Subversion (SVN), Stash and TFS on Linux platforms.
* Managing **VMware** **ESXi**, host within VI3, **vSphere 4**, **vSphere 5** and **vSphere 6.5** environments. ESX management **vSphere** design and configuration, HA, DPM and DRS cluster configurations, Fiber Channel SAN storage technologies.
* Automate most of the installation tasks by writing **PYTHON/BASH/SHELL** scripts in all environments and to check the service statuses.

| **Client: Incessant Technologies – Hyderabad, India Aug 2011– Jul 2013**  **Linux Administrator** |
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**Responsibilities:**

* Installation, configuration, and maintenance of web servers, application servers, and database servers such as **Samba, Apache Tomcat, Web Sphere and JBoss** servers in AIX and Linux environment.
* Monitoring day-to-day activities like **user management, performance monitoring and tuning**, alert log monitoring and backup monitoring. Planning and implementing system **Backup** and **Recovery** procedures using **Ufsdump**, **tar,** and **cpio**. Created **UNIX bash scripts** to automatically provision profile permissions, directories, and chroot settings per profile or user role.
* Monitored system performance like **CPU Utilization, Disk Space**, Process activity by using monitoring tools like **TOP, SAR, IOSTAT, VMSTAT.** Efficiently managed **RAID** levels and file system through LVM. Support remote users using **Cisco VPN** to access the corporate network.
* Set up and configure small private and corporate network operating systems and infrastructure including servers, routing, switching, **DHCP**, and **DNS**. Maintain **alerting** system regarding network **concerns** and **outages**.
* Installation of **Linux Distros** using **KICKSTART** / PXE Boot to Provision REDHAT / Centos Images with preconfigured properties in **kickstart**.**conf**. Configured Red Hat Kickstart for installing multiple production servers.
* Used **SELinux** to enforce System Security, manage system hardening on Linux systems environments. Administering and configuring No SQL Databases like **Cassandra, Mongo DB and RDBMS like MySQL, DB2**, etc. Worked on configuring SSL certificates in Apache, Apache Tomcat, thread dumps.
* Regular **disk management** like adding and replacing hard drives in existing servers and workstations. Creating **Logical Volumes** from physical volumes and increasing and reducing the volume space according to the requirement.
* **Network configuration** for interfaces, switch ports, Ethernet cards, hostnames, netmask and routes details, **DNS, NFS, LDAP, NTP, and SMTP** etc**.**
* Maintenance of Linux Firewall Systems such as **IP Tables**, **Firewall and m**anaging the backup process of various Servers and Storages (SAN) using **Cronjobs.**
* Developed **Cron jobs** and **Shell Scripts** (Perl, Python) for automating administration tasks like file system management, process management, Server reboots etc.
* Provide support to the development team, setting up and configuring **Apache**-**PHP**, **Tomcat**, **MySQL**, Send-mail, and a wide range of open source solutions.
* **Monitoring** the **ticketqueue** all the time, working on the tickets and resolving them within the time frame. Repaired bad spots on the disk using and analyze. Used format and **fdisk**/**parted** for disk configuration and disk crash recovery.
* Installing new servers into racks and configuring Network cables, storage cables (SFP) and ISCSI cables. SAN-based (EMC Clariion) storage system backup architectural benefits.