Manasa K

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 SUMMARY

Over 8 Years of Experience within the regions of DevOps/Cloud Administrations, Planning and executing CI/CD pipelines utilizing most recent apparatuses & advances such as AWS, Ansible, Chef, Docker, Jenkins, GIT, Kubernetes and Terraform. Experience in designing the Software Source Code repository, Product Development, Process Automation, Build and Deployment Automation, Release Management, Packaging Quality Control, & Environment management.

 SPECIALITIES

DevOps Methodologies & Tools

* Experience with DevOps methodologies and cloud infrastructure automation tools supporting server/VM provisioning activities, middleware installation and deployment activities via AWS, Chef, Ansible, Jenkins, Docker, Kubernetes, Terraform.
* Experience in administering Linux. Experience in Installation, Configuration, Backup, Recovery, Maintenance, and support
* Configuration Management and source code repository management using tools like GIT, GITHIUB and Subversion (SVN) and experience in migrating source code repositories between various version control systems like SVN to Git.
* Worked on build tools like Maven and Gradle and written build scripts from scratch for new projects and for new modules within existing projects.
* Automated webserver content deployments via shell, python scripts and YML scripts
* Expertise in Enterprise repository management tools like Nexus, JFrog Artifactory.
* Deployed Applications into Prod &Pre-Prod environments with various Application server technologies like WebLogic, JBoss, & Apache Tomcat.
* Used Ansible Playbooks to automate various deployment tasks and have strong knowledge on Ansible Roles, inventory, Ansible Tower concepts.
* Used Ansible Control server to deploy playbooks to the machines and systems in the inventory.
* Automated the cloud deployments using chef, ansible, python and AWS Cloud Formation Templates.
* Hands on Experience for setting up an Infrastructure from the Scratch for Deployments by writing CFT for AWS cloud and terraform.
* Experience in Designing and deploying AWS solutions using EC2, S3, RDS, EBS, ELB, Auto scaling groups.
* Knowledge in using Microsoft Azure including Azure CLI, Management
* Deployed Docker Engines in Virtualized Platforms for containerization of multiple apps.
* Experience working on Docker hub, Docker Compose, creating Docker images and handling multiple images primarily for middleware installations and domain configuration.
* Good Exposure on Container Orchestration tool Kubernetes and Docker Swarm

TECHNICAL SKILLS

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| --- | --- |
| CI/CD Tools | Jenkins |
| Application Servers | WebLogic, Apache Tomcat, Web sphere, JBoss. |
| Cloud Services | AWS, Azure |
| Virtualization Platforms | Virtual Box, VMWare. |
| Configuration Management | Chef, Ansible. |
| Operating Systems | UNIX, Linux, Windows, MacOS. |
| Build Systems | Ant, Maven, Gradle. |
| Databases | MySQL, MongoDB, Oracle, SQL Server. |
| Version Control | Git, SVN, GITHUB, BITBUCKET, GITLAB |
| Quality Management Tool | SonarQube. |
| Monitoring Tools |  Splunk, CloudWatch, Dynatrace, Grafana. |
| Scripting Languages | Shell Scripting, Python, YAML, Bash, Ruby, Groovy, PowerShell, JavaScript. |
| Containerization and Orchestration Tools | Docker, Docker Swarm, Kubernetes. |
| Deployment Tool | Urban code Deploy. |
| Testing Tool | Cucumber. |
| Source Code Analysis | Fortify |

PROFESSIONAL EXPERIENCE

FiServ – Frisco, TX

Cloud DevOps Engineer June 2021 – Present

Responsibilities:

