

**Anjali**

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**804-396-4582**

**Dev Ops Engineer | Amazon Web Services (AWS) | Continuous Integration (CI) | Continuous Delivery (CD) | Build & Release Management | Linux Administration| Configuration Management (CM) | Infrastructure Management | Automation**

**Professional Summary**

* **AWS/DEVOPS Engineer** with **8+ years** of professional IT experience in Dev Ops/Agile operations, AWS Cloud Management, SDLC, Unix/Linux Administration, Build and Release Management.
* Highly experienced in managing server infrastructure and administration of **Mission Critical**, highly available environments.
* Expertise in the areas of Software Development Life Cycle(SDLC) methodologies, **Change Management, Disaster Recovery**, **Failure Management**, Incident and Issue Tracking, **Cost Optimization**, Log Monitoring and Cloud Implementation.
* Hands-on experience in the leading Cloud technologies namely **AWS.**
* Good experience in Unix/Linux system administration, Server Builds, System builds, Installations, Upgrades, Migrations and Troubleshooting on **REDHAT** Linux, **CentOS**, **Ubuntu**, **Windows**, **Fedora**.
* Adept at architecting and deploying fault tolerant, highly available, cost effective and secure servers in **AWS**.
* Extensive experience in setting up the Enterprise infrastructure on AWS cloud, which includes utilization of Virtual Private Cloud (**VPC**), Elastic Cloud Computing (**EC2**), Elastic Load Balancer (**ELB**), Elastic Block Store (**EBS**), Simple Storage Service (**S3**), Simple Notification Service (**SNS**), Simple Queue Service (**SQS**), Security Groups, Auto Scaling, Relational Database System (**RDS**), Elastic IP’s, **IAM** and **Cloud Formation** services using AWS-Command Line Interface**(CLI)** and also enabling the enterprise environment compatible for Continuous Monitoring using Cloud Watch.
* Extensive experience in setting up the Enterprise infrastructure on Azure cloud
* Used **Docker** for virtualization, containerizing, and deploying the applications securely to fasten the Build and Release Engineering, performed automation tasks using **Docker Hub, Docker Engine, Docker Machine, Docker Compose and Docker Registry.**
* **Extensive Experience on Kubernetes by creating the Kubernetes clusters, deploying the applications in Azure container services(AKS) and Amazon ECS.**
* Extensively worked on **Jenkins/Hudson & Bamboo,VSTS** by installing, configuring, troubleshooting and maintaining for the purpose of Continuous Integration **(CI)** and for End-End automation of all builds and deployments.
* Architected and automated cloud infrastructure using **Chef**, **Puppet** and **Ansible** on multiple Cloud Servers.
* Expertise in Installation and configuration of automated tool **Puppet** which includes **Puppet** Master, Agent Nodes and an administration control workstation, thereby setting an automated platform.
* Expertise in setting up **Chef** Infra, Bootstrapping Nodes, creating and uploading Recipes, Node convergence in **Chef SCM** and worked with data bags, attributes, cookbooks, recipes and templates in **Chef**.
* Hands-on experience in provisioning **AWS** resources like **VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling, RDS using Cloud formation JSON** templates
* Highly experienced in Automating, Configuring and deploying instances on AWS ‘**Design-for-Failure**’ approaches.
* Extensively involved in Administration, Configuration Management, Continuous Integration, Continuous Deployment, Build & Release Management, Cloud Infrastructure provisioning, Monitoring, and Automation using **Jenkins, Ant, Maven, Chef, Puppet, Ansible, Docker, Nagios, SVN, GIT, Tomcat, Splunk.** **Experienced in Provisioning of IAAS &amp; PAAS Virtual Machines and Web\Worker roles on Microsoft Azure**
* **Classic and Resource Manager and troubleshooting issues on Azure VMs.**
* **Hands on experience with Microsoft Azure Cloud services, Storage Accounts and Virtual Networks.**
* Expertise in deploying the builds through **web application servers** like **Tomcat, JBoss, WebSphere** and **Web logic**.
* Worked on Build and deployment of Various **Xamarin Mobile, dotnet and Java applications**.
* Excellent knowledge in writing **Bash, Ruby, Python** and **PowerShell** scripts to automate the deployments.
* Experienced in log monitoring tools namely **Splunk** and **Nagios**.
* Worked extensively on developing apps, dashboards, creating data models, summary indexes, forward management and upgrading **Splunk infrastructure** as well.
* Adept at using Version Control tools like **Subversion and GIT** on multiple environments to track changes made by different departments in source code and held extensive migration of **Centralized to Distributed** VCS (Git).
* Experience in using **MAVEN and ANT** as build tools for building of Deployable Artifacts (jar, war & ear) from source code.
* Experienced in Bug Tracking tools like **JIRA.**
* Expertise in Deployment tools like **XL Deploy** and **Code Deploy**.
* Extensively worked With **VMware ESXi 5.1/5.5/6.0**, **vCenter Server**, Host Clustering with **HA, DRS**, **Replication Manager 5.x/6.0**, Site Recovery Manager, **vMotion**.
* Cognitively expert in enterprise architecture components **LDAP** and Windows Active Directory.
* Installed and maintained the machines with the updated Patches and necessary client software packages by using pkg\*, RPM\*, YUM\*, sw\*, etc...
* Knowledge of using Routed Protocols like **FTP, SFTP, SSH, HTTP, HTTPS** and **Direct connect.**
* Excellent understanding of Network topologies such as **LAN, WAN, VPN** and **Firewalls.**
* Configuring and maintaining network services such as **LDAP, DNS, NIS, DHCP, NFS, Web, mail, FTP.**
* Expertise in UNIX, RHEL 7/6.x/5.x, Centos 6.x/5.x, Solaris 9/10 and Windows
* Expertise in troubleshooting at **System level**, **Application level**, **Network level** sues generated while building, deploying and in production support.

