**Deepak Singarapu**

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**Summary**

* **9 Years** of Experience in various **AWS** and **GCP** services. Architecture scalable and cost-efficient multi- **cloud** backend using both **AWS** and **GCP**. Extensively worked on DevOps essential tools, like **Jenkins**, Bamboo, **AWS** Code Pipeline for **Continuous**
* Experience in **AWS** platform and its dimensions of scalability including **EC2**, **Lambda, S3, s3, VPC, ELB, AMI, SNS, SES, SQS, RDS,** **IAM, Route 53, Elastic Container Service** (**Docker** **Containers**), **Elastic Beanstalk**, Auto scaling, **Cloud** **Formation**, **CloudFront, CloudWatch, Redshift, Direct Connect, API** Gateway, and other services of the **AWS**.
* Experienced with **deployment** automation of all the micro-services to pull the image from the private **Docker** registry and deploy to **Docker** Swarm **cluster** using **Ansible**.
* Transformed traditional environment to virtualized environments with **AWS**-**EC2**, **Docker**, Vagrant and **VMware**.
* Experience in **AWS** **Cloud** platform and its features which includes **EC2**, VPC, EBS, AMI, SNS, RDS, **Cloud** **Watch**, Auto scaling, **Cloud** **Front, IAM, S3.** **Integration** and **Continuous** **Deployment** (**CI/CD**) in **AWS**, **DevOps** for **Continuous**
* Experience in **Cloud** Administrator on Microsoft **Azure**, involved in configuring virtual machines, storage accounts, resource groups, Function applications, application insights, Service Bus, **VM** scale set with custom script, App service **deployment** and **Azure** **SQL** server. **Integration** and **Continuous** **Deployment** (**CI/CD**), and Terra form, **Ansible**, **Puppet** for Configuration
* Experience in Converting existing **AWS** Infrastructure to Server less architecture (**AWS** **Lambda, Kinesis**), deploying via **Terraform** and **AWS** **Cloud** Formation templates.
* Built S3 buckets & managed policies for S3 buckets and used **S3 bucket & Glacier** for storage and backup on **AWS**.
* Supported, configured, troubleshoot, and maintained multiple server environments like **Windows** and **Linux** (**Ubuntu, CentOS,** **RHEL** (**Red** **Hat** Enterprise **Linux**)).
* Management, and **Docker**, **Kubernetes**, **AWS** **Elastic Container Services (ECS),** **Kubernetes** **Services (AKS),** Helm for Containers and Container Orchestration, and **Splunk**, Prometheus, **Nagios**, **Cloud**
* **Watch** for monitoring the Environment, and New **Relic, Grafana, Elastic Search** for Analytics and Visualization, and **Jira** for Collaboration and bug tracking and reporting, and **Maven**, **Ant** for Build Management, and **Git**, **SVN** for Version Controlling, and most of the **Cloud** Resources available in **AWS** **clouds**.
* Experience in working on **Ansible** Playbooks, Inventory files, Vault feature to configure the **servers**, deploy **software**, encryption of data file and orchestrate **continuous** deployments or zero downtime rolling updates. Worked on **Ansible** Tower which provides an easy-to-use dashboard, and role-based access control.
* Used Groovy scripts for **CI/CD** pipeline builds and actively involved in the entire pipeline setups using **Jenkins**, **Nexus, GitHub,** **Terraform**, **AWS**, XL Deploy and XL Release.
* Worked with Build and Release automation framework designing, **Continuous** **Integration** and **Continuous** Delivery, Build and Release Planning, Procedures, scripting and automation.
* Hands-on experience in bootstrapping the nodes using knife and automated by testing **Chef** Recipes, Cookbooks with test-kitchen and **chef** spec. Experience on **AWS** **Directory Service**, **AWS** Domain Services and **AWS** **SNS** (Simply Notification Service)
* Experience in Build & Release, ALM, TFS, VSTS Administration and Configuration management. Proficient in integrating TFS with SharePoint, SSRS and Project server. Used **Terraform** to create **AWS** components like **EC2**, **IAM, VPC, ELB**, security groups.
* Experience writing **Ansible** playbooks to deploy automated tasks to multiple **servers** using **Python**, Managing Configurations of **AWS** Nodes and Test Playbooks on **AWS** instances using **Python** and written **Ansible** Scripts to assist Dev **servers**.
* Hands on experience in writing **Terraform** API modules to manage infrastructure, for automatic creation of RDS instances, VPCs, Auto scaling groups, Load balancers**, SQS, S3 buckets.**