* Design, Plan and create Azure virtual machines, Implement, and manage virtual networking within Azure and connect to on-premises environments.
* Implemented high availability with Azure Classic and Azure Resource Manager deployment models.
* Used the Azure DevOps Build Pipelines, Release pipelines, Repos (TFVC and Git), variable groups, task groups etc. to automate the build and deployment of Internal apps.
* Worked on building Azure environments by deploying Azure IaaS Virtual machines (VMs) and Cloud services (PaaS).
* Worked on implementing the Fortify scans for Security Vulnerabilities and implemented SonarQube for code quality analysis.
* Implemented Disaster management for creating Elasticsearch clusters in two DC and configure Logstash to send same data to two clusters from Kafka.
* Developed Ansible roles to maintain the large play books easily.
* Created automated build and release environment using CI/CD Tools like Jenkins and Ansible.
* Worked on Migrating Services from On-premises to Azure Cloud Environments. Collaborated with development and QA teams to maintain high-quality deployment.
* Worked on Configuring Azure Traffic Manager to build routing for user traffic Infrastructure Migrations: Drive Operational efforts to migrate all legacy services to a fully Virtualized Infrastructure.
* Worked on Creating Environment with both PowerShell and Arm Templates together. Migrated current Data center environment using Azure Site Recovery (ASR).
* Worked on Building software packages on Red Hat Linux (RPM) and Solaris (DataStream package format)
* Automated continuous integration process with zero manual intervention by integrating Bitbucket, Maven, Jenkins and pushing the build artifacts to JFrog and Nexus.
* Experienced in Kubernetes based container deployments to create self-environments for dev teams and containerization of environments delivery for releases.
* Container management using Docker by writing Docker files and set up the automated build on Docker HUB and installed and configured Kubernetes.
* Extensively worked on monitoring servers using **Datadog, Cloud watch and**using**ELK Stack, Elastic Search.**
* Worked on source control management with GitHub and GitLab Enterprise level repositories, involved in regular activities include configure user’s access levels, monitor logs, identifying merge conflicts and managing master repository.
* Worked on Creating and maintaining automation test suite using Cucumber and Night watch.
* Developed the build & deployment scripts using MAVEN to Automate the process using plugins available Jenkins and move from one environment to other throughout the build pipeline.
* Worked on Designing and implementation of automated deployments using Urban code Deploy to manage major releases, monthly release and patches form development, integration and QA, Val, stager Environments.

Environment: Jenkins (CI/CD), Ansible, Azure, Groovy,Tomcat servers, Docker, Kubernetes, Microservices, Datadog, Kafka

OBXtek ,McLean, VA

Cloud DevOps Engineer July 2018 – May 2021

 Responsibilities:

* Used Docker and Kubernetes to manage micro services for development of continuous integration and continuous delivery.
* Experience with container-based deployments using Docker, working with Docker images, Docker hub and Docker registries, installation and configuring Kubernetes and clustering them.
* Experience with Cloud automation technologies such as Cloud Formation and Terraform and experienced in using Terraform for building, changing, and manage existing and cloud infrastructure as well as custom in-house solutions. Proficient in writing Templates for AWS IAC using Terraform to build staging and production environments.
* Created CFT and Terraform scripts to automate deployment and configuration of various data lake components on AWS such as Cassandra clusters, Couchbase on EKS, Airflow, Glue, AWS RDS, Redshift, EMR, Tableau and SAS on RHEL with stripped volume at RHEL.
* Developed data ingestion modules (both real time and batch data load) to data into various layers in S3, Redshift and Snowflake using AWS Kinesis, AWS Glue, AWS Lambda and AWS Step Functions
* Created functions and assigned roles in AWS Lambda to run python scripts, and AWS Lambda using java to perform event driven processing.
* Used IAM to create new accounts, roles and groups and polices and developed critical modules like generating amazon resource numbers and integration points with S3, Dynamo DB, RDS, Lambda and SQS Queue.
* Worked on building microservices and deploying them into Kubernetes cluster as well as Docker Swarm
* Implemented AWS solutions using EC2, S3, Aws Lambda, Groovy,RDS, IAM (Identity and Access management), Route 53, Elasticsearch, Cloud front, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances using API Gateway.
* Expertise in integrating Terraform with Ansible, Packer to create and version the AWS Infrastructure, designing, automating, implementing and sustainment of Amazon machine images (AMI) across the AWS Cloud environment.
* Worked on Configuring AWS EC2 Instances using AMIs and launched instances.
* Setup and build AWS infrastructure various resources, VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Worked on Creating S3 buckets for object storage and used lifecycle management for archiving purpose.
* Experience working with version control systems like GIT, and used Source code management tools GitHub, GitLab, Bitbucket including command line applications.
* Configured to Pull source code from a GitHub repository and configured Jenkins to build and deploy the code to Staging slot before it is pushed to production.
* Worked on Implementing the new cluster configuration with node pools, cross region implementation and migrated existing applications to new AKS infrastructure.
* Worked on build phase and deployment phase using Ansible Playbook triggered the jobs using Jenkins to deploy code in Tomcat Servers.
* Used Maven Dependency Management system to deploy the snapshots and release versions of code to the Nexus repository.