**Technical Skills:**

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| --- | --- |
| **Operating Systems** | RHEL/Cent OS 5.x/6.x/7, Ubuntu,Windows Server 2003/2008/2012 |
| **Cloud Technologies** | AWS, Azure |
| **Databases** | My SQL, SQL Server, ORACLE, Mongo DB, Cassandra |
| **Monitoring Tools** | Cloud Watch, Nagios, Splunk, ELK |
| **Automation and Build Tools** | ANT, MAVEN, Jenkins, Bamboo, VSTS, TFS |
| **Configuration Management Tools** | Chef, Puppet, Ansible |
| **Virtualization Tools and Middleware** | VMware, Oracle Virtual box, Vagrant, Weblogic |
| **Version Control Tools** | GIT, TFVC,Tortoise SVN |
| **Scripting** | Bash, power Shell, Python, Ruby, Perl programming, Java, JavaScript, HTML |
| **Containerization** | **Docker and Kubernetes** |
| **Log Management** | ELK, Gray log, Splunk. |
| **Networking Infrastructure** | TCP/IP, DNS, DHCP, LDAP, ADDS, SAN. |

**Professional Experience:**

**Client: Becton &Dickinson Company, Reston, VA Sept2017-Current**

**Role: DevOps Engineer/Cloud Engineer**

**Responsibilities:**

* Worked on **BD** **Briight** diabetes management mobile application Which is a cloud based application with all the software components deployed on **Microsoft Azure.**
* Worked on MRA web Application Which is hosted on **AWS**
* As a **Dev Ops & Cloud Engineer**, worked in AWS environment, instrumental in utilizing Compute Services **(EC2, ELB)**, Storage Services **(S3, Glacier, Block Storage, Lifecycle Management policies), Cloud Formation(JSON Templates)**, **Elastic Beanstalk, Lambda, VPC, RDS, Trusted Advisor and Cloud Watch.**
* Managed EC2 instances utilizing **Launch Configuration**, **Auto scaling, Elastic Load balancing**, automated the process of provisioning infrastructure using **Cloud Formation templates**,**Terraform** and used **Cloud Watch** to create alarms and monitor environments.
* Designed & implemented VPC service for extension of on-premises datacenter with AWS Cloud using **VPN & Direct connects services**. Build and configure a virtual data center in the Amazon Web Services cloud to support Enterprise Data Warehouse hosting including **Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer, Auto Scaling Groups.**
* Migrating present **Linux** environment to AWS by creating and executing a migration plan, deployed EC2 instances in VPC, configured **security groups & NACL’s**, attached profiles and roles using AWS **Cloud Formation templates** and **Ansible** modules.
* Scripting infrastructure and (Linux) machine provisioning using bash and the Python **AWS-SDK**.
* Used Amazon **Route53** to manage DNS zones globally as well as to give public DNS names to ELB’s and Cloud front for Content Delivery.
* Used **IAM** to assign roles, to create and manage AWS users, groups, and permissions to use AWS resources. .
* Created Master-Slave configuration using existing Linux machines and EC2 instances to implement multiple parallel builds through a build farm, expertise in troubleshooting build and release job failures
* Deploying and maintaining production environment using AWS EC2 instances and Elastic Container Services with **Docker**.
* Created, configured and maintained Weblogic managed servers and server clusters.
