 Avinash

 **Sr. DevOps / Cloud Engineer**

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**Professional Summary:**

Sr. DevOps Engineer with an IT experience of around 8 years in various Cloud environments like **Azure**, **AWS**. Expertise in Automate the infrastructure using Continuous Integration & Continuous delivery (**CI/CD**), and **Configuration Management** tools. Experience working as a System Administrator on different **Linux environment** flavor’s like **RedHat**, **Centos**, **Ubuntu**.

* Experienced in AWS Cloud Computing services such as **EC2, S3, Lambda, API, DynamoDB, EBS, VPC, ELB, Route53, Cloud Watch, Security Groups, Glue, Quick Sight, Cloud Trail, IAM, Cloud Front, Snowball, EMR, RDS and Glacier also worked on DNS, SSL and Firewalls.**
* Experience working 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.
* Experience in migrating complete application infrastructure from physical datacenter to **AWS cloud** which includes **Application, Database and Data Migration.**
* Experience in automation and securing the infrastructure on **AWS** using **CloudFormation, Terraform and AWS Lambda.**
* Experience on Configuring VMs availability sets using Azure portal to provide resiliency for IaaS based solution and scale sets using **Azure Resource Manager** to manage network traffic.
* Experience on **Azure** **VPN**-site to site & point to site, **Virtual** **networks**, Azure custom security, end security and firewall. Used Azure **Express** **Route** to set up a virtual private connection to Microsoft cloud services such as a Microsoft **Azure**, Office 365, and Dynamic 365.
* Working Experience on Microsoft **Azure** **Cloud** **Services** to provide IaaS, PaaS support to the client. Created Virtual Machines through the Azure portal and **PowerShell**.
* Experience in dealing with Windows **Azure IaaS - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, Traffic Manager, VPN, Load Balancing, Application Gateways, Auto-Scaling.**
* Experience working on **Azure Fabric, Micro services & Docker Containers in Azure**. Ability to create scripts using **Azure PowerShell** during automation and built-in process.
* Experience DevOps / SRE support to Cloud Transformation to include: **Infrastructure** build-out in support of **Cloud** **Transformation** initiatives, Support and Guidance in refactoring of existing services to run in **AWS**, Support and Guidance for **migrating** existing services from **OpenStack** to AWS.
* Experience in using **Terraform** involved infrastructure as code, execution plans, resource graph and automated changes. Experience building tools for automation (Packer, **Terraform**) (building, testing, releasing, monitoring and alarming).
* Experience in writing the **playbooks** and can manage 100’s of servers by pushing the code from servers to different nodes in **Ansible.**
* Experience on developing continuous delivery product release pipelines, using tools such as **Jenkins** and enabled release and operations automation using **Ansible.**
* Integrated **Jenkins with Docker** container using Cloud bees **Docker** pipeline plugin and provisioned the **EC2 instance** using Amazon EC2 plugin.
* Experience with container-based deployments using **Docker** and working with **Docker images, Docker Hub, Docker registries and Kubernetes.**
* Experience in developing **APIs** using **Kubernetes** to manage and specify the copies of the containers to run the actual servers in the cloud. Scheduled, deployed and managed container replicas onto a node cluster using **Kubernetes.**
* Designed DevOps workflow for multiple applications by orchestrating **Test**, **Build**, **Release** and **Deploy** phases through various **CI/CD** pipelines using Git, **Jenkins**, Chef and build the deliverable artifacts using Maven as a build tool in Jenkins for Java applications and deploy them to various environments.
* Built end to end **CI/CD** Pipelines in Jenkins to retrieve code, compile applications, perform tests and push build **artifacts** to **Nexus**.
* Strong experience in branching, tagging and maintaining the version across environments using SCM tools such as **Git and Bitbucket** on Linux and Windows platforms. Also, good knowledge on **TFS** (Team Foundation Server) and **CVS.**
* Proficient on working with monitoring tools like **Splunk, Nagios and ELK (Elastic Search, Log stash, Kibana)**.  Designed an **ELK** system to monitor and search enterprise alerts.
* Good hands-on experience with various scripting tools such as **Python, Shell, Bash, PowerShell and Ruby** for automating various cron jobs and notification process. Automated Nagios alerts and email notifications using **Python script** and executed them through **Chef.**
* Experience working with Virtualization technologies like **VMware, Vagrant and Packer**. Also, strong knowledge on Network Protocols like **TCP, SMTP, DNS, HTTP, SNMP.**
* Experience working with version control systems like **Subversion**, **GIT** and used Source code management tools **GitHub**, **Bitbucket** including command line applications.
* Experience in using the open-source monitoring tools like **Zabbix, Nagios and** Good knowledge **in Splunk.**
* Expert in deploying code through web application servers like **Apache Tomcat, Apache webserver, WebLogic, JBoss, WebSphere and Nginx.**
* Expertise in LINUX/UNIX system builds, administration, Installations, Upgrades, Troubleshooting on different distributions such as **Ubuntu (16/14/13/12), Debian, CentOS (7/6/5), Red Hat (7/6/5/4), RHEL.**
* Expertise in Installation, Support, Configuration with different flavors of **LINUX RHEL**, **CentOS**, **Oracle Linux (OEL) 6.x/5.x**, **Debian**, and **Ubuntu**. Installed and configured **Red Hat LINUX Kickstart.**