* Experience in designing **AWS** **cloud** models for Infrastructure-as-a-Service **(IAAS),** Platform-as-a- Service **(PAAS**) and **Software**-as-a-Service **(SAAS).** Implementing Data warehouse solutions in **AWS** Redshift worked on various projects to migrate data from on **database** to **AWS** **Redshift, RDS** and **S3**. Involved in **Chef** and **Puppet** for **Deployment** on Multiple platforms.
* Written **Chef** **Cookbooks** for various DB configurations to modularize and optimize product configuration.
* Implemented **Chef** Cookbooks for OS component configuration to keep **AWS** server's template minimal.
* Experience in Clusters using **Kubernetes** and worked on creating many pods, replication controllers, services, deployments, labels, health checks. Proficient knowledge with Mesos providing the fine- grained resource allocations for pods across nodes in a **cluster**. Experience in creating ARM templates for **Azure** platform and in migrating on premise to **Azure**.
* Solid understanding of **Unix**/**Linux** operating systems, networking, architecture, and core web technologies (such as DNS, Routing, **TCP/IP, VPN, and Load Balancing**)
* Hands-on in using OpenShift for container orchestration with **Kubernetes**, container storage, automation, to enhance container platform multi-tenancy. Experience with OpenShift, **Kubernetes** architecture and design, troubleshooting issues and multi-regional **deployment** models and patterns for large-scale applications.
* Experience in **Jenkins** by installing, configuring and maintaining the purpose of **Continuous** **Integration** (CI) and End-to-End automation for all build and deployments implementing **CI/CD** for **database** using **Jenkins**.
* Experience in using **Jenkins** and pipelines to drive all Microservices builds out to the **Docker** registry and then deployed to **Kubernetes**, created Pods and managed using **Kubernetes**. Managed a PaaS for deployments using **Docker**, **Kubernetes**
* Experience in orchestration and Migration of **CI/CD** processes using **Cloud** Formation, **Terraform** Templates & Containerization of Infrastructure using **Docker**, which was set up in Vagrant, **AWS** and VPC's.
* Experience in Monitoring server performance with tools like **Nagios**, **Splunk**, Dynatrace, **Datadog**, New Relic and resolved network related issues with manual commands and built **Splunk** **Cluster** environment with High Availability resources.
* Experienced **Cloud** and DevOps engineer in Automating, Configuring and deploying instances on **AWS**, **AZURE** **Cloud** environments and Data centers. Proficient in **Ruby, Perl, Power Shell, JSON, YAML, Groovy, Bash/Shell**, **Python**. Developed **python**, and shell scripts for automation of the build and release process.
* Experience in working with **SQL** **database** like MySQL, **Oracle** **10i/9i/8i,** **SQL** Server and **NoSQL databases like MongoDB,** **DynamoDB and Cassandra.** Worked in container-based technologies like **Docker**, **Kubernetes** and OpenShift.
* Used Groovy scripts for **CI/CD** pipeline builds and actively involved in the entire pipeline setups using **Jenkins**, Nexus, GitHub, **Terraform**, **AWS**, XL Deploy and XL Release. Experience in using **JIRA** and **confluence**.
* Experience in using build tools like **MAVEN** and **ANT** for the building of deployable artifacts such as war & ear from source code.
* Automated **AWS** resources like **EC2** instances, Security groups, **ELB, RDS, and IAM** through **AWS** **cloud** Formation templates and used **Ansible** Tower to manage and configure nodes.
* Involved in writing **Java API for Amazon Lambda** to manage some of the **AWS** services and deployed **AWS** **Lambda** code fromS3 buckets also created a Lambda **Deployment** function and configured it to receive events from **S3 bucket.**
* Creating **Python** based Microservices and refactoring/enhancing exiting services. Wrote **python** scripts to parse **XML and JSON** reports and load the information in **database**.
* Experience on **Ansible** and **Ansible** Tower to automate repetitive tasks, to deploy critical applications quickly, and proactively manage the changes and wrote many playbooks to manage Web applications.
* Experience in installing and configuring the **Ansible** management node to deploy the configuration to the end user nodes.