* Deployed and maintained web, Java, and enterprise applications.
* Installed and configured plugins such as Apache, Tomcat, and Sun One with Weblogic.
* Deployed the applications on multiple Weblogic Servers and maintained Load Balancing, High Availability and Fail over functionality.
* Automated builds using **TFS** team build, VSTS and cruisecontrol.net build for .net applications.
* Setting up **CI-CD pipelines** on **VSTS, Bamboo** for .net core backend **microservices** which are hosted in **Azure** and front end **xamarin** based Andriod and IOS mobile applications.
* Deploying the **Xamarin based mobile applications to Google Play Store, Apple Store and Hockey App**.
* Automating **XTC tests on Microsoft App Centre**.
* Monitoring the applications on **kubernetes** by using Grafana and **OMS**
* Crash and Performance monitoring using **Raygun** portal.
* **Automated slack to notify production alerts** for CPU spikes and Memory usage spikes.
* Provide strategic guidance and direction in the use of tools, including open source offerings, for

Continuous Integration and Delivery.

* Provisioning the environments for **Kubernetes deployments**.
* Creating the **KubeCluster Environments by using ECS in AWS and AKS in Azure.**
* Creating the **docker files** based on the dev requirements, **building** the **docker images** and **pushing images** to the **Azure Container Registry** and **Amazon ECR Registry.**
* Scale up and scale down the **pods in Kubernetes** by using **Kubectl command line**.
* **Created Docker Image, configure Docker file, ignore file, deployed instances onto Kubernetes**. Container Orchestration with operating multiple pods.
* Designed and implemented ASP.NET Core 2.x micro services utilizing **docker for container virtualization** and **Kubernetes for container orchestration**.
* Experienced in Provisioning of IAAS &amp; PAAS Virtual Machines and Web\Worker roles on Microsoft

**Azure Classic and Azure Resource Manager** and troubleshooting issues on **Azure VMs.** Reduced costs by ~$3,000 each month by eliminating unnecessary servers and consolidating databases.

Implemented Git for version control of puppet modules and process documentation.

Creating the **Azure Resource groups, LoadBalancers,Virtual Machines, Azure cosmosDB and storage accounts** by using Powershell script

* Hands on experience with **Microsoft Azure Cloud services, Storage Accounts and Virtual Networks**.
* Built and deployed Docker containers to break up monolithic app into micro services, improving developer workflow, increasing scalability, and optimizing speed.
* Scale the applications, create high availability, providing outbound connections for virtual machines (VMs) inside the virtual network by translating their private IP addresses to public IP addresses by using **AzureLoad Balancers.**
* Deploying the **Microsevices as Platform as a Service in Azure** and **monitoring** them by using **AppInsights.**
* Deploying the **Microservices** in Kubernetes by using **Azure Container Services(AKS)**
* Used knowledge of .NET to Implement and maintained branching and build/release strategies for .NET

applications utilizing TFS. Co-ordinated with offshore team in completing delivery and helping them out in TFS

related issues.

