**Dibya Sekhar Panda DevOps Kubernetes Engineer**

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**Professional Summary**

* Around 9.5 years of IT Professional experience in Configuration Management,Continuous Integration,Continuous Deployment/Delivery,Change/Build/ Release Management,Infra Automation,HA Production Cluster Support and Middleware with focus on DevOps tools,AWS and Google Cloud Architecture.
* Strong experience on DevOps essential tools like Chef, Puppet, Ansible,Docker,Kubernetes, GIT, Jenkins,Nexus,Sonarcube, Maven and Nagios.
* Professional experience in Kubernetes Administration includes Support for Production Cluster , Production Cluster Upgrade , Proactive Cluster Monitoring , Backup and Restoration of etcd Database , Retention Policies for etcd Database backups.
* Experience in working on AWS and its services like IAM, VPC, EC2, EBS, RDS, S3, ELB,Cloud Watch and experienced in using Cloud Formation and Terraform.
* Experienced with principles and best practices of Software Configuration Management (SCM) in Agile, scrum, and Waterfall methodologies.
* Experience in Continuous Integration (CI) setup. Installed Jenkins, created build jobs, set up distributed builds using Jenkins master/slave concepts,Pipelines, plug-in installation,backup using Jenkins.
* Created infrastructure in a coded manner (infrastructure as code) using Terraform and Ansible for configuration management of virtual environments, and Vagrant for virtual machine and resource control.
* Experienced in using Build Automation scripting like MAVEN and ANT as build tools for building of deployable artifacts (JAR, WAR) from source code.
* Developed Maven Scripts to automate the build process. Managed the Maven Repository using Nexus tool and used the same to share the snapshots and releases of internal projects.
* Virtualized the servers using Docker for the test environments and dev-environments needs, also configured automation using Docker containers.
* Experience in creating DockerContainers leveraging existing Linux Containers and AMI's in addition to creating Docker Containers from scratch.
* Strong experience on branching, tagging, merging branches in Source Code Management tools includes SVN, Git/Github.
* Administering Jenkins and secured Jenkins with role based access controls and matrix based project access.
* Extensively worked on Jenkins by installing, configuring and maintaining for the purpose of continuous integration (CI) and for end to end automation for all build and deployments on Linux environment.
* Experience in automating, building, deploying, and releasing of code from one environment to other environment like Dev, QA,Staging and Production.
* Worked extensively with development teams, QA, deployment team and build and release to various environment and maintenance.
* Designed Docker files for creating Docker images and containers for different environments.
* Strong experience on using Ansible playbooks for Configuration Management, Continuous Application Deployment and Server provisioning.
* Experience writing Chef Cookbooks and recipes to automate the deployment process and to integrating Chef Cookbooks into Jenkins jobs for a continuous delivery framework.
* Experience configuring and managing Puppet Master server and also experience in updating and creating modules and pushing them to Puppet clients. Wrote Modules and Manifests manually and used Puppet Forge to download Modules as well.
* Experience in managing the artifacts generated by MAVEN in the Nexus/JFrog repository.
* Having knowledge on setting up and managing Docker private repository.
* Having experience in creating custom Docker Images using Docker file,Docker Networking, Docker Clustering using Swarm.
* Configured Environments like Prod,Dev,QA,UAT using DockerCompose.
* Experience in Installing, configuring and maintaining apache/tomcat Application Servers.
* Used HA proxy for load balancing the servers in cluster environments.
* Successfully installed and configured NAGIOS monitoring system to monitor the production server environment.
* Proficient in deploying the WAR and EAR Applications on target managed servers.
* Design roles and groups for users and resources using AWS Identity Access Management (IAM).
* Autoscaling of Web Application instances based on the Cloudwatch alarms during sudden increase in network traffic.
* Taking Encrypted Snapshots from the Encrypted volumes to create new volumes size.
* Deployed EC2 Instance, adding (EBS) block level storage volume to increase the availability of the website.
* Installed the application on AWS EC2 instances and also configured the storage on S3 buckets.
* Created the stack using Cloud Formation Template to launch multiple Instances.
* Created Virtual Machines by utilizing AWS EC2 and configured security groups to restrict Inbound and Outbound acess.
* Create, manage, and delete users and groups as per the request using Amazon Identity and Access Management.
* Created Virtual Private Cloud, Internet gateway, subnet and route tables using Amazon VPC.
* Experience writing Shell, Python scripts to automate the deployments.
* Created cron jobs for timely running of scripts.
* Handled all the aspects of Installation, Configuration, Troubleshooting, Load Balancing, Clustering, Deploying applications,Maintenance of Websphere Application Server versions 6/7.
* Involved in Configuring Websphere Application Servers in a Cluster environment solution for High Availability, Load balancing and Fail over support.
* Troubleshooting issues related to application slowness, struck threads and OutOfMemory.
* Provided 24/7 Production and non-Production support and coordinated with business.

**Education**

Master Of Computer Application,Utkal University

**Professional Experience**

Working as a DevOps Kubernetes Expert for Orange Business Services,Gurgaon Since January 2020.