**Education**

* **Bachelors in Electronic & Communication Engineering, JNTU, Hyderabad – 2015**
* **Master’s - Wilmington University, Delaware - 2018**

**Skills**

**Operating System**  : **Linux** (RedHat, CENTOS), **UNIX**, **Solaris**, Ubuntu, **Windows** NT, **Windows**, MacOS.

**Cloud Platforms** : **AWS** (**EC2**, S3, Lambda, CloudWatch, RDS, SNS, Route53) **GCP**.

**Web Technologies** : HTML, CSS, XML, AJAX.

**Automation/Configuration Tools** : **Jenkins**, **Chef**, **Puppet**, **Ansible**, Kickstart, Jumpstart.

**Virtualization Technologies** : **Windows** Hyper-V, **VMware** ESXi, Virtual Box, vCenter, vSphere, Power **VM**.

**Containerization Tools**  : **Kubernetes**, **Docker**, OpenShift, Spinnaker, PaaS, Open stack.

**Application/Web Server**  : Tomcat, **Apache**, Application Server, IIS, **Oracle** WebLogic Server 11g

**CI and Build Tools**  : **ANT**, **Maven**, Hudson, Bamboo

**Testing and ticketing tools** : SonarQube, Selenium, **JIRA**, ServiceNow, Remedy, ConnectWise,

**Monitoring and Logging Tools** : **Nagios**, **Splunk**, ELK, **Datadog**, Dynatrace

**Version Control Tools** : **GIT**, GitHub, Subversion, Bit-Bucket, CVS, Clear Case

**Scripting**  : **Python**, Shell Scripting, Ruby Scripting, Power Shell, YAML Perl

**Database Systems** : **Oracle**, **SQL** Server, MySQL, **SQL** Server, NoSQL, Mongo DB, Cassandra

**Networking/Protocol**  : DNS, DHCP, Cisco Routers/Switches, NIS, NFS, WAN, SMTP, LAN, FTP/TFTP, TCP/IP

**Work Experience**

**Client: American Airlines - Dallas, Texas**

**Title: AWS/DevOps Engineer**

**(Feb 2021 - Current)**

**Responsibilities**

* Built and configured a virtual data center in the **AWS** **cloud** to support Enterprise Data Warehouse hosting including Virtual Private **Cloud** (VPC), Public and Private Subnets, Security Groups, Route Tables and **Elastic Load Balancer.**
* Collaborating with development teams to enhance **deployment** processes by implementing **Continuous** **Integration** and **Continuous** Delivery (**CI/CD**).
* Created **AWS** **Cloud** Formation templates to create custom-sized VPC, subnets, **EC2** instances, **ELB**, security groups. Worked on tagging standard for proper identification and ownership of **EC2** instances and other **AWS** Services like **Cloud** Front, **cloud** **watch**, **RDS, S3, Route53, SNS, SQS, Cloud Trail**.
* Experience working on several **Docker** components like **Docker** Engine, **Docker** Hub, **Docker** Machine, **Docker** Compose and **Docker** Registry.
* Created multiple Containers with Specific Run Times and Proxying using **NGINX** for Virtual Hosting of Multiple Containers in Single **Docker** Host.
* Proof of Concept (POC) on building/maintaining **Docker** container clusters managed by **Kubernetes**, **Linux**, Bash, **GIT**, **Docker**, on **AWS**. Configured the **Auto scaling** and **ELB** groups in **AWS** to main high scalable and secure environment.
* Utilized **Cloud** **Watch** to monitor resources such as **EC2**, Amazon **RDS DB services, Dynamo DB tables, EBS volumes**, to set alarms for automated actions, and to monitor logs for a better understanding and operation of the system.
* Managed data warehouse using Amazon RedShift to analyze all data using **SQL** & existing business intelligence tools. Converted existing **AWS** infrastructure to serverless architecture (**AWS** **Lambda, Kinesis**) deployed via **Terraform** & **AWS** **Cloud** formation.
* Integrated **AWS** **Dynamo DB** using **AWS** **lambda** to store the values the items and backup the **Dynamo DB** streams and implemented **Terraform** modules for **deployment** of applications across multiple **cloud** providers.
* Planned and configured network infrastructure within the VPC with public and private subnets and configured routing tables and internet gateways, Security Groups in **AWS**. Implemented Micro-services using Pivotal **Cloud** **Foundry (PCF)** platform build upon Spring Boot Services and created workflows on TeamCity for setting up automated pipelines for **CI/CD** with **PCF**.
* Application **Deployment** on PCF using CF push and urban code deploy. Also, PCF backup for all the environments and set-up **Jenkins** **maven** build automation with uploads to **Pivotal Cloud Foundry (PCF).**
* Worked on Google **cloud** platform (**GCP**) services like compute engine, **cloud** load balancing, **cloud** storage, **cloud** **SQL**, stack driver monitoring and **cloud** **deployment** manager.
* Setup **GCP** Firewall rules to allow or deny traffic to and from the **VM**'s instances based on specified configuration and used **GCP** **cloud** CDN (content delivery network) to deliver content from **GCP** cache locations drastically improving user experience and latency. Worked on GKE Topology Diagram including masters, slave, RBAC, helm, kubectl, ingress controllers GKE Diagram including masters, slave, **RBAC, helm**, **kubectl**, ingress controllers
