**PAVANKUMAR GONGADI**

**SUMMARY:**

* Over 9 years of experience as a DevOps Engineer in Configuration Management, Continuous Integration, Continuous Deployment, Release Management and Cloud Implementations.
* Experience in working as Engineer for release automation to achieve continuous integration and continuous delivery (CI and CD).
* In depth understanding of the principles and best practices of software configuration management (SCM) in Agile, Scrum and Waterfall methodologies.
* Used GIT as version control system, Managing GIT and SVN which includes creating new users and writing some pre-commit and post commit scripts.
* Working knowledge of branching and merging code lines in GIT and resolved all the conflicts raised during merges.
* Extensive experience in using MAVEN, Gradle and ANT as build tools for building of deployable artifacts (jar, war & ear) from source code.
* Designed and created multiple deployment strategies using CI/CD Pipelines using Jenkins.
* Configured and administered Jenkins for automated builds, Responsible for installing Jenkins master and slave nodes.
* Experience in Designing, Installing and Implementing Ansible configuration management system and in writing playbooks for Ansible and deploying applications.
* Worked with Puppet Modules to manage configurations and automate installation process and developed automation scripting in Python using Puppet to deploy and manage Java applications across Linux servers.
* Familiar with designing and deploying container-based production clusters using Docker.
* Experienced with Docker container service. Creating Docker files, Docker Images & Containers.
* Experience with container-based deployments using Docker, working with Docker images, Docker hub and Docker registries, installation, configuring Kubernetes, and clustering them.
* Implemented Kubernetes to deploy scale, load balance, scale and manage docker containers with multiple names spaced versions.
* Implemented a production ready, load balanced, highly available, and fault tolerant Kubernetes infrastructure.
* Support and enhance SDLC cycle by using Docker containers delivered to OpenShift Container Platform
* Hands-on experience in cloud OpenShift Container Platform & Automating the OpenShift cluster installation using Ansible playbooks.
* Extensively worked on Jenkins, Docker for continuous integration and for End-to-End automation for all build and deployment.
* Experience with using cloud automation tool like terraform.
* Hands on experience on Terraform a tool for building, changing, and versioning infrastructure safely and efficiently.
* Expertise in automating builds and deployment process using Bash, Python and Shell scripts.
* Expert in various Azure services like Compute (Web Roles, Worker Roles), Caching, Azure SQL, ARM (Azure resource manager), NoSQL, Storage, and Network services, Azure Active Directory (AD), API Management, Scheduling, Azure Auto scaling, and PowerShell Automation.
* Experienced in configuring Cloud platform such as Virtual Networks Multi-site, Cross-site, VMs, Azure AD, Load Balancers, Azure SQL, Cloud Services, etc.
* Experienced in Pivotal Cloud Foundry (PCF) on Azure VM’s to manage the containers created by PCF. Used Docker for deployment containers and push the code to Azure Cloud.
* Created the Azure storage accounts, VNET's, Subnets, assigned the public IP, Altered the security groups, NIC's and Azure VM's for internal applications using Ansible playbooks.
* Ability in managing all aspects of the software configuration management process including code compilation, packaging / deployment / release methodology and application configuration.
* Excellent experience in designing, documenting and automating the build and release process.