**Technical Skills:**

|  |  |
| --- | --- |
| Cloud | AWS, OpenStack, Azure, PCF |
| Container Tools | Docker, Kubernetes, Docker Swarm, Mesos & Open shift |
| CI/CD Tools | Jenkins, Hudson, Bamboo |
| Build Tools | Ant, Maven, Gradle, Jenkins, Bamboo, Hudson. |
| Version Control Tools | GIT, GIT-lab, GitHub, Bitbucket, Subversion (SVN). |
| Monitoring Tools | Nagios, CloudWatch, Splunk, ELK, Service NOW, JIRA. |
| Scripting | Bash/Shell, Perl, Python, Ruby. |
| Databases | My SQL, MS Access, Oracle 9i/10g/11g, DB2, NoSQL (MongoDB, DynamoDB) |
| Configuration Management Tools | Chef, Ansible, Puppet, Terraform. |
| Web/App Servers | IBM WebSphere, Glassfish, Apache, Tomcat, JBOSS 4.x/5.x, Web Logic (8/9/10). |
| Networking | DNS, DHCP, NFS, WAN, LAN, HTTP, TCP/IP, FTP, SMTP, SSL, SSH |
| Operating Systems | Linux (Red Hat 4/5/6/7), UBUNTU, UNIX, WINDOWS NT/2000/2003/XP/VISTA/7/8/10. |
| Virtualization Tech | VMware vSphere ESXi 5.x/4.x, ESX /3.x, VMware Workstation, Oracle Virtual box |