* Experience in Microsoft **Azure** **Cloud** Computing development and support. Moderate and contribute to the support forums (specific to **Azure** Networking, **Azure** Virtual Machines, **Azure Active Directory,** **Azure** **Storage**).
* Experience in using **Cloud** Infrastructure management and Implementation Working experience on various **Azure** services like Compute (Web Roles, Worker Roles), **Azure** Websites, Caching, **SQL** **Azure**, NoSQL, Storage, Network services, **Azure** **Active** **Directory**, Scheduling, **Auto Scaling, and Power Shell Automation.**
* Extensive working experience with different **SDLC** **methodologies** such as **Agile** and **Waterfall** with an ability to be creative and to take self-initiatives to execute/manage multiple projects in parallel during time critical situations.
* Good working experience in **Azure** Logic apps, service Bus, Document **DB** and **SQL** **Database**.
* Deployed **Azure** IaaS Virtual Machines (**VM**’s) and **PaaS** role instances (**Cloud** **Services**) into secure VNet’s and subnets, designed VNet’s and Subscriptions to confirm to **Azure** **Network Limits.**
* Extensive experience on configuring Amazon **EC2**, **Amazon S3, Amazon Elastic** Load Balancing IAM and Security Groups in Public and Private Subnets in **VPC** and other services in the **AWS**
* Provisioned the highly available **EC2** instances using **Terraform** and **Cloud** Formation and wrote new plugins to support new functionality in **Terraform**. Managed all **cloud** and on-premises environments at once under the **Chef** **umbrella**, including **servers** running the **Windows**, **Linux**, **IBM AIX**, and **Solaris** operating systems.
* Created **Ansible** Playbooks to provision **Apache** Web **servers**, Tomcat **servers**, Nginx, **Apache** Spark and other applications. Used **Ansible** Tower to streamline the applications delivery and services to **AWS** in a cost-effective, Simple and Secure manner.
* Integrated **Ansible** with **Jenkins** to provide automation, **continuous** **integration** through **Jenkins** and Implemented **Jenkins** Workflow and Plugins for repeatable deployments of multi-tier applications, artifacts and services to **Docker**.
* Created additional **Docker** Slave Nodes for **Jenkins** using custom **Docker** Images and pulled them to **Cloud**. Worked on all major components of **Docker** like **Docker** Daemon, Hub, Images, Registry, and Swarm.
* Worked and Installation of complex packages in **Kubernetes** by using Helm Package Management and experienced **cluster** metrics monitoring with Prometheus and Grafana. Experienced in working on Scripting languages **Python**, Ruby, Shell, Bash.
* Worked on installation, configuration, and maintenance Debi an/RedHat, CentOS and Suse **Servers** at multiple Data Centers.
* Experience installing, upgrading, and configuring **RedHat Linux 4.x, 5.x, 6.x** using Kickstart **Servers** and Interactive Installation.
* Managed systems routine backup, scheduling jobs, enabling corn jobs, enabling System logging and network logging of **servers** for maintenance. Experienced working with Logical Volume Manager (LVM) in creating physical volumes, volume groups and logical volumes, extending and resizing the volume groups when needed.
* Worked in all areas of **Jenkins** setting up CI for new branches, build automation, plugin management and securing **Jenkins** and setting up master/slave configurations. Used **MAVEN** as a build tool for projects and written **Maven** POM files from scratch for multi-module projects for the development of build artifacts on the source code.
* Developed **Python**, Perl and shell/bash scripts for TC Server/Tomcat web application **servers** and automation of the build and release process and to automate certain processes for the smooth process of build tool like **Maven**.
* Executed and managed the automate **cloud** deployments using **Ansible**, **python** (Boto and Fabric) and **AWS** **Cloud** Formation Templates. Wrote PowerShell scripts for automating time-consuming specialty needs for external clients.
* Created Inventory for automation in **Ansible** and wrote Playbooks with **Python** SSH wrapper to manage configurations of **AWS** nodes and test Playbooks on **AWS** instances using **Python**. Automation and **deployment** templates for relational and non-relational databases including MySQL and Cassandra used in **AWS** RDS.
* Used **JIRA** tool to track all the defects and changes related to Build and release team. With the help of **JIRA** **Agile**, as a team tracked the unit of work (Issue, Bug, story, project task, etc.) through a predefined workflow.
* Maintained LVM, UCD file systems along with NFS and Configured Kickstart **servers** to install **Red** **Hat** **Linux** and **VMWare** ESX on multiple machines.