**EDUCATIONAL QUALIFICATION**:

Masters in information technology from Nova southeastern University, 2017

Bachelors in Electronics and Communication Engineering from JNTUH 2014

**PROFESSIONAL EXPERIENCE:**

**UPS, Maryland Apr 2020 – Till date**

**DevOps Engineer**

**Responsibilities:**

* Experience in using GIT as Distributed Version Control System and repository management.
* Installed and configured GIT to implement branching strategy which is suitable for agile development also provided continuous support and maintenance of software builds.
* Developed and maintained automated CI/CD pipelines for code deployment using Jenkins.
* Created Jenkins Pipeline involving several Downstream/Upstream Job Configurations based on dependencies from other applications & based on Release methodologies.
* Responsible for taking the source code and compiling using Maven and package it in its distributable format, such as jar & war file.
* Administrating and supporting company's Azure kubernetes infrastructure, ensuring it is secure, resilient and performance and responsible for complete DevOps activities
* Setting up the complete Kubernetes Dev Environment from scratch to deploy latest tools which is related to Deep learning and machine learning using helm charts on premises BareMetal for different teams.
* Configured V-net integration, Active directory, Encryption and security on Azure using ARM templates and PowerShell scripts.
* Preferable Azure by creating multilevel hybrid pipeline of CI & CD helped clients to achieve kubernetes platform.
* Developed PowerShell scripts and ARM templates to automate the provisioning and deployment process.
* Experience in Designing, Installing and Implementing Ansible configuration management system and in writing playbooks for Ansible and deploying applications.
* Maintained a high availability clustered and standalone server environments and refined automation components with scripting and configuration management using Ansible.
* Automated various infrastructure activities like Continuous Deployment, application server setup, stack monitoring using Ansible playbooks.
* Focused on containerization and immutable infrastructure. Docker has been core to this experience, along with Kubernetes. Experienced in deploying spring boot applications.
* Worked on container support for cloud environments and Docker. Deployed the applications in Docker containers and managed the containers in enterprise level.
* Worked with Docker components like Docker engine, hub, compose and registry for storing docker images and files running multiple containers in staging and production environments.
* Support and enhance SDLC cycle by using Docker containers delivered to OpenShift Container Platform.
* Hands-on experience in cloud OpenShift Container Platform & Automating the OpenShift cluster installation using Ansible playbooks.
* Deployed OpenShift Enterprise on RedHat 7 environment and integrated with private Docker Registry
* Experience in using Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Experience with using cloud automation tool like Terraform.
* Strong hands-on experience with Terraform to provision Infrastructure in Azure.
* Highly proficient in Terraform, such as ability to write modules from scratch & experience using Terraform to provision infrastructure from code.
* Implemented cluster services using Docker and Azure Kubernetes services (AKS) to manage local deployments in Kubernetes by building a self-hosted Kubernetes cluster using Jenkins CI/CD pipeline.
* Integrated Jenkins with Docker container using Cloud Bees Docker pipeline plugin to drive all microservices builds out to the Docker Registry and then deployed to Kubernetes. Integrated Selenium automation regression test suite in Jenkins build pipeline Experience in Python programming for deployment of Java applications and implementation and automation of Shell scripts for release and build automation.
* Experience in build and deployment automation using Azure, Docker, Kubernetes containers and Ansible.

**Environment:**  GIT, Jenkins, Java/J2EE, Maven, Ansible, WebLogic, OpenShift, Azure, SQL, SCM,Apache Web Server, Tomcat, Terraform, Docker, Kubernetes, EFK,Python,Linux, RHEL, Shell scripting.

**Intel, Arizona May 2018 – Feb 2020**

**DevOps Engineer**

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**Responsibilities:**

* Experience in Software Integration, Configuration, building, automating, managing and releasing code from one environment to another environment and deploying to servers.
* Involved in supporting cloud instances running Linux and Windows on Azure, experience with Security Groups and Virtual Private Cloud in Azure.
* Worked on GIT repositories as Distributed Version Control System.
* Installed and configured GIT to implement branching strategy which is suitable for agile development also provided continuous support and maintenance of software builds.
* Responsible for taking the source code and compiling using Maven and package it in its distributable format, such as jar&war file.
* Maintained build related scripts developed in shell for Maven builds. Created and modified build configuration files including POM.xml.
* Extensively worked on Jenkins CI/CD pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the Jenkins build process.
* Implemented Jenkins Code Deploy plugin to deploy to AWS and used to automate the build process and deploy the application to Tomcat server.
* Used Chef for configuration management of hosted Instances within AWS, Configuring and Networking of Virtual Private Cloud (VPC).
* Worked with Puppet Modules to manage configurations and automate installation process and developed automation scripting in Python using Puppet to deploy and manage Java applications across Linux servers.
* Experience in Python programming for deployment of Java applications and automation of Shell scripts for release and build automation.
* Responsible for build and deployment automation using AWS, Docker & Kubernetes containers.
* Focused on containerization and immutable infrastructure. Docker has been core to this experience, along with Kubernetes. Experience in spring boot applications.
* Worked on container support for cloud environments and Docker. Deployed the applications in Docker containers and managed the containers in enterprise level.
* Configured Docker container for branching purposes and Implemented Docker automation solution for Continuous Integration / Continuous Delivery model.
* Created users, roles and groups using Identity Access Management (IAM) and attached the required policies.
* Install and configure Terraform to provision AWS resources.
* Experience in writing Terraform Templates to build infrastructure on AWS.
* AWS Infrastructure setup, building Java applications, and deploying to on-prem and AWS environment using Terraform.
* Work with application teams to understand the infrastructure requirements and translate into Terraform code for deployments.
* Installed and configured the ELK monitoring stack for tracing the logs and maintained the code quality by using SonarQube.
* Involved in setting up JIRA as defect tracking system and configured various workflows, customizations and plugins for the JIRA bug/issue tracker.
* scripting of administration tasks using CLI, Power Shell, Shell and Ruby. Built upstream and downstream jobs in Jenkins to build and deploy onto different environments.
* Performed Branching, Tagging, Release Activities on Version Control Tool GIT (GitHub).

**Environment:** Java/J2EE, ANT, Maven, Gradle,SVN, Chef, Ansible, Puppet, Linux, SCM, GIT, Jenkins, Tomcat, Jira, AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53), SQL, ELB, Cloud watch,ELK, Cloud Formation, Terraform, Docker, Kubernetes, Python,RHEL, Shell scripting.