**Professional Experience**

**Citi Bank, NY Feb 2019 - Present**

**Role: Sr. Cloud/DevOps Engineer**

**Responsibilities:**

* Part of an **agile, dynamic** team of technical experts responsible for the delivery of **cloud-based services** and solutions for the enterprise. Expertise in cloud-based experience in the build, deployment, and operation of **software-defined infrastructure and services** for business initiatives.
* Extensively worked on AWS solutions using **EC2, S3, RDS, EBS, ELB, EFS and Auto scaling groups, Optimized volumes and EC2 instances.**
* Created Python Scripts to Automate AWS services which include **Lambda, 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.
* Managed highly available and fault tolerant systems in **AWS**, through various **API**'s, console operations and **CLI**. Managed **AWS** infrastructure as code using **Terraform.**
* Created **IAM** **policies** for delegated administration within AWS and Configure **IAM** Users/Roles/Policies to grant **fine-grained access** to AWS resources to users.
* Developed **ETL** pipelines to ingest data to **AWS RDS** for **data processing**, **data analysis** using **AWS Glue** and **AWS Athena**, and data warehousing and visualization using **AWS Redshift** and **AWS QuickSight**
* **Writing Bash and Python Scripts**, to supplement automation provided by **Ansible** and **Terraform** for tasks such as encrypting EBS volumes backing AMIs and scheduling **Lambda** functions for routine AWS tasks.
* Deployed full managed web services using **Elastic Bean Stalks and SNS and CloudWatch** and configured path-based routing using **ALB** for HTTP/HTTPS traffic and **NLB** for TCP/IP traffic.
* Configured and managing **security groups** and **VPC** in Automated way. Also developed various automated provisioning pipelines using **Ansible** for various AWS resources.
* Designing and implementing fully automated server build, management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including **Jenkins Nodes/Agents, SSH, Amazon EC2 and packaging, deployment and testing.**
* **Automated CI/CD with Jenkins, build-pipeline-plugin, maven, GIT** Set up Jenkins master/slave to distribute builds on salve nodes. Integrating with Git and Jira to trigger builds using Web Hooks and Slave Machines.
* Hands on experience in provisioning, orchestration, packages, services, configuration and deployment using **Ansible Tower and Cloud Formation.**
* Used **Ansible** and **Ansible Tower** as configuration management tool, to automate repetitive tasks, deploy applications, manage changes and automate software update and verify functionality.
* **Continuous Monitoring** of AWS Environment by running daily **Tower** Jobs to detect any modifications and notify the users.
* Worked on **Ansible** to configure the servers, deploy software, and orchestrate continuous deployments for zero downtime rolling updates.
* Worked with **Ansible** playbooks for virtual and physical instance provisioning, configuration management, patching and software deployment.
* Used **Jenkins** pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes.
* Maintained build related scripts developed in shell for **Maven** builds. Created and modified build configuration files including **POM.xml**. Configured **Jenkins** to build Java Code using Meta Case Software and executed CI process on the Java code generated.
* Worked on infrastructure with **Docker containerization**. Collaborated with development support teams to setup a continuous delivery environment with the use of **Docker**.
* Developed different environments of different applications on **Google cloud** by provisioning **Kubernetes clusters** on **GCE** instances and **GKE** using **Docker**, **Ruby/Bash**, **Python.**
* **Used Kubernetes** to deploy and manage containers (pods) on **Google Container Engine (GKE).**
* Experience with the **kubernetes** objects, such as Deamon-sets, Pods, Deployment, Jobs, Cornjobs.
* Delt with **Docker Images** and Containers using **Kubernetes** by creating whole Master and Minion. Installed artifactory-Ha on top of **kubernetes** for dynamix PVC provisioning.
* Built and deployed the application code using **CLI Kubernetes** like Kubectl, Kubelet, kubeadm, Kubespray and Scheduling the jobs using Kube-scheduler. Managed **K8's** charts using Helm and created reproducible builds of the **Kubernetes** applications.
* Building/Maintaining **Docker** container clusters managed by **Kubernetes** **Linux**, **Bash**, **GIT**, **Docker**. Utilized **Kubernetes** and **docker** for the runtime environment of the **CI**/**CD** system to build, test deploy.
* Contributed to python library that deploys **k8s clusters** using helm charts, in-house tool (SSDT) for service deployments into the **k8s clusters**.
* Developed and Implemented **Kubernetes manifests**, **helm charts** for deployment of microservices into **k8s clusters**.
* Working on **Openstack** nova, setup monitoring on **Kubernetes,** New Relic for application performance and **sumo logic** for log monitoring performance.
* Implementing **Kubernetes** auth method to authenticate with HashiCorp Vault using a Kubernetes Service Account Token then integrates Vault token into a Kubernetes Pod.
* Creating **Grafana** Dashboards for monitoring the **Kubernetes** cluster using Prometheus for gauging the Availability of the API sever, scheduling rate of the Scheduler and using PromQL quires for specific metric.
* Managed code and versioning control using **Git** and supported development team on resolving branching and merging issues.
* Developed build and deployment scripts using **Maven** as build tool in Jenkins to move from one environment to other environments.
* Implemented **Jenkins** Workflow and Plugins for repeatable deployments of multi-tier applications, artifacts and services to **Docker and Red Hat.**
* Integrated **Jenkins** CI with **GIT** version control and implemented continuous build based on check-in for various cross functional applications and created **GitHub** **Web Hooks** to setup triggers for commit, push, merge and pull request events.
* Worked with administrators to ensure **Splunk** is actively and accurately running and monitoring on the current

Infrastructure implementation. Used **JIRA** for bug tracking, issue tracking and project management.

