**Kavya V**

**Sr. Devops Engineer**

**Contact: 320-245-7524**

**Email:** [**vkavya292@gmail.com**](mailto:vkavya292@gmail.com)

**PROFESSIONAL SUMMARY**

* Over 8 years of experience in IT industry as a **Cloud Engineer-DevOps Build** and **Release Engineer** with major focus on **Cloud Resource Utilization, Infrastructure Automation, Continuous Integration, Continuous Delivery, Continuous Deployment, Automation of Configuration Management and Security**.
* Experienced in Amazon Web Services provided services like **EC2, EBS, ELB, S3, RDS, VPC, SNS, Route 53, CloudFront, CloudWatch, CloudTrail, CloudFormation, Auto Scaling, IAM, Elastic Bean Stalk, Data Pipeline** and **Security Groups** in a highly available and scalable production environment.
* Converted existing **Terraform** modules that had version conflicts to utilize cloud formation during **Terraform** deployments to enable more control or missing capabilities
* Extensive experience in Linux/Unix system Administration, **System Builds, Server Builds, Installations, Upgrades, Patches, Migration, Trouble shooting on RHEL.**
* Good understanding of storage concepts. Experience in designing and implementing **Azure** Storage.
* 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.**
* Defined AWS Security Groups which acted as **virtual firewalls** that controlled the traffic allowed to reach one or more **AWS EC2 instances**. And Worked on **Amazon Kinesis** to manage streaming data.
* Ability to manage **SCM** processes which include **compiling, packaging, deploying and application configurations.**
* Worked on Ansible to manage **Web Applications, Config Files, Data Base, Commands, Users Mount Points,** and **Packages.** Andworked on Ansibleto assist **in building automation policies.**
* Experience with Atlassian tools like Bamboo, Jira, and confluence.
* Install and configure IBM Security **AppScan** Source for Development (Visual Studio Plug-in).
* Involved in Application Deployments & Environment configuration using **Chef, Puppet**.
* Managed on-site OS/Applications/Services/Packages using Chef as well as AWS for **EC2/S3/Route53 & ELB with Chef Cookbooks**. Installed Chef-Server Enterprise **On-Premise/WorkStation/ Bootstrapped the Nodes using Knife.**
* Wrote recipes and **cookbooks** and uploaded them to the **Chef server.**
* Worked on different **PaaS** like **OpenShift** and **AWS Elastic-Beanstalk**.
* Worked with **Chef Enterprise Hosted as well as On-Premise, Installed Workstation, Bootstrapped Nodes**.
* Rewrote many Puppet modules to **modern code-quality standards**.
* Migrated more than 70 physical servers (Windows and Linux) into the **Google Cloud** Platform.
* Involved in managing Nodes automatically added/removed themselves via **Puppet.**
* Deployed the application **MSBuild** process and developed build definitions for new solutions in place.
* Extensive experience in using Version control systems includes **Subversion (SVN), GIT, and Clearcase**.
* Used GIT as source code management tool: **creating local repo, cloning the repo, adding, committing, pushing the changes in the local repositories**, saving changes for later (Stash), **recovering files, branching, creating tags, viewing logs, pulling latest commits, etc.**
* Involved in creation and deletion of alias related to respective indices on **Kibana** and used **Kibana** in visualizing the indices that are loaded into **Elastic Search**.
* Involved in using build tools like **MAVEN** and **ANT** for the building of deployable artifacts such as war & ear from source code.
* Studied the current build and release process and automated the process using **PowerShell** scripts.
* Efficient experience in using **Nexus** and **Artifactory Repository** managers for **Maven builds**.
* Worked as part of support team handling issues reported by customers.
* Familiarity with **Kubernetes, Mesos, Docker Swarm**. Identified and resolved defects in the **Build Forge** product.
* Ability in development and execution of **XML, RUBY** and **SHELL** scripts.
* Wrote deployment Automation scripts for multiple JAVA/J2EE Applications.
* Experience in working with various **CI/CD** tools like **Hudson/Jenkins, Bamboo, Sonar, Subversion, Team foundation server (TFS), Accurev and Nexus, Artifactory.**
* Created proof of concept for **CI** with **VSTS.** And Created manual tests in **VSTS** test manager.
* Monitored the servers & applications using **Nagios** and **Splunk**.
* Expertise in Installing and Managing **LDAP, NIS, NFS, DHCP** and **DNS**.
* Tested **Web services /XML/SOAP** and **RESTFULL** services using Soap UI tool.
* Experience in automation testing using **Selenium WebDriver/RC/IDE/Grid, Junit/TestNG, ANT, Maven, Bamboo** and **Jenkins/Hudson.**
* Continuous integration and automated deployment and management using **TeamCity, Puppet, Maven, Ant** and comparable tools.