**Capital one, New Jersey June 2017–Apr 2018**

**Build and Release Engineer**

**Responsibilities:**

* Build and deployments of java applications in pre-production and production environments.
* Worked on variety of Linux platforms (Ubuntu, Red hat) which includes installation, configuring and maintenance of applications on this environment.
* Worked on GIT repositories as Distributed Version Control System.
* Created release branches in GIT by GIT Administration including branching, reporting and assisting with project and end user support.
* Built end to end CI/CD Pipelines in Jenkins to retrieve code, compile applications, perform tests and push build artifacts to Nexus.
* Created Jenkins Pipeline involving several Downstream/Upstream Job Configurations based on dependencies from other applications & based on Release methodologies.
* Developed build and deployment scripts using MAVEN as build tools in Jenkins to move from one environment to other environments.
* Integrated Jenkins with different code quality analysis and Review tools like SonarQube.
* Written wrapper scripts to automate deployment of cookbooks on nodes and running the chef client on them in a Chef-Solo environment and converted production support scripts to chef recipes.
* Used Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Worked on creation of Docker containers and Docker consoles for managing the application life cycle
* Worked on Docker container snapshots, attaching to a running container, removing images, managing directory structures and managing containers in oracle cloud.
* Implemented a production ready, load balanced, highly available, fault tolerant Kubernetes infrastructure.
* Worked on Kubernetes to manage containerized applications using its nodes, ConfigMaps, selector services and deployed application containers as Pods.
* Managed Clusters using Kubernetes and worked on creating many pods, replication controllers, services, deployments, labels, health checks.
* Testing the state of different services using Nagios Monitoring tool.
* Managed Product Backlog and tracked bugs using JIRA.
* Automated the cloud deployments using chef, python.
* Troubleshooted Build and Deployment Issues, with little downtime.

**Environment:**Ant, Maven, Jenkins, Ansible, Puppet, Python, Jira, GIT, SVN, LDAP, Tomcat, Jira, RHEL, Docker, Kubernetes, Puppet, Apache Web Server, Tomcat.

**Kensium Solutions, Hyderabad July 2014– Aug 2015**

**Build and Release Engineer**

**Responsibilities:**

* Responsible for streamlining the build, deployment and release of technology for commercial cards enterprise system using scripting, SVN, and Java technologies, architecture, and design framework.
* Migrating a production infrastructure into an Amazon Web Services utilizing AWS Cloud Formation, Code Deploy, EBS, and Ops Works.
* Expertise in Amazon AWS Cloud Administration which includes services: EC2, S3, EBS, VPC, ELB, Route 53, Auto scaling, Security Groups, Redshift, and Cloud Formation.
* Installed the application on AWS EC2 AMI Instances and configured the storage on S3 Buckets.
* Also have hands on experience on working with AWS IAM to create new accounts, roles and groups.
* Maintained and administered GIT source code tool, Created Branches, Labels and performed merges in Stash and GIT.
* Involved in migration from SVN to GIT repos and worked with Linux sys admins for the same.
* Working experience on chef in Production environment over several servers. Working on version control system like GIT.
* Designed and created multiple deployment strategies using CI/CD Pipelines using Jenkins. Installed multiple plugins to Jenkins, Configured Proxy to get auto updates.
* Developed build and deployment scripts using MAVEN as build tools in Jenkins to move from one environment to other environments.
* Worked with various custom resources, created roles & environments and using chef handlers for various auto kickoff requirement jobs.
* Deploy and monitor scalable infrastructure on AWS & configuration management using Chef.
* Managed Chef Cookbooks with Chef Roles. Used file module in Chef Cookbooks to copy and remove files on remote systems.
* Configuring the Docker containers and creating Docker files for different environments.
* Containerized the Docker services like SSH daemon service and familiar with several Docker command line utilities.
* Primarily used Ruby for chef cookbooks, shell scripting to code tasks that connect various AWS resources.
* Developed processes, tools, automation for Jenkins based software for build system and delivering SW Builds, Managed build results in Jenkins and deployed using workflows.
* Installed and configured Jenkins for Automating Deployments and providing an automation solution.
* Worked on Puppet Modules to manage configurations and automate installation process.
* Automated the apache installation and its components using Puppet.
* Created and updated Puppet manifests and modules, files, and packages stored in the GIT repository.
* Enhanced Configuration Management using Puppet to assist automated, repeatable configurations and application deployments.
* Coordinated with various cross functional teams across IT operations to make sure smooth functioning of projects.

**Environment:**Jenkins, GIT, ANT, MAVEN, JIRA, Chef, Python, AWS, VPC, EC2, S3, IAM, EBS, Lambda, JAVA/J2EE, Web Sphere, Puppet, Unix/Linux, Windows, Ruby, Perl, Shell, Apache Tomcat, XML, Java/J2EE.