* Performed installing, configuring, supporting and troubleshooting Unix/Linux Networking services and protocols like **NIS**, **NIS+**, **OSPF**, **LDAP**, **DNS**, **NFS**, **DHCP**, **NAS**, **FTP**, **SSH** and **SAMBA**.
* Worked on maintaining the **Linux** **server**s. Also provided support to developer’s team for their issues with the application, **tuning**, **troubleshooting** software running on Servers.
* Update and enhance written processes and **documentation** with a focus on ease of understanding and completeness.

**Environment and Tools***:* *AWS EC2, S3, VPC, CloudWatch, EBS, Route 53, Lambda, Cloud Formation, IAM, Elastic Search, Log Stash, Ansible Tower, Docker, Terraform, Maven, Jenkins, GitHub, JIRA, Nagios, Splunk, RHEL, Solaris, CentOS, Shell scripting, Python Scripting, Ansible, CI/CD*.

**Hyundai AutoEver, Irvine, CA Mar 2017 - Jan 2019**

**Role: Sr. Cloud/DevOps Engineer**

**Responsibilities:**

* Designed and configured **Azure Virtual Networks** (**VNets**), **subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.**
* Involved in planning the architecture to create the **Azure Cloud environment** to host migrated **IaaS VMs and PaaS role instances** for refactored applications and databases.
* Worked on **Azure** **OMS** & Power BI for visualizing the activities. Also used **Azure** App Insights, Alerts and Log Analytics for Monitoring as part of **OMS.**
* Configured **ADFS** and **AD** for on-Premise domain and configured **Azure** **VPN** for Virtual Network Creating Azure Backup vault and protecting required **VMs** to take the VM level backups.
* Managed Identity Access management of **Azure** **Subscriptions**, **Azure** AD, Azure AD Application, Proxy, Azure AD **Connect**, Azure AD Pass through **Authentication**.
* Implemented high availability with **Azure Classic and Azure Resource Manager** deployment models. Used **Azure Container Service (AKS**) to manage the **Kubernetes** environment and orchestrate the **docker** containers as well. Designed **Azure Resource Manager** template and extensive experience in designing custom build steps using **PowerShell.**
* Created **Terraform** templates for provisioning **virtual networks, subnets, VM Scale sets, Load balancers and NAT rules** and used **Terraform** graph to visualize execution plan using the graph command. Written Templates for **Azure Infrastructure as code** using **Terraform** to build staging and production environments.
* Integrated **Azure Log Analytics** with **Azure VMs** for monitoring the **log files**, store them and track metrics and used **Terraform** as a tool, **Managed** different infrastructure resources **Cloud,** **VMWare** and **Docker** containers.
* Installed, deployed and configured **Chef Server Enterprise** and bootstrapped the nodes using Knife. Also automated the nodes by testing the **Chef Cookbooks with Test Kitchen.**
* Written **Chef** Cookbooks and recipes to Provision several pre-production environments consisting of CassandraDB installations and several proprietary middleware installations.
* Used **Ansible** and **Ansible Tower** as configuration management tool, to automate repetitive tasks, deploy applications, manage changes and automate software update and verify functionality.
* Worked on **Ansible** to configure the servers, deploy software, and orchestrate continuous deployments for zero downtime rolling updates.
* Used **Jenkins** pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes.
* Worked with Red Hat OpenShift Container Platform for **Docker** and **Kubernetes**. Used **Kubernetes** to manage containerized applications using its nodes, ConfigMaps, selector, Services and deployed application containers as Pods.
* Configured and setup **Kubernetes** Cluster environment with master and Nodes. Managed local deployments in Kubernetes using **minikube**, creating local cluster and deploying application containers.
* Involved in development of Test environment on **Docker containers** and configuring the Docker containers using **Kubernetes**.
* Used **Zabbix** as monitoring tool and used **Zabbix** plugin for **Grafana** for analysis & visualization.
* Managed code and versioning control using **Git** and supported development team on resolving branching and merging issues.
* Implemented **Jenkins** Workflow and Plugins for repeatable deployments of multi-tier applications, artifacts and services to **Docker and Red Hat.**
* Responsible for installation & configuration of **Jenkins** to support various **Java builds** and **Jenkins** plugins to automate continuous builds and publishing **Docker images** to the **Nexus** repository.
* Integrated **Jenkins** CI with **GIT** version control and implemented continuous build based on check-in for various cross functional applications and created **GitHub** **Web Hooks** to setup triggers for commit, push, merge and pull request events.
* Used **MAVEN** as a build tool on **Java** projects and written maven **POM** files from scratch for multi-modules projects for the development of build artifacts on the source code.
* Configuring and managing **ELK stack**, setup the elastic search **ELK** **Stack** to collect search and analyze log files from across the servers and integration of Application with monitoring tool **New** **Relic** for complete insight and **proactive** **monitoring**.
* Worked with administrators to ensure **Splunk** is actively and accurately running and monitoring on the current Infrastructure implementation. Used **JIRA** for bug tracking, issue tracking and project management.
* Used **Python API** for uploading all the agent logs into **Azure blob storage**. Used **Azure BLOB** to access required files and Azure Storage queues to communicate between related processes.
* Designed and integrated **Pivotal cloud foundry (PCF) on Microsoft Azure**. Deployed **PCF** using CF push and urban code deploy. Ensured successful architecture and deployment of enterprise grade **PaaS** solutions using Pivotal Cloud Foundry (PCF) and also worked on the implementation of **micro services in PCF.**
* Experience in WebLogic 9.x/10.x to implement zero downtime deployment using **python** and **bash/shell script** and used Jenkins to automate.
* Coordinate with other teams to support network hardware such as firewalls and switches and storage hardware such as **SAN** and **NAS** systems.
* Evaluated **Eggplant** – test automation tool in preparation for building a suite of automated tests.