**TECHNICAL SKILLS**

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| --- | --- |
| Operating Systems | Red Hat Linux (Enterprise Linux 4/5/6), UBUNTU, SUSE 8/9/10. IBM Servers, Wintel, HP ML 350 G6, |
| Source control tools | Subversion, Clear case, GIT and Perforce |
| Build Tools | ANT, MAVEN, Gradle |
| CI Tools | Hudson, Jenkins, AnthillPro, TeamCity and Build Forge |
| Repositories | Nexus, Artifactory. |
| CM Tools | Chef, puppet , Ansible, Rundesk |
| Languages | Perl scripting, Shell scripting, Python, SQL, JavaScript |
| Tracking tools | JIRA, Remedy, Clear Quest, Bugzilla |
| Web server | Web logic, Web Sphere, Apache Tomcat, JBOSS |
| Cloud Services | EC2, ELB, VPC, RDS, IAM, Route53, Cloud Formation, S3, Cloud Watch, Cloud Front, Cloud Trail, EBS, SNS, SQS, SWF, EBS, RDS, Dynamo DB, NAT Gateways, Subnets, Security Groups, NACL's, Code Deploy, Code Pipeline, Code Build, Code Commit and Microsoft Azure. |
| Databases | Oracle, SQL SERVER, MY SQL, cloud |
| Networking | TCP/IP, NFS, DNS, DHCP, WAN, SMTP, LAN, FTP/TFTP, SNMP, ARP/RARP, IPX/SPX, PPP, IGRP, EIGRP, NIS, NIS+ |
| Scripting | BASH, SHELL, PYTHON, POWERSHELL, RUBY, AND PERL. |