* **Managed local deployments in Kubernetes, creating local cluster and deploying application containers.**
* Installing **Docker** using Docker tool box and installing and configuring **Kubernetes.**
* Installation of all prerquisite softwares in **Linux and Mac and Windos Build servers for Build and Deployments.**
* Container management using Docker by writing **Docker files** and set up the automated build on **Docker HUB**.
* Installed and configured Nexus repository manager for sharing artifacts between internal teams and created proxy **Nexus** repositories to speed up the build process.
* Responsible for CI and CD using **Jenkins**/**Bamboo**, **Maven** and **Ansible.**
* Used Ticketing tool **JIRA** to track defects and changes for change management, monitoring tools like **NewRelic** and **CloudWatch** in different work environments in real and container workspace.
* Managed **Ansible** Playbooks with **Ansible modules**, implemented CD automation using Ansible, managing existing servers and automation of build/configuration of new servers.
* Worked with Ansible for **Orchestration** of Deployments for various servers.
* Created customized modules, using existing modules in Ansible that can control Package System Resources.
* Writing ansible playbooks, replacing the dependency on **Chef Cookbooks and Chef Recipes** to automate infrastructure as a code.
* orchestrating environment deployment from OS all the way through the application layers of a solution, using tools such as Docker.
* Worked on **AWS Blue-Green deployments, Azure deployment Slots**(swapping of staging and production slots) for **reducing the downtime and highavailablity**.
* Created **Maven** scripts to create multiple deployment profiles and deploy the applications to Apache Tomcat**.**
* Ensured System Uptime by monitoring production systems and responding to issues with corrective action.
* Designed and Developed automation test scripts using **Python**.
* Build and Release **software baselines, code merges**, **branch and label creation** in **Subversion** and **GIT**, worked on migration from Subversion to **Git** (DVCS).
* Expertise in Installing, configuring and administering **Jenkins** Continuous Integration tool on Linux machines along with adding/updating plugins such as **GIT, ANT, Ansible, EC2, Sonar, Checkstyle, Deploy to Container, Build Pipeline etc.**
* Provided on-call support for **production** issues.

**Client: Charles Schwab, Chicago, IL Aug2015-Aug2017**

**Role: DevOps /AWS Engineer**

**Responsibilities**:

* Involved in Designing and Deploying Multiple applications Into **AWS** Cloud from on Premises.
* Administrator and maintained Source Code Repositories including **Git, Subversion**.
* Developed Custom Automation Build System using **Jenkins/Bamboo Build Forge on SVN**
* Created and maintained several build definitions and publish profiles to handle automated builds in an **Agile/SCRUM environment**.
* Integrated **Bitbucket and Ansible with Jenkins** using Ansible Plugin to build Continues Integration and Continues Deployment pipeline within Jenkins.
* Setting up different **S3** buckets with KMS encryption and attach different policies to setup restricted access.
* **AWS data backup (Snapshot, AMI creation**) techniques, along with data security within AWS.
* Responsible for Administrating **Ansible Tower** and worked on writing various **Ansible playbooks** to automate routine tasks and thereby improving the productivity.
* Used **Chef** to manage Web Applications, Config Files, Database Commands and Packages.
* Maintained automated build systems like **ANT and MAVEN** and implement new features or scripts for the build system.
* Documented all SCM processes to strengthen and streamline the build process.
* Involved in designing and deploying multitude applications utilizing almost all of the AWS stack (Including **EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM**) focusing on high-availability, fault tolerance, and auto-scaling in AWS Cloud formation with JSON templates.
* Migrated the current **Linux** environment to AWS/RHEL Linux environment and used **auto scaling** feature and Involved in Remediation and patching of Unix/Linux Servers.
* Created **AWS Route53** to route traffic between different regions.
* Used **MySQL, Dynamo DB and ElastiCache** to perform basic database administration.
* Build out server automation with Continuous Integration - Continuous Deployment tools like Jenkins/Maven for deployment and build management system.
* Used **AWS Beanstalk** for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python and Ruby on familiar server Apache.
* Designed AWS Cloud Formation templates to create custom sized **VPC, subnets, NAT** to ensure successful deployment of Web applications and database templates.
* Extracted the data from **MySQL, SQL** Server using Sqoop and loaded data into **Cassandra**.
* Maintained agile methodologies and strategies throughout development processes.
* Implemented **docker-maven-plugin** in and maven pom to build docker images for all services and later used Dockerfile to build the docker images from the java jar files.
* Worked on **Docker container** snapshots, attaching to a running container, removing images, managing directory structures and managing containers in AWS ECS.
* Extensively worked on creating **Docker file, build the images, running Docker containers and manage Dockerized application** by using Docker -Cloud.
* Installed and configured configuration tool such as Chef Server / workstation and nodes via CLI tools to AWS nodes
* Rapid-provisioning and configuration management for Ubuntu using Chef on Amazon Web Services.
* Written/Developed **Chef Cookbooks** to automate the entire deployment process as well as infrastructure admin tasks
* Deal with various merging conflicts and pushes appropriate code into GitHub repository.
* Created continuous integration system using maven in Jenkins, and used **Ansible** full automation for faster and flawless deployments.
* Automated the Web Logic deployments using **Shell scripts**.
* Participated in configuring and monitoring distributed and multiple platform servers using Ansible.
* Managed **Ansible Playbooks** with Ansible roles. Used file module in Ansible playbook to copy and remove files on remote systems
* Implemented and designed AWS virtual servers by **Ansible roles** to ensure deployment of web applications.
* Experience in managing virtual instances and disks using **Chef Enterprise**.
* Created scripts in Python which Integrated with Amazon API to control instance operations.
* Created multiple **Python, Perl and UNIX shell scripts** for various application level tasks.
* Built and deployed J2EE application in Jboss using Python scripts. Published the Release notes for all the releases using Confluence.