**Environment and Tools***:* *Microsoft**Azure, PCF, CHEF, Ansible, Docker, Kubernetes, Jenkins, Maven, Git, Elastic Search, Log Stash, Kibana, Splunk, Nagios, Nexus, JIRA, Bamboo, Cassandra, Mac OS X, Windows RHEL, CentOS, Tomcat, Apache, MySQL, LDAP, SSH, BIND, JSON, CI/CD, Ruby, Python and PowerShell scripting.*

**Charter Communication, Irving, TX Aug 2016 - Feb 2017**

**Role: Sr. Cloud/****DevOps Engineer**

 **Responsibilities:**

* Designed and implemented scalable, secure cloud architecture based on **Amazon Web Services.** Involved in designing and deploying a large application utilizing **AWS stack (including EC2, Route53, S3, RDS, Dynamo DB, Lambda, VPC, SNS, SQS, IAM, Redshift)** focusing on high availability, fault tolerance, and auto-scaling in AWS Cloud Formation.
* Managed highly available and fault tolerant systems in **AWS**, through various **API**'s, console operations and **CLI**. Managed **AWS** infrastructure as code using **Terraform.**
* Wrote Lambda functions in **python** for AWS Lambda and invoked **python** scripts for data transformations and analytics on large data sets in **EMR** clusters and **AWS Kinesis** data streams.
* Utilized **AWS Glue** and **AWS Athena** to perform querying and analysis, and used **AWS Redshift** for data warehousing.
* Written **Terraform** templates for automating **VPCs**, **ELBs**, security groups, **SQS** queues, **S3** buckets, and continuing to replace the rest of our infrastructure. Managed different infrastructure resources such as Cloud, VMware, Bare Metal Servers, and **Docker** containers using Terraform.
* Produced comprehensive architecture strategy for environment mapping in **AWS** that involved **Active Directory, LDAP, AWS Identity and Access Management (IAM) Role** for AWS API Gateway platform.
* Setting up **AWS** direct connects and monitoring private network connection between AWS and corporate datacenter and other regions with network latency.
* Configured **CloudWatch** events to trigger Lambda functions, Auto Scaling groups and created SNS notifications using **S3** events for object loss notifications.
* Used **AWS Beanstalk** for deploying and scaling web applications and services developed with **Java**, **PHP, Node.js, Python, Ruby** and **Docker** on familiar servers like **Apache.**
* Installed and configured **Chef** and developed recipes for automated infrastructure deployment of monitoring applications for **OpenStack** Environment.  Made Backup scripts for storing the configuration of all **OpenStack** **services**.
* Used **Cinder** to enable persistent storage for applications deployed in **OpenStack** and implemented horizontal **Auto Scaling** use cases using **OpenStack** components.
* Implemented **Chef** Recipes for Deployment on build on internal Data Centre Servers. Also re-used and modified same Chef Recipes to create a Deployment directly into **Amazon** **EC2** instances.
* Implemented and designed **AWS**virtual servers by **Ansible roles** to ensure deployment of web applications.
* Created **Ansible** roles in **YAML** and defined tasks, variables, **files**, **handlers** and templates. Created inventory and configured the **Ansible** files for parallel deployment in **Ansible** for automating the Continuous delivery process.