Environment: Jenkins, Ansible, Cloud formation,Groovy, Nexus Artifactory, YAML scripts, Dynatrace, Splunk, IntelliJ IDEA, Performance Testing, Bitbucket, Maven

Dept of Labor - Washington, D.C Jan 2016 – June 2018

AWS DevOps Engineer

 Responsibilities:

* Expertise in working with Version control systems like Git and Subversion.
* Built deployment pipelines using Jenkins as a frontend for continuous deployment to local staging and test environments and to production environments on demand and experience in configuring the security and Pipeline jobs in Jenkins.
* Primary responsibilities include Build and Deployment of the java applications into different environments like Dev, QA, and PROD.
* Responsible in deploying the application JARs, WARs, EARs, in Tomcat servers and troubleshoot any deployment issue.
* Experience in Implementing and Administering the Monitoring tool Splunk, Dynatrace, CloudWatch for monitoring and altering the logs.
* Good experience in analyzing the code quality using SonarQube during the build phase of the Jenkins.
* Configured and deployed various application servers like Tomcat using Ansible.
* Worked with Ansible playbooks for orchestration, provisioning, configuration management and application development.
* Experienced working with Ansible tower to create projects, inventory file and scheduling jobs.
* Developed Ansible roles to maintain the large playbooks easily.
* Installed application on AWS EC2 instances and configured the storage on S3 buckets.
* Launching Virtual Private Cloud (VPC), creating subnet in the VPC, launching EC2 instances, configuring and maintaining the route table, internet gateway within the VPC.
* Implemented VPC, Auto Scaling, S3, EBS, ELB, Cloud formation templates and cloud watch services from AWS.
* Managed and supported AWS Security related issues, such as IAM and S3 policies for user access.
* Experience working on several Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry.

Environment: Jenkins (CI/CD), Ansible, AWS, Groovy,Tomcat servers, Docker, YAML, Dynatrace, Splunk, Cloud Watch, VPC, Ansible Tower, SonarQube, S3, Maven, Eclipse IDE

Genems Systems Inc - Hyderabad, India. April 2015 – Aug 2015

DevOps Engineer

 Responsibilities:

* Involved in setting up baseline code in GIT, created branches managed parallel development and performed merges and code roll outs.
* Implemented Continuous Integration by integrating with different tools like Maven, GIT, SonarQube, Nexus with Jenkins.
* Deployed the java application into web application servers like Apache Tomcat.
* Implemented unit testing framework driven using JUnit and worked with various scripting languages like Shell and Python.
* Designed, Installed, and Implemented Ansible configuration management system.
* Configuration of ansible modules for AWS cloud deployment.
* Worked with Ansible playbooks for virtual and physical instance provisioning, configuration management, patching, and software deployment on AWS environments through automated tools, Ansible / custom pipeline.
* Launching Amazon EC2 Cloud Instances using AWS (Linux/ Ubuntu/RHEL) and configuring launched

 instances with respect to specific applications.

* Performed S3 buckets creation, policies and on the IAM role based polices and customizing the JSON.

 template.

* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud watch.
* Managed servers on the Amazon Web Services (AWS) platform instances using Ansible Configuration management
* Redesigned infrastructure for high availability using multiple AWS availability zones.

Environment: AWS, Ansible, Maven, GIT, Jenkins, Tomcat, Junit, Python, Shell scripting, Cloud Watch, Tomcat, SonarQube, Nexus

EDUCATION: Bachelor of Technology – Osmania University, India – 2015