**Environment: AWS** (**EC2**, EBS, S3, VPC, Code Deploy, Code Commit, Elastic search, Lambda, API Gateway, Route 53 (DNS), ECS, **Cloud** Formation, RDS, Dynamo DB, SNS, SES, SQS, IAM, RedShift, Ops Works), **Maven**, **Chef**, **Ansible**, **Docker**, **Kubernetes**, Open Stack (kilo/ Juno), **Jenkins**, **GIT**, Bit-Bucket, **Python**, **Jira**.

**Client: Tavant - Santa Clara, California**

**Title: AWS/Cloud DevOps Engineer**

**(Oct 2018- Jan 2021)**

**Responsibilities:**

* Responsible for building **AWS** infrastructure **VPC, EC2, S3, IAM, EBS, Auto scaling and RDS** in **cloud** formation using **JSON** templates. Configuring **S3** versioning and lifecycle policies to and backup files and archive files in glacier.
* Working as a DevOps engineer for automating the build, configuration, **deployment** and testing of enterprise level **software** applications on premise and on **cloud** Troubleshooted issues along the **CI/CD** pipelines.
* Created **Apache** Directory Server for local network and Integrating **RHEL** instance with **Active Directory** in **AWS** VPC.
* Configure and Manage **EC2**, **Elastic Beanstalk, RDS, S3 Buckets, VPC, Security Groups, ELB, Auto scaling, Elastic Cache, Glacier, SNS, SQS, SES, CloudWatch, ECS, Cloud Trail, Cloud Formation**
* Analyzed various distributed file systems suitable for a **cloud** storage using a storage benchmark. Tested a private storage **cloud** using Open Stack SWIFT **software** and worked as well with Open Stack Multi-node installation, Configuration and Administration
* Worked with **AWS** Code Pipeline and creating **Cloud** Formation **YAML** templates to create custom VPC. Migrated production infrastructure into **AWS** utilizing Code Deploy, Code Commit, Ropeworks. Knowledge of Amazon ECS Clusters and able to manage containers in it Created and configured **AWS** **EC2** instances using preconfigured templates such as **AMI, RHEL**,
* Centos, Ubuntu as well as used corporate based **VM** images which includes complete packages to run build and test in those **EC2** Instances. Built a **deployment** pipeline for deploying tagged versions of applications to **AWS** Beanstalk using **Jenkins** CI.
* Providing the assistance for the smooth phase of Release for the Emergency and Expediate Releases by getting the Director Level Approval and coordinating with different teams
* Extensively used Elastic Load Balancing mechanism with Auto Scaling feature to scale the capacity of **EC2** Instances across multiple availability zones in a region to distribute incoming high traffic for the application.
* Created **Terraform** modules to create instances in **AWS** & automated process of creation of resources is **AWS** using **terraform**.
* Used **Docker** to containerize custom web applications and deployed on Digital Ocean with Ubuntu instances through SWARM **Cluster** and automated application **deployment** in **cloud** using **Docker** HUB, **Docker** Swarm, and Vagrant.
* Developed automated processes that run daily to check disk usage and perform cleanup of file systems on **LINUX**. Environments using shell scripting. Applied appropriate support packages/patches to maintain system integrity.
* Implementing **Docker** containers leveraging existing **Linux** Containers and AMI's in addition to creating **Docker** containers from scratch. Managing the OpenShift **cluster** that includes scaling up and down the **AWS** app nodes.
* Had very strong exposure using **Ansible** automation in replacing the different components of OpenShift like ECTD, MASTER, APP, INFRA, **Cluster**. Managed local deployments in **Kubernetes**, creating local **cluster** and deploying application containers.
* OpenShift virtualized PaaS provider - useful in automating the provisioning of commodity computing resources for cost and performance efficiency Analyzing in working with **Ansible**, wrote many playbooks to manage Web applications, Environments.