**PROFESSIONAL EXPERIENCE**

**Getaroom, Dallas - TX Nov 2017 – Till Date**

**Sr. DevOps Engineer**

**Responsibilities:**

* Responsible for **AWS** platform and its dimensions of scalability including **VPC, EC2, ELB, S3, and EBS, ROUTE 53**.
* Skilled in Infrastructure Development and Operations involving AWS Cloud platforms**, EC2, EBS, S3, VPC, RDS, SES, ELB, Auto scaling, Cloud Front, Cloud Formation, Elastic Cache, Cloud Watch, SNS.**
* Involved in designing and deploying multitude applications utilizing almost all 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.
* Automate infrastructure creation, deployment and recovery using **Ansible/Salt, Docker, Terraform &** **Jenkins**
* Migrating **servers, databases** and **applications** to **AWS** and **Google Cloud Platform.**
* Involved in Planning, deploying, monitoring, and maintaining **AWS** cloud infrastructure consisting of multiple EC2 nodes and VMware Vm's as required in the environment.
* Used **Route53** to route traffic between different regions.
* Hands on experience on using **Terraform** along with **packer** to create custom **machine images** and automation tools like **Chef/Ansible** to install software’s after the infrastructure is provisioned.
* Azure PaaS Solutions like Azure Web Apps, Redis Cache, Application insights Azure Server less Functions, Azure Stream Analytics, SQL Azure and Azure Storage.
* Involved in Creating and Managing Virtual Machines in Windows Azure and setting up communication with the help of endpoints.
* Selecting the appropriate Azure service based on compute, data, or security requirements and leveraging Azure SDKs to interact with Azure services from your application.
* Utilized **Elastic Load Balancers** with **EC2 auto scaling groups**.
* Used Identify and Access Management (**IAM**) to assign roles and to create and manage AWS users and groups, and use permissions to **AWS**resources and Automated the AWS resources by using **Terraform.**
* Worked with **Ansible Playbooks, modules and roles**.
* Developed and maintain **MSBuild**scripts to build, custom configuration transforms, and server deployment.
* Ability to work on Infrastructure as a service using **Terraform** for infrastructure automation.
* Wrote and maintained various **Ansible** modules for the upstream Ansible repository.
* Used **Ansible server** and workstation to manage and configure nodes.
* Automated AWS infrastructure via **Ansible** and **Jenkins** - software and services configuration using Ansible Playbooks.
* Involved in migrating applications to **AWS EC2** and **S3.**
* Integrated **Bamboo**with AWS cloud & configured elastic **Bamboo**.
* Involved in **PaaS** solution such as **Red Hat OpenShift**.
* Install, upgrade and maintain **OpenShift** (Kubernetes) test and production clusters.
* Good understanding of OpenShift platform in managing **Docker** containers and **Kubernetes Clusters**.
* Configured Apache Web server in the Linux **AWS** cloud environment using **CHEF** automation.
* Exposure in Elastic Cloud Computing (**EC2**) instances utilizing auto scaling, Elastic Load Balancing, and Glacier for our **QA** and **UAT** environments as well as infrastructure servers for **GIT** and **CHEF**.
* Good skills in Install, configuration, and operation of **Red Hat OpenShift**.
* Involved in creating Snapshots and Amazon Machine Images (**AMI's**) of **EC2** Instance for snapshots and creating clone's instances.
* Utilized Configuration Management tool **CHEF** and created **Chef Cookbooks** using recipes to automate system operations.
* Involved in setting up the **Chef repo, Chef Work stations** and **Chef Nodes**.
* Good understanding in Pipelined Application Logs from App Servers to **Elastic Search** (ELK Stack) through Log stash.
* Created **Docker images** using a **Dockerfile**, worked on **Docker container snapshots**, removing images and managing **Docker volumes**.
* Worked on **Docker/Kubernetes** Containerization of cloud based applications.
* Written **Chef Cookbooks** for various DB configurations to modularize and optimize end product configuration, converting production support scripts to **Chef Recipes** and **AWS** server provisioning using Chef Recipes.
* Used Branching, Merging, Tagging and maintaining the version across the environments using **SCM** tools like **GIT** and **Subversion (SVN)** on Linux platforms.
* Experienced in using the **TeamCity**for deploying of the ASP.NET applications.
* Coding **Groovy**, domain class to handle the business logic.
* Good knowledge in **Bash, Perl, Python, Ruby scripting** on **Linux**.
* Built and maintained **Elastic Search Log stash, Kibana stack** to centrally collect logs that are used to monitor applications.
* Extensively worked on **Jenkins** for continuous integration and for End-to-End automation for all build and deployments.
* Good knowledge/exposure in **TOMCAT & APACHE.**
* Installing and Configuring **Bamboo** server and agents.
* Setting up **Bamboo** plans and jobs for the projects. Automated build and deployments using **Bamboo**.
* Installed, monitored and configured Applications in **Nginx** and **Apache Tomcat Server** and establish connectivity to databases and troubleshoot issues on the fly.
* Experienced in working with Ticketing & Tracking Tools like **JIRA, Clear Quest** and **TFS.**
* Good skills in **NOSQL databases Cassandra** and **MongoDB**.
* Worked on **Ant** and **Maven scripts** to automate the compilation, deployment and testing of Web and J2EE applications.

**Environment:**

SVN, Clear Case, Maven, ANT, Gradle, Jenkins, GIT, Chef, Web Sphere, Jira, JBoss Application Servers, Apache Tomcat, ELK, Agile/Scrum, SDLC, Bamboo, Windows, Docker, Nginx, Nagios, AWS EC-2, Route 53, S3, VPC, EMR, SQS, Auto scaling, ELB, Shell Scripts, Unix/ Linux environment.