**Environment**: Azure,AWS, Ansible, Jenkins,TFS, Maven, JIRA, Linux, Docker, Kubernetes, NewRelic, Power Shell, Bash, Python, Chef.

**Client: ICICI, Hyderabad Oct 2013–Apr2015**

**Role: Devops Engineer**

**•** Migrated all the source code from **subversion to GIT.**

• Supporting engineering plans and schedules by providing **CM/Release Engineering** services to build, deploy, develop scripts, oversee branch and merge strategies, and build automated tools as necessary to offer services to engineering team.

• Configuring Jenkins for developers to bounce the application container, to get the application, container, and access logs by using **ANT scripts**.

• Used the continuous integration tool Hudson to automate the daily processes.

• Migrating J2EE applications to **UNIX and Windows** environments by configuring application via IDE Eclipse, Subversion, and Jenkins.

• Integrated automated build in **Jenkins**.

• Update Maven scripts to use **Artifactory** repo instead of local repositories.

• Managing **GIT** version control system in creating branches, tags, merge, resolving conflicts.

• Created Shell scripts using Python and PHP for test automation.Working closely with Web Administrators to understand, participate, and experience the technical architect for web sites such as **Apache, Jboss, Web Logic and deploying J2EE Applications to these environments.**

• Driven forces for implementing Jira and Confluence for ticket and issue tracking, Chef to aid with our deployment process, and migrating in-house systems to Virtual servers and cloud services.

• For applications that are developed in a regular pace, builds and deployments were as per request.

• Develop and maintain **ANT (build.xml) and Maven (pom.xml) scripts**.

• Automated the weekly deployments utilizing CI tool Jenkins.

• Upgraded and Migrated to Jira from Clear Quest for bug tracking and project tracking.

• **JIRA**: Administrated, maintained documentation and provided training to the users

• Created Web Hooks which triggers builds in Jenkins for the legacy products.

• Developed & improved build communication, documenting build processes & procedures.

• Deploy production packages to web servers and application servers according to business needs.

**Environment**: Subversion, Hudson/Jenkins, Ant, Maven, GIT, Chef, Accurev, Apache Tomcat, Web sphere, Java, Spring MVC, JSF, Struts, Python, PHP**.**