* Worked on Integrating **Docker** container-based test infrastructure to **Jenkins** **CI** test flow and set up build environment integrating with **Git** and **JIRA** to trigger builds using WebHooks and Slave Machines.
* Extensively worked on **Docker** containers by deploying and maintaining production environment using AWS EC2 instances. Worked on infrastructure with Docker containerization using docker weave.
* Automated the installation of **Kubernetes** single node environment on a **Jenkins** slave node using Kubeadm setup scripts. Implemented a Continuous Delivery (CD) pipeline with Docker, **Jenkins** and **GitHub** and AWS AMI's.
* Used **Kubernetes** to deploy scale, load balance and manage **Docker** containers with multiple namespace ids.
* Integrated AWS with other systems like **Jenkins**, **Chef** and HP service Manager to develop **CI/CD** pipelines for automating Prod deployments using REST APIs.
* Worked on setting up **Jenkins** server and building jobs to provide continuous automated builds based on polling the **GIT SCM** during the day and periodically scheduled builds overnight to support development.
* Implemented a centralized logging system using log stash configured as an **ELK stack** (**Elastic** **search**, Log stash, and **Kibana**) to monitor system logs, VPC Flow logs, **Cloud** **Trail** Events, changes in S3.
* Maintained build related scripts developed in shell for **Maven** builds. Created and modified build configuration files including **POM.xml**.
* Used **ANT** as a build tool in java projects for the development of build artifacts on the source code. Involved in editing the existing **ANT** files in case of errors or changes in the project requirements.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using **GIT** source control.
* Configured and managed **Nagios** for monitoring over existing **AWS Cloud platform.** Build **Nagios** monitors for new services being deployed.
* Involved in setting up **JIRA** as defect tracking system and configured various workflows, customizations, and plugins for the JIRA bug/issue tracker.
* Worked on building scripts and automating solutions using scripting languages like **Shell**, **Python**, **Ruby**.
* Worked on Creating **Python** Scripts to Automate AWS services which include web servers, ELB, Cloud front Distribution, database, EC2 and database security groups, S3 bucket and application configuration in which this Script creates stacks, single servers or joins web servers to stacks.
* Worked on **SonarQube** for continuous inspection of code quality to provide automatic reviews which includes languages like Java, Python, and PHP.
* Supported infrastructure consisting of **RHEL** 4.x 5.x, 6.x, CentOS and **Ubuntu** 12.04 and 14.04. Installation, configuration, administration of RHEL OS on Standalone servers using kickstart installation.

**Environment and Tools*:*** *AWS EC2, S3, VPC, Route 53, Cloud Formation, IAM, Cloud watch, Elastic Search, Log Stash, Kibana, Ansible, Docker, Kubernetes, Terraform, Maven, Jenkins, Bitbucket, SVN, JIRA, Nagios, Splunk, RHEL, Solaris, CentOS, Shell scripting, Python Scripting, CI/CD*.