**Core Logic, San Diego, CA August 2016 – Nov 2017**

**Sr. AWS-DevOps Engineer**

**Responsibilities:**

* 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 CloudFormation.
* Migration of Existing Application to **AWS cloud**. Created auto-scaling groups based on memory and CPU usage to handle excessive or underuse workload without needing manual interference.
* Involved in Automating Regular AWS tasks like snapshots creation using **Python scripts**.
* Created **elastic load-balancers (ELB)** for different applications to provide high performance of applications.
* Worked on Build servers using **AWS**, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (**ELBs**) in the defined virtual private connection.
* Building and Installing servers through **Azure** Resource Manager Templates or **Azure** Portal.
* Migrating an On-premises virtual machine to **Azure** Resource Manager Subscription with **Azure** Site Recovery.
* Designed **AWS Identity Access Management** policies for all relevant roles and groups at **Grainger**. Automated the assignment of these policies to users using comprehensive Terraform scripts.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with **Java, PHP, Node.js, Python, Ruby,** and **Docker** on familiar servers such as **Apache,** and **IIS.**
* Developed Dev/Test/Prod environments of different applications on AWS by provisioning **Kubernetes** clusters on EC2 instances using **Docker, Bash, Chef, and Terraform**.
* Created **Python scripts** to totally automate **AWS services**, which includes **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.**
* Virtualized the servers using the **Docker** for the test environments and dev-environments needs. And also configuration automation using Docker containers.
* Created build scripts using Maven, Ant, MSBuild in **Bamboo**. Integrated **Bamboo** with various notification tools like Email & IM.
* Written Ansible playbooks for deployments to various environments in **Bamboo**.
* Worked on Built a new **CI pipeline**. Testing and deployment automation with **Docker, Jenkins**, and **Puppet.**
* Managed a **PaaS** for deployments using **Docker, Ansible** and **Mesos** which reduced considerably deployment risks.
* Collaborated with development and Support teams to setup a Continuous Delivery environment with the use of **Docker**, continuous build and Delivery tools.
* Involved in AWS Cloud management and **Chef Automation**.
* Worked on bootstrapping the nodes, Developed multiple **Chef Cookbooks** from scratch.
* To achieve Continuous Delivery goal on high scalable environment, used **Docker** coupled with load-balancing tool **Nginx.**
* Deployed a **Bamboo** environment for continuous integration/builds. All builds output rpm packages and war files as artifacts.
* Worked on Deploying web applications using **Chef** by developing the Cookbook. Also responsible for creating and importing all the environments required to run the project.
* Worked on Installing Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks and uploaded them to Chef-server, Managed On-site OS/Applications/Services/ Packages using **Chef** as well as AWS for EC2/S3&ELB with Chef Cookbooks.
* Developed ANT Build scripts to run Sanity Test scripts developed in **Selenium** WebDriver.
* Performed PowerShell scripting to build code through **MSBuild,** as well as running integration tests and smoke tests.
* Installed and configured **Netcool** products and components to integrate them with the customer's Network Management, Operations Support, and Business Support Systems.
* Solid understanding of Project Life Cycle Management and strong experience on working of **Agile Methodologies**.
* Transitioned source control from **TFS** to **Gitlab**, TFS Build to Jenkins/MSBuild, and interfaced new build process to Sonarqube.
* Drove quality improvements by addressing issues flagged by Sonarqube.
* Good understanding on **Agile tools Rally, tracking status** and **setting up velocities** for the projects.
* Deployed and monitored scalable infrastructure on **Amazon Web Services (AWS)** & configuration management using **Puppet.**
* Implemented Continuous Integration and Continuous Deployment using **Jenkins** with build tools **Maven, Ant** and **Gradle.**
* Implemented automation with **Vagrant, Chef** on **AWS** for application testing, deployment, and development. Prepared documentation describing the configuration state of each item that was under CM control.
* High exposure to **REMEDY, BUGZILLA** and **JIRA** defect tracking tools for tracking defects and changes for change management.