**Client: Magna Infotech, Hyderabad** **May 2010–Sep 2013**

**Role: Build/Release Engineer**

**Responsibilities**:

* Involved in identifying build errors in the system and identify the build issue and escalate it to the concerned team after careful analysis. Work and coordinate with them to get the fix in the release.
* Installation and configuration of **Red Hat Linux**, **Solaris, Debian, Ubuntu, Fedora and CentOS** on new server builds as well as during the upgrade situations.
* Adding packages in Linux using rpm, yum, apt-get, etc. Installation, Configuration & Upgrade of Solaris and Linux operating system.
* Problems & performance issues; deployed latest patches for Sun, **Linux** and Application servers, Performed **Solaris and Red Hat Linux Kernel** Tuning for TCP stack.
* Installation **Red Hat Linux 8, 9.0 on Dell, Proliant, Enterprise Server 4.0**.
* Installation and administration of TCP/IP, NFS, DNS, NTP, Auto mounts, Send mail and print servers as per the client's requirement.
* Installed, managed Verities Volume Manager 3.5 (VxVM) on Solaris 9.
* Experience with EMC storage devices ClariionFC4700/CXx and Symmetrix DMX).
* Experienced with HP storage Works SAN Switches 2/16v (Brocade silkworm).
* Network trouble shooting using 'ndd', 'traceroute', 'netstat', 'ifconfig' and 'snoop' etc.
* Installation of Web sphere, upgraded to service pack updates, installed IBM patches, configuring and creation new admin & managed servers, start & stop Web sphere server.
* Created Role Based Access Control (RBAC) for users.
* Linux kernel memory upgrades and swaps area. Red hat Linux Kickstart Installation Sun Solaris Jump start Installation. Configuring **DNS, IDNS, DHCP, NIS, NFS** in Sun Solaris 8/9 & other Network services.
* Worked on Continuous Integration System i.e. Jenkins. Used Jenkins for official nightly build, test and managing change list. Installed Multiple Plugins for smooth build and release build pipelines.
* Migrated out core repository from SVN to GIT. In this process I was involved in individually migrate the entire code base from subversion to git ensuring that health of our builds isn’t affected. Performed high level merges of branches, code bases.
* Maintained build related scripts developed in **ANT, Python and shell**.
* Involved in administrating git server and continuous Integration system like Jenkins and handled escalations from developers across the globe.
* Involved in deploying the content cloud platform on **Amazon AWS using EC2, S3, and EBS**.
* Modified ANT scripts to build the JAR’s, Class files, WAR files and EAR files from VOB’s for Java applications and MS builds for all .Net applications. Enhanced Maven pom.xml with additional plug-ins for robust builds.
* Building & configuring Red hat Linux systems over the network, implementing automated tasks through crontab, resolving tickets according to the priority basis.
* Create and maintain nightly builds, hot fix builds/branches, custom and private builds.
* Used knowledge of .NET to Implement and maintained branching and build/release strategies for .NET applications utilizing TFS. Co-ordinate with offshore team in completing delivery and helping them out in TFS related issues
* By using **JIRA/CONFLUENCE** we maintain our product release wikis on confluence. And administer JIRA and manage tickets raised by keeping a close eye.
* Designed, developed, enhanced and maintained Web based UI for monitoring purposes and scripted reporting tools (in PHP & BASH) for verifying the build logs for frequently observed build and test issues.
* Key member of the build team that works on how to reduce build time. We used cache to reduce compilation time and redundancies.
* Active participant in software configuration and change management processes to improve build accuracy, time, version controlling, and migration of code onto different build environments.
* Performed periodic customer releases through git pushes to shared, private and public servers. We use cron tabs, automated scripts to do continuous delivery and continuous deployment.
* Perform biweekly build cycle and testing processes.
* Used ANT and artifacts on the source code.
* Installed and Configured Continuum jobs for automating some build Processes.
* Installed and Configured Nexus to manage the artifacts in different Repositories.
* Configured and automated the Jenkins Build jobs for Continuous Integration.
* Used Apache Tomcat as application server for deploying the artifacts.
* Developed **UNIX and Perl** Scripts for the purpose of manual deployment of the code to the
* Coordinated Release effort amongst various teams (Integration, QA, Testing, and Business Analysis) in geographically separated environment.
* Used Perl/Shell to automate build and deployment Process.
* Documented the deployment process (Migration Doc) of code to production.

**Environment:** GIT, Subversion, ANT, MAVEN, Java.J2EE, Hudson/Jenkins, Apache Tomcat, UNIX,

JIRA, Perl Scripts and Shell Scripts.