**Avon, Bangalore, India** **Jun 2014 - July 2016**

**Role: Cloud/DevOps Engineer**

**Responsibilities:**

* Worked in **AWS** environment, instrumental in utilizing Compute Services **(EC2, ELB)**, Storage Services **(S3, Elastic Block Storage), Elastic Beanstalk, VPC, SNS, IAM**.
* Designed & implemented **VPC** service for extension of on-premises datacentre with **AWS** Cloud using **VPN** & **Direct connect services**.
* Utilized **Cloud Watch** to monitor resources like **EC2, CPU memory, Amazon RDS DB services, EBS volumes** to set alarms for notification or automated actions to monitor logs for better understanding of the operations.
* Implemented **Chef** **cookbooks** for OS component configuration to keep **AWS** server’s template minimal and written recipes and cookbooks for configuring server side through **Chef**.
* Integrated **Chef cookbooks** into **Jenkins** jobs for CD framework and created roles, environments using **Chef** handlers for different auto kickoff requirement jobs.
* Written wrapper scripts to automate the deployment of **cookbooks** on **nodes** and running the **chef**-**client** on them in a **Chef**-**Solo** environment.
* Designed DevOps workflow for multiple applications by orchestrating **Test, Build, Release and Deploy phases** through various **CI/CD** pipelines using **Git, Jenkins, Chef** and build the deliverable artifacts using **Maven** as a build tool in **Jenkins** for **Java applications** and deploy them to various environments.
* Built end to end CI/CD Pipelines in **Jenkins** to retrieve code, compile applications, perform tests and push build artifacts to **Nexus**.
* Developed **Python** scripts to automate various system tasks, OS patches for dev environments, and deployment of applications to testing/ prod environments using Python OS modules.
* Created and maintained the **Shell** deployment scripts for **WebLogic** and **web application** servers.
* Worked with **Maven** for building the application, and written maven scripts and shell scripts to automate the build process and used **CI** tools like **Jenkins** to move from one environment to other environments.
* Managed the **Maven** Repository using **Nexus Artifactory** tool and used the same to share the binary (**EAR, WAR & JAR**) snapshots.
* Worked on source control management tools like **GIT** (GitHub), **Subversion** (SVN) and creating GIT repositories with specified branching strategies and integrating **GIT** into the continuous Integration (CI) environment along with **Jenkins**.
* Installed and configured **Nagios** to manage infrastructure by setting up email alerts and notifications using **python** scripts an executed them through **chef**.
* Experience with setting up **Linux** servers for Oracle Real Application Clusters and configuring **SAN** based mount points.

**Environment and Tools*:*** *AWS, S3, EBS, Redshift, IAM, EC2, Cloud Watch, SNS, Elastic Load Balancer, AWS Auto Scaling, Apache, Tomcat, NGNIX, Tomcat, Apache, JBOSS, JSON, GIT, Chef, Splunk, Oracle, Windows, Linux Shell scripting and Bash scripts.*

**Orion Technologies, Hyderabad, India** **Jun 2012 - May 2014**

**Role: Build and Release Engineer**

**Responsibilities:**

* Responsible for Creating Builds, Staging and deploying Software Content across multiple environments (**DEV, QA, Demo, Test, Staging, UAT and Production**).
* Designed and managed Build and Release cycle activities in Agile Methodologies. Developed build and deployment processes for Pre-production environments. Managed Sona type **Nexus** an **enterprise-level package** management server.
* Used **Jenkins** for **Continuous Integration** and deployment into **Tomcat** application server. Installed and Configured the **Nexus** repository manager for sharing the artifacts within the company.
* 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** and **Git**.
* Configured **GIT** with **Jenkins** and schedule jobs using **POLL SCM** option and integrated to automate the code checkout process. Wrote JUnit test cases for unit, integration, and functional tests, run automatically by **Jenkins** in the builds triggered by each push to **GIT.**
* Used **ANT** build tool for scripts deployment and deploy processes using **Jenkins** to move from one environment to other.
* Worked with installation, deployment and maintenance of middleware application servers to **RHEL Dev** and Test environments. Experience in managing **Apache** **Tomcat** Application Server.
* Involved in Building and configuring Red Hat **Linux** Servers using **Kick**s**tart** server as required for the project. Maintained maximum uptime and maximum performance capacity for enterprise production, **QA** and **UAT**/**staging**.

**Environment and Tools:** *Puppet, SVN, GIT, ANT, JIRA, Perl, Shell, Bamboo, RHEL, Windows, Bugzilla, Nexus, Nagios*