

**Abhilash Chava**

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**PROFESSIONAL SUMMARY**

* Over 8+ years of experience in IT industry comprising of delivery management, design, development, release & deployment and cloud implementation.
* Good experience on DevOps tools such as **Ansible, Puppet, Chef, Vagrant, Jenkins, maven, ANT, SVN, GIT** and **Docker.**
* Experience in Infrastructure Development and Operations involving **AWS Cloud** platforms, **EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling.**
* Set-up database in AWS using RDS, storage using S3 bucket and configuring instance backups to S3 bucket.
* Worked with IAM service creating new **IAM users & groups, defining roles** and **policies** and Identity providers.
* Created alarms and trigger points in **Cloud Watch** based on thresholds and monitored server’s performance, CPU Utilization, disk usage. used **Splunk** to detect Prod issues.
* Used **terraform** in managing resource scheduling, disposable environments and multitier applications.
* Experience in Configuration Management tools like **Ansible, Puppet and Chef**.
* Implemented **puppet** modules to automate configuration of a broad range of services.
* Experience in configuring and managing Puppet master server and experience in updating and creating modules and pushing them to puppet clients.Configured **Nagios** to monitor **EC2** Linux instances with **puppet** automation.
* Experience in writing **ansible/puppet playbooks/manifests** to automate infrastructure as code.
* Experience in setting up **Chef Workstation, Server and Clients**, and maintained **Chef Recipes** and **cookbooks** to simplify and expedite deployment of applications and mitigate user error.
* Used **GIT** to keep track of all changes in source code.
* Experienced in Branching, Merging, Tagging and maintaining the version across the environment using SCM tools like **GIT and Subversion (SVN)** on Linux platforms.
* Set up Continuous integration for major releases in Jenkins.
* Administration of **Jenkins server**- Includes Setup of Jenkins Master, Slave, Configure Nightly builds, and parameterized builds and deployment automation.
* Experienced with **Docker** container service, and Dockerized applications by creating **Docker images** from **Docker file**.
* Hands on experience in Docker Architecture using Kubernetes.
* Familiarity with **Kubernetes, Mesos, Docker Swarm.**
* Experience inmonitoring tools like Nagios, Splunk and cloud watch.
* Experience in using **Tomcat, web logic, JBOSS, web sphere** application servers for deployments.
* Expertise in using build tools like **Maven, ANT** for the building of deployable artifacts such as **Jar**, **War**&**Ear** from source code. Application Deployments & Environment Configuration Using Puppet.
* Experience in managing the artifacts generated by **MAVEN** in the **Nexus repository**.
* Experience in Querying RDBMS such as **Oracle, MYSQL** and **SQL** server by using **PL/SQL** for data integrity.
* Hands on Experience in writing, shell scripts, **Bash, Perl, Python, Ruby** scripting on Linux.
* Experience with bug tracking tools like **JIRA, Bugzilla**.
* Exposed to all aspects of Software Development Life Cycle such as Analysis, planning, Developing, testing and implementing and post-production analysis of the project**.**
* Experience in installing patches, upgrades, system configuration, performance tuning **Unix/Linux/windows** systems.
* Managed environments **DEV, QA, UAT** and **PROD** for various releases and designed instance strategies.
* Ability to grasp latest technologies and to properly apply new tools to build applications.
* Excellent written and verbal communication skills, strong organizational skills, and a hard-working team player.

**TECHNICAL SKILLS:**

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| SCM Tools | Subversion(SVN), GIT, ClearCase, Perforce. |
| Build Tools | Ant, Maven, Gradle. |
| CI Tools | Jenkins, Hudson, Build forge. |
| Configuration Tools | Puppet, Ansible, Chef. |
| Automation Tools | Docker, kubernetes and Vagrant. |
| Monitoring Tools | Nagios, Splunk, Cloud watch. |
| Tracking Tools | Jira, Bugzilla, Remedy, ClearQuest. |
| Cloud Platforms | AWS, Azure. |
| AWS Services | EC2, ELB, VPC, RDS, IAM, Cloud Formation, S3, Cloud Watch, Cloud Trial, SNS, SQS, SWF, EBS, AMI, Route 53, Dynamo DB, Redshift. |
| Database System | SQL Server, NoSQL, Oracle, Mongo db. |
| Scripting Languages | Shell Scripting, Python, Ruby, Perl. |
| Servers | WebLogic, WebSphere, JBOSS, Apache Tomcat, Nginix. |
| Platforms | UNIX, Linux, MS DOS, Windows, Red hat, Centos. |