* Integrated **Jenkins** with various DevOps tools such as Nexus, SonarQube, **Ansible** and used **CI/CD** system of **Jenkins** on **Kubernetes** container environment, utilizing **Kubernetes** and **Docker** for the runtime environment for the **CI/CD** system to build and test and deploy. Used **Ansible** server to manage and configure nodes, Managed **Ansible** Playbooks with **Ansible** roles.
* Good exposure to Configuration Management policies and practices with regards to **SDLC**; along with automation of scripting using BASH/Shell scripting Worked with Site Reliability Engineer to implement Data dog system metrics, analytics.
* Written groovy scripts to use multi branch pipeline projects in **Jenkins** to configure it as per client's requirements.
* Worked on **Ansible** and **Ansible** Tower to automate repetitive tasks, to deploy critical applications quickly and proactively manage the changes. Provided end-user straining for all Tortoise SVN, **JIRA** users to effectively use the tool.
* Managed SVN repositories for branching, merging and tagging and developing Shell/Groovy Scripts for automation purpose.
* Developed build and deploy scripts using Groovy, **Python** and **UNIX** for various products to be hosted on Application **Servers**.
* Orchestrated and migrated **CI/CD** processes using **Cloud** Formation, **terraform** templates and Containerized the infrastructure using **Docker** setup in Vagrant, **AWS**, and Amazon VPCs. Container clustering with **Docker** Swan Mesos / **Kubernetes**.
* Creating **Jenkins** jobs and distributing load on **Jenkins** server by configuring **Jenkins** nodes which will enable parallel builds.
* Extensively worked on **Jenkins** **CI/CD** pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the **Jenkins** build process. Managing **Jenkins** artifacts in Nexus repository and versioning the artifacts with time stamp, Deploying artifacts into **servers** in **AWS** **cloud** with **Ansible** and **Jenkins**.
* Created **continuous** **integration** system using **Ant**, **Jenkins**, **Puppet** full automation, **Continuous** **Integration**, faster and flawless deployments. Worked with Amazon **AWS**/**EC2** and Google's **Docker** based **cluster** management environment **Kubernetes**.
* Installed and administered **GIT** source code tool and ensured the reliability of the application as well as designed the branching strategies for **GIT**. Deployed and configured **Git** repositories with branching, forks, tagging, merge requests, and notifications.
* Installed/Configured and Managed Nexus Repository Manager and all the Repositories, Created the Release process of the artifacts. Experience in writing **UNIX** shell scripts for automated installations, to extract logs using Perl, and **Python**.
* Experience on working with on-premises network, application, server monitoring tools like **Nagios**, **Splunk**, AppDynamics and on **AWS** with CloudWatch monitoring tool . Created **Ansible** with multiple modules as per component like Kafka, Zookeepers, MySQL, Logstash, HTTP collectors & Schema registry to configure **EC2** instances to create/update Kafka **cluster**.
* Worked with **Agile** tools, Atlassian **Jira**, **Scrum** and **Continuous** delivery tools Nexus, Nexus Pro, Run deck, Mesos, Marathon.
* Worked on **Jenkins**, GitHub, Artifactory and all internal build systems for the core development team on an enterprise-level **cloud** orchestration/automation tool.
* Built **Jenkins** jobs to create **AWS** infrastructure from GitHub repos containing **Terraform** code and administered/engineered **Jenkins** for managing weekly builds. Deployed and managed web services with Tomcat and **JBOSS**.