**Environment:**

Ubuntu, Linux, Jenkins, Mesos, Chef, Puppet, Ansible, Svn, Bamboo, GIT, AWS, Docker, Bash, Shell, Tomcat and Apache, Vagrant, Gradle.

**SYMANTEC, Mountain View, California Jan 2016 - August 2016**

**Build and Release Engineer**

**Responsibilities:**

* Worked in team environment to automate the deployments using scripts which execute the automated
* **CI** and **release management process**. Created a reusable deploy distribution for the system which can be ported to multiple environments Without having the need to run separate builds.
* Version control system Team Foundation server is used for Source code management and integrated to AnthillPro to build the artifacts.
* Automate Deployment on Open stack as well as artifact repository manager Artifactory, using configuration Management tool like **Chef**.
* Developed **Chef Cookbooks, Recipes, Resources** and **Run lists**, managing the **Chef Client nodes**, and upload the cookbooks to **chef-server** from Workstation
* Provisionary and Providers of **Vagrant** are used as building blocks to manage the development environments.
* Implemented Continuous Delivery framework using AnthillPro**, Chef, Ms Build &Artifactory** in MS windows server environment.
* Wrote **Bash/Shell scripts, python scripts** for managing day-to-day transactions & automation of routine tasks.
* Developed **Windows Power Shell script** to automate setting of user credentials and activation of Windows Helping the Project team to get transformed to **Scrum methodology** using **TFS (Team foundation server)**. **Bugzilla** is used for tracking bugs and raised tickets to get resolved.

**Environment:**

Open Stack, Power Shell 2.0, Chef10.9.12, AnthillPro 3.7, MS Build, Vagrant 2010, Team Foundation Server (TFS) 2010, Perl, Java SE 6, Junit, Artifactory, Bugzilla, Web Sphere, Tomcat, python scripts, MS Windows server 2008R2

**Erie Insurance Group, PA Jun 2014 – Dec 2015**

**Build and Release Engineer**

**Responsibilities:**

* Provided technical guidance to business analysts, gather the requirements and convert them into technical specifications for developers to start
* Prepared technical artifacts including **UML Class diagrams, Sequence diagrams etc.,** using Rational Rose.
* Dynamic web pages are developed using JSP**, JavaBeans, XHtml, JavaScript** and **Custom Tags.**
* Configured Struts, spring and JDBC to map the business objects to **MySQL** and **Oracle Database** using **XML configuration file**.
* Worked on Administration, maintenance and support **of Red Hat Enterprise Linux (RHEL) servers**.
* Implemented Hibernate as an **ORM** tool for OR mappings and configured hibernate, cfg, xml and hibernate.hbm.xml files to create the connection pool and setup required environment to map the tables and classes with **Oracle** **RDBMS**.
* Managed Informatica Power Center v7.1 and 8.5 servers.
* Involved in monitoring Informatica session and workflow logs and recommends process improvements.
* Export/Import Informatica objects such as mappings, sessions and workflows between repositories.
* Created branches, performed merges in version control systems **SVN** and **Perforce**.
* Managed user authentication and authorization for the users in both Subversion & Perforce.
* Created and maintained **Ant build.xmls** and **Maven Pom.xmls** for performing the builds.
* Managed **Nexus** repository for the current project, created a new repository and provisioned it.
* Integrated Code Quality Tools like **Cobertura, Find bugs, Check Style,** and **PMD** in the build scripts.
* Installed **Sonar** and managed it as a Code Quality Analysis tool to track the trending.
* Used Hudson as a **CI** tool for performing the build automation.
* Used **Hudson/Jenkins** for automating Builds and Automating Deployments.
* Used various plug-ins to extend the base functionality of **Hudson/Jenkins** to deploy, integrate tests and display reports.

**Environment:**

SVN, Perforce, ANT, Maven, Hudson/Jenkins, Web Sphere, Fisheye.