**Professional Experience:**

**Change Health Care, Nashville, TN May 15 – Till date**

**Sr. System/AWS Engineer**

**Responsibilities:**

* Migrating and maintaining build and test environments into the Cloud Infrastructure.
* Worked on spinning up **EC2**instances, Creating **IAM** Users and Roles, Creating **Auto Scaling** groups, **Load balancers** and monitoring through **Cloud Watch** for the applications like**S3,VPC**,**RDS**, **AMI**,**Route 53**, etc.
* Utilize **AWS CLI** to automate backups of ephemeral data-stores to S3 buckets, **EBS** and create nightly AMIs for mission critical production servers as backups.
* Used **Git & Subversion(SVN)**as source code repositories, managed for branching, merging &tagging the files.
* Used Jenkins for CI and CD purposes and build failures alerts, management of build tool plugins like **Maven**.
* Experience working on Docker Hub. Created **Docker images** using a **Docker file**, worked on Docker container snapshots, removing images and managing Docker volumes.
* Worked on **Jenkins** and **Docker** interactively and integrating together for enterprise scale infrastructure configuration andapplication deployments.
* Integrated **Docker container orchestration** framework using **Kubernetes** by creating **pods**, **Config Maps** and **deployments**. Managed Kubernetes charts Using HELM.
* Used **Kubernetes** to manage containerized applications using its nodes, ConfigMaps, selector, Services and deployed application containers as **Pods**.
* Worked on **Terraform**for managing the infrastructure through the terminal sessions and executing the scripts through the terminal. Used terraform for automating VPC’S, S3 buckets, and security groups.
* Used various components of Chef including **chef server, workstations, Nodes, configurations of chef-client** and writing **cookbooks** and recipes for Chef and assigning roles to nodes.
* Maintained build related scripts developed in shell for **Maven builds**. Created and modified build configuration files including **POM.xml**. Scheduled automated nightly builds using Jenkins.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using **Ansible** playbooks and has Integrated Ansible with Jenkins.
* Demonstrated how **Ansible** along with **Ansible Tower** can be used to automate different software development processes all over the organization.
* Configured the Ansible playbooks with Ansible Tower so that other users can run them with just push of a button.
* Performance Monitoring of CPU, Memory, Disks, Network using various monitoring tools like **Nagios**.
* Automated the contiguous process writing code using **shell, Bash, python** scripting languages.
* Deployed the java application into web application servers like **Apache, Tomcat**.
* Designed workflows in **Atlassian JIRA** to deal with issues, and maintained all the user stories for tracking as per Agile.

**Environment: CHEF, Ansible, AWS, GIT, Jenkins, Terraform, Docker, ANT, MAVEN, Shell Scripting, Kubernetes, SHELL Scripting, Python, JIRA, NAGIOS, LINUX, Red Hat.**

**Thomson Reuters, Dallas, TX Nov 14 – Feb 15**

**Sr. DevOps / AWS Cloud Engineer**

**Responsibilities:**

* Planning, deploying, monitoring, and maintaining Amazon **AWS** cloud infrastructure consisting of multiple EC2 nodes and VMWare VM’s as required in the environment.
* DevOps and AWS cloud Engineer for a team that involved different development teams and multiple simultaneous software releases.
* Creating **S3 buckets** and also managing policies for S3 bucket and utilized S3 bucket and glacier for Archival storage and backup on AWS.Configured **S3** to host static web content.
* Designed AWS Cloud Formation templates to create custom sized **VPC**, **subnets, NAT** to ensure successful deployment of WEB applications and database templates.
* Used **Elastic Load balancer** for pinging **EC2** instances in round-robin process and health checking of EC2 instances along with **Route 53**. Created monitors, alarams and notifications for EC2 hosts Using Cloud Watch.
* Used **Terraform** in **AWS VPC** to automatically setup and modify settings by interfacing with control layer.
* Deploy and monitor scalable infrastructure on Amazon services (AWS) & configuration management using puppet.
* Deployed **LAMP** based applications in AWS environment, including provisioning **MYSQL- RDS** and establishes connectivity between **EC2** instance and MySQL-RDS via security groups.
* Designed **Puppet** modules to manage configurations and automate install process.
* Maintenance of source code in GIT. Extensive experience in using version control systems includes **Subversion(SVN)**, **GIT** and **GITHUB**.Implemented continous integration using **Jenkins** and **GIT**.
* Creating repositories, branches, tags in GIT and assist developers to fix merging issues and Creating Local Virtual Repositories in Artifactory for the project and release builds.
* Implemented the setup for Master slave architecture to improve the Performance of Jenkins.
* Generated scripts in Maven, **Perl** & **Bash Shell**, build activities in QA, Staging and Production environments.
* Worked on docker and created virtual instances with docker.
* Worked on **Docke**r **container** snapshots, attaching to a running container, removing images, managing directory structures and managing containers.
* Documented release history, build configuration and build procedures in detail.
* Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in Jenkins to move from one environment to other environments.
* Expertise in JIRA in issue tracking and project management, Change Management and Release Management.
* Responsible for ensuring Systems & Network Security, maintaining performance and setting up monitoring using **Cloud Watch** and **Nagios**.