**Environment:** **Jenkins**, **Docker**, **Kubernetes**, **JIRA**, **CI/CD**, **AWS**, **Ansible**, **Git**, Bit bucket, **AWS** beanstalk, **JBOSS**, **Terraform**, Ruby, **Python**, Kafka, Selenium.

**Client: Polaris, Inc - Medina, Minnesota**

**Title: Build/Release Engineer**

**(May 2016 - Sep 2018)**

**Responsibilities:**

* Built scripts using **ANT** and **MAVEN** build tools in **Jenkins** to move from one environment to other environments. Configured **GIT** with **Jenkins** and schedule jobs using POLL SCM option.
* Created custom sized **EC2** instances, VPC, subnets, NAT, ELB and Security groups using **AWS** **Cloud** Formation templates
* Configured and maintained user accounts for development, QA, and production teams and created roles for **EC2**, RDS, S3, **Cloud** **Watch**, EBS resources to communicate with each other using IAM and performed S3 buckets creation, policies and on the IAM role base policies and customizing the JSON template.
* Used **Cloud** **Watch** for monitoring **AWS** **cloud** resources and the applications that deployed on **AWS** by creating new alarm, enable notification service.
* Configure **continuous** **integration** (CI) from source control, setting up build definition within Visual Studio Team Services (VSTS) and configure **continuous** delivery (CD) to automate the **deployment** of ASP.NET MVC applications to **Azure** web apps.
* Setup SCM Polling for Immediate Builds with **Maven** and **Maven** Repository by installing **Jenkins** Plugins for **GIT** Repository.
* Developed and tested many features for dashboard using **Python**.
* Generated reports using **JIRA** for creating projects, assigning permissions to users and groups for the project and created mail handlers and notifications schemes for **JIRA**.
* Involved in the functional usage and **deployment** of applications in WebLogic, WebSphere, IIS and **Apache** Tomcat Server.
* Manage users and groups in **Solaris** **Linux** **servers** to create, modify and delete users/groups and troubleshooting user related issues and involved in Troubleshooting **Linux** Systems identifying Hardware, **software** (both OS and Application level) and networking issues.
* Written various **Docker**-Compose files in **YAML** to run multi-containers applications. Worked on **Docker** Version Manager to switch between **Docker** Clients. Worked on **Docker**, OpenShift to manage micro services for development and point team player on OpenShift for creating new projects, services for load balancing and adding them to routes to be accessible.
* Involved in setting up **Kubernetes** (k8s) to **cluster** & orchestrate **Docker** containers for running Microservices by creating Pods. Took several Microservices into production with **Kubernetes** backed Infrastructure.
* Created several pods and services using Master and Minion architecture of **Kubernetes** and developed Microservice on boarding tools leveraging **Python** allowing for easy creation and maintenance of build jobs and **Kubernetes** deploy and services.
* Experience in working on source control tool **GIT**. Strong knowledge on source controller concepts like Branches, Merges and Tags.
* Experience in Technical and Functional side of the Team Foundation Server Components (Source Control, Work Items, TFS Builds, Reporting, SharePoint)
* Handled **continuous** **integration** with **Jenkins** by using various plugins like Global Build Stats, Multiple SCMs, Parameterized Trigger and Configuration Slicing to increase the productivity.
* Created scripts in **Python** to automate log rotation of multiple logs from web **servers**. Working with **Python** ORM Libraries including Django ORM to create Web applications.