**Siri Info Solutions Inc, India Nov 2012 – May 2014**

**Build and Release Engineer**

**Responsibilities:**

* Provided **CM** and **Build support** for more than 5 different applications, built and deployed to the production and lower environment.
* Defined and Implemented **CM** and Release **Management Processes, Policies** and **Procedures**.   
  Maintained build related scripts developed in **ANT, Python** and **shell.**
* Modified build configuration files including **Ant build.xml.**
* Worked with development team to migrate **Ant scripts** to **Maven.**
* Experienced in authoring **pom.xml files**, performing releases with the **Maven** release plug-in,
* Mavenization of **Java projects** and managing **Maven repositories**.
* Researched and implemented code coverage and unit test plug-ins with **Maven/Jenkins**.
* Participated in the release cycle of the product which involves environments like **Development, QA, UAT** and **production.**
* Responsible for the build and release management process, automated build scripts and resolve the build issues.
* Coordinating with development teams to perform builds and resolve build issues.
* Analyze and create daily reports on the status of server backups on intranet and extranet.
* Provide complete phone support to customers.
* Build artifacts are deployed into a Web logic app server by integrating the **WLST scripts** to **Shell Scripts**.
* Maintained configuration files for each application for build purpose and Installed on different environments.
* Worked with **DBAs** on installation of **RDBMS** database, restoration and log generation.
* Perform biweekly build cycle and testing processes on **Solaris**.
* Troubleshoot tickets on the helpdesk tracking system.
* Used **Maven** dependency management system to deploy snapshot and release artifacts to **Nexus** to share artifacts across projects.
* Configured and maintained Jenkins to implement the **CI** process and integrated the tool with **Ant** and **Maven** to schedule the builds.
* Work with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems.
* Worked on the Oracle databases in the backend to execute the **DMLs** and **DDLs.**

**Environment:**

ANT, Maven, SVN, Hudson, Web Logic, JSP, Anthill Pro, JIRA, RDBMS, Perforce, Perl Script, Shell Script, Linux, Java, J2EE, and EJB.

**Bulusu Info Tech, Hyderabad July 2010 – Oct 2012 Linux Systems Admin**

**Responsibilities:**

* Installation, upgrade and configuration of **Red Hat Linux** using the kick start installation and **SUSE**
* Updating **YUM** Repositories and **RPM**. Created virtual servers on VMware **ESX/ESXi** and installed operating system on Guest servers.
* Configuring and Maintained DNS **servers, Mail servers, FTP servers, NFS, NIS, RPM.**
* Developed **shell scripts** for automation purpose and Installing and configuring Apache and supporting them on **Linux** production servers.
* Monitoring servers using Nagios and writing custom plugins and Maintained **JIRA** for ticket tracking and work flow.
* Created File systems from local storage as well as **NFS** partitions for application portability.
* Troubleshooting Linux network, security related issues, capturing packets using tools such as **IPtables, firewall, TCP wrappers, NMAP.**
* Performed configuration of standard Linux and network protocols, such as **SMTP, DHCP, DNS, LDAP, NFS, SMTP, HTTP, SNMP** and others.
* Implemented **LVMs** and Raid level concepts in the production environment to the existing Linux systems.
* Involved in hardening, **Linux Server** and Compiling, Building and installing **Apache Server** from sources with minimum modules.
* Administration of **UNIX** servers like **AIX** and **Sun Solaris** in both test and production environment and applied patches
* Build and Deployment of the **Linux** hardware Nodes to host several **KVM** templates.
* Created RPM packages using the **RPMBUILD** and checking the new build packages.
* Maintained user's data backup by creating user folder in file server and applying security permission on folders
* Responsible for configuring and connection to **SSH** through SSH clients like **Putty** and **Cyber duck**.
* Created and modified user, groups with **SUDO** permission.

**Environment:** VMware ESX/ESXi, DNS, FTP, NFS, NIS, RPM, Nagios, JIRA, Linux, UNIX, Sun Solaris, AIX, Putty.