**Environment: Puppet, AWS (EC2, VPC, ELB, S3, RDS, Cloud Watch, Route 53, VPC, EBS, ELB), GIT, Jenkins, Terraform,Docker, ANT, MAVEN, Shell Scripting, Perl Scripting, Python,JIRA, NAGIOS, UNIX, LINUX.**

**Bed Bath and Beyond, Union, NJ Jan 14 – Oct 14**

**Role: DevOps Engineer**

**Responsibilities:**

* Designing and implementing for fully automated server build management, monitoring and deployment by using Devops technologies like Ansible.
* Used **GIT** & **SVN** as source control systems to manage code.
* Involved in leading Automation Deployment Team by working with **Ansible**.
* Created Ansible playbooks, to automate system operations.
* standard business requirements and create cloud based solutions to meet those requirements, Architect cloud applications on **Azure**.
* Wrote **ANT** and **MAVEN** Scripts to automate the Build Process using **Jenkins**.
* Involved in editing the existing ANT/MAVEN files in case of errors or changes in the project requirements.
* Used **Shell/Perl** Scripts to automate the Deployment Process.
* Used **Jenkins**, **Build forge** for Continuous Integration and deployment into Tomcat Application Server.
* Coordinating with development teams to perform builds and resolve build issues.
* Coordinated with developers, Analyst and Mangers to make sure that code is deployed in the Prod environment.
* Built and Deployed Java/J2EE to a web application server in an Agile (**CI**) environment and automated the whole process.
* Maintained **JIRA** for tracking and updating project defects and tasks.
* Maintained and troubleshoot systems performance and network monitoring with **Nagios**.
* Developed **Python** batch processors to consume and produce various feeds.
* Managed and document all post deployment issues utilizing the post Deployments Issue Log.

**Environment: Ansible, Python, SVN, GIT, Jenkins, Azure, Apache Tomcat, ANT, Shell Scripts, Perl Scripts, MAVEN, JIRA, NAGIOS, UNIX, LINUX.**

**Sun Trust Bank, Atlanta, GA Sep 10 – Dec 13**

**Build/Release Engineer**

**Responsibilities:**

* Release Engineer for a team that involved different development teams and multiple software releases.
* Developed and implemented Software Release Management strategies for applications according to agile process.
* Built and Deployed **Java/J2EE** to a web application server in an Agile continuous integration environment and automated the entire process. Build and deploys **J2EE** applications in Web Sphere.
* Created **Puppet manifests**, profiles and roles module to automate system operations.
* Assist with maintaining current build systems, developed build scripts, and maintained the source control system.
* Used IBM Rational **Clear Case** (UCM) as Version Control.
* Managing the source codes repository of multiple development applications using SVN as a code repository.
* Developed **Shell/Perl/Python** Scripts for automation purpose.
* Responsible for designing and deploying best SCM processes and procedures.
* Used **Jenkins** as a continuous Integration tool for automation of daily process.
* Involved in writing **POM** files to establish the code quality tools integration.
* Releasing code to testing regions or staging areas according to the schedule published.
* Build and deployed J2EE applications in **WebLogic**.
* Used **ClearQuest** as a ticket tracking tool.
* Monitoring System/Application Logs of server using **Splunk** to detect Prod issues.

**Environment: Java/J2EE, SVN, GIT, Jenkins, Puppet, Maven, ANT, WebLogic, Python Scripts, Perl Scripts, Shell Scripts, Splunk, Clear Quest.**

**HDFC Bank, India Jan 09 – Aug 10**

**Role: Linux Administrator**

**Responsibilities:**

* Administered, maintained **Red Hat** (RHEL 5x, 6x, SUSE 10, 11, CENTOS 5, 6) operating systems, Troubleshooting Hardware, Operating System Application & Network problems and performance issues; Deployed latest patches for, **Linux** and Application servers, Performed **Red Hat Linux** Kernel Tuning.
* Created and modified applicaation related objects, created profiles, users, roles and maintained system security.
* Experience in implementing and configuring network service such as **HTTP**, **DHCP**, and **TFTP**.
* Administered Linux servers for several functions including **Apache/Tomcat** server, mail server and **MySQL** databases in both development and production.
* Managed Disks and File systems using **LVM** on **Linux**
* Performing failover and integrity test on new servers before rolling out to production.
* Planned, scheduled and implemented OS patches on Linux boxes as a part of proactive maintenance.
* Monitoring CPU, memory, Hardware and software RAID, file systems, network using the tools **NAGIOS** monitoring.
* Installed configured **Virtual Network Computing** (VNC) server/client.
* Performing kernel and database configuration optimization such that it limits i/o resource utilization on disks.
* Maintained proper documentation of all the activities carried out during the project.

**Environment: Red Hat Linux, CentOS, Autosys, VMware vSphere 4., VMware ESX 3.5.0, Shell Scripting, Tomcat, MYSQL, Nagios.**