**Environment:** RedHat **Linux**, CentOS, **AWS**, Pivotal **Cloud** Foundry (PCF), Elastic search, Logstash & Kibana (ELK), **Maven**, **Jenkins**, Cassandra. Ruby, Shell, TFS, **JIRA**, **Python**, **Oracle**, WebLogic Server 11g, **Apache** Tomcat, **Apache** Mesos, **Docker**, **Kubernetes**, Virtualization, **Apache** HTTP server, Nginx, Nexus, LDAP, GitHub.

**Client: Infirmary Software Private Limited – Hyderabad (Intern)**

**Title: Linux Administrator**

**(Aug 2014 - Oct 2015)**

**Responsibilities:**

* Hands-on experience with **VSphere**, **VMWare** Orchestrator, working with templates and ISO **Linux** configurations.
* Installed hardware, installed **Linux** OS, and configured required network on 25 Node HPC **cluster**.
* Maintaining the Network Infrastructure, including Installation, Migration, and Configuration of Network Client Workstations and managing Local and Domain-wide groups. Configuration and Administration of IP addressing and routing, connectivity, Telnet & FTP, etc. Administered Backup and Restore operations using **Veritas NetBackup 5.1.**
* Maintaining ISDN and Leased Line Networks. Setting up RRAS and VPN Connections. Addressing performance bottlenecks and ensuring maximum network uptime.
* Provisioned and build CHP (compute host platform) **RedHat** **Linux** **6.1 virtual machines,** these **servers**-based **cloud** computing. Configured **LAMP Stack** on **Unix**/**Linux** **servers**.
* Configured several **Linux** based services such as **TCP, UDP,SMTP, DHCP, BIND, LDAP, NFS, SMTP, HTTP, HTTPS, SSH, FTP, Samba** and etc., on virtual machines. Installed and monitored administering and monitoring tools such as Webmin and **Nagios**.
* Performed routine LVM tasks like replacing failed drives, adding new volume groups, extending volume groups/LVM/file system, exporting and importing volume group for hardware migration.
* Monitored and fine tuning system and network performance for server environments running **RedHat** **Linux**, **Solaris**.
* Troubleshoot various systems problems such as application related issues, network related issues,
* hardware related issues etc. **Linux** **deployment**, administration, performance tuning, monitoring and account management.
* Installed hardware, installed **Linux** OS, and configured required network on 30 Node HPC **cluster**.
* Built **Linux** Compute Nodes using automated scripts (Kickstart scripts) and NFS server.
* Monitoring the health and stability of **Linux** and **Windows** System environments.
* Administered **Linux** clusters consisting of 150 nodes running both on **Red** **Hat** and SuSE.
* Perform configuration of standard **Linux** and network protocols, such as **SMTP, DHCP, DNS, LDAP, NFS, SMTP, HTTP, SNMP** and others.

**Environment:** RedHat **Linux**, CentOS, Shell, **JIRA**, **Oracle**,