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| Version Controlling Tool | Git,SVN,GitHub,GitLab |
| Virtualization | Vagrant,VMWare,VirtualBox |
| Build Tool | Ant,Maven |
| CI/CD | Jenkins,GitLab Runner |
| Containerization | Docker |
| Container Orchestration | Kubernetes,Docker Swarm |
| Infrastructure Provisioning | Terraform,Ansible,Chef,Puppet |
| Cloud | AWS,GCP |
| AWS Services | EC2,IAM.ELB,Auto Scaling,EBS,S3,VPC,RDS,Cloud Formation |
| Operating System | Windows Server-2008/2012,Amazon Linux,  Redhat-6/7,CentOS-6/7,Ubuntu-14.04/16.04/18.04 |
| Monitoring Tool | Nagios,Prometheus,Grafana,ELK |
| Artifact repository | Nexus,DockerHub,JFrog |
| Code Analysis | Sonarqube |
| Load Balancer | HA-Proxy,Nginx,Traefik |
| Scripting/Programming | Java,C,C++,VB,Python,Bash Script,YAML,DSL,Groovy |
| Database | MySQL,MariaDB,MongoDB |
| Middleware | WebSphere,Tomcat,Apache,IHS |
| Other Tools | Rundek,Hashicorp Vault,Velero,Packer,Rancher,Spinnaker |

**Technical Skills**

**Projects & Roles/Responsibilities**

**Orange Business Services**

**CAAS-CNP | January 2020 - Present**

**DevOps Kubernetes Expert**

* Providing Kubernetes Production support such as creating Namespaces to isolate the Applications from each other on the Production cluster and managing user rights over the namespaces using RBAC policy .
* Kubernetes Production support includes Persistent Volume , IAM and S3 Bucket creation.
* Involved in Production Cluster Upgradation activity from 1.18 to 1.20.
* Expert level knowledge on working with applications(Rundek and Hashicorp Vault) , deploying them on Kubernetes Production Cluster.
* Integrated Vault with Kubernetes to inject secrets.
* Providing On-Call support for Kubernetes Production Cluster.
* Involved in Monitoring Production Cluster Health during the tests performed by various Application Teams .
* Proactively looking into all P1/P2 alerts assigned to our queue on Production Cluster .
* Managing Backups and Backup of Backups for Kubernetes Production Cluster etcd Database .
* Restoring etcd backup on Lab cluster on Daily Basis.
* Publishing Daily Reports on Kubernetes Production Cluster includes Master,Ingress,API Server Health , Latest etcd Backups , Prometheus Monitoring Status, Cluster Resource Utilization with all Stakeholders.
* Applied Retention Policies over S3 Buckets inorder to delete the etcd Backup objects that are no longer needed after certain number of Days.
* Implemented Testing environment for kubernetes and Co-ordinated with clients and internal stakeholders to understand their requirements.
* Monitoring Kubernetes Production Cluster Proactively .
* Implemented CI/CD using Jenkins and the setup for Master slave architecture to improve the Performance of Jenkins.
* Managed Server configuration through Ansible Playbooks.
* Installed and configured HAProxy load balancer to route the traffic between application servers.
* Integrated Maven and Sonatype Nexus with Jenkins for the builds as the Continuous Integration Process.
* Automated the deployment of artifacts to various environments DEV, QA, UAT using Ansible Playbooks.
* Creating CI/CD pipelines by integrating Git, Maven, Jenkins, Ansible, Monitoring Tools and AWS (provisioning).
* Installed and configured Nexus repository manager for sharing artifacts between internal teams and created proxy Nexus repositories to speed up the build process.
* Creating alerts in Prometheus for monitoring the Production Cluster’s performance, CPU Utilization,disk usage etc.

**Network Element Management System | August 2017 – December 2019**

**DevOps Cloud Engineer**

* Responsible for installation & configuration of Jenkins to support various Java builds and Jenkins plugins to automate continuous builds and publishing Docker images to the Nexus repository.
* Created and modified build configuration files including POM.xml.
* Used Maven dependency management system to deploy snapshot and release artifacts to Nexus to share artifacts across projects and environments.
* Implemented Infrastructure automation through Ansible for auto provisioning, code deployments, software installation and configuration updates.
* Involved in Agile process, by-weekly Sprints and, daily Scrums to discuss the progress.
* Launching Amazon EC2 Cloud Instances using Amazon Web Services (CentOS/ Ubuntu) and Configuring launched instances with respect to specific applications.
* Created the stack using Cloud Formation Template to launch multiple Instances.
* Installed the application on AWS EC2 instances and also configured the storage on S3 buckets.
* Deployed EC2 Instance, adding (EBS) block level storage volume to increase the availability of the website.
* Expertise in designing the network layer, right from specifying the CIDR Ranges for the virtual private cloud in multiple regions to specifying the CIDR ranges for the subnets lying inside each VPC.
* Setting up the Elastic load balancer (ELB) to send traffic to all instance in the availability zone.
* Designed a security group for maintaining the inbound and outbound traffic.
* Setup of Virtual Private Networks across Departments with strong Network ACLs at both the Subnet and the Instance level.
* Autoscaling of Web Application instances based on the Cloudwatch alarms during sudden increase in network traffic.
* Design roles and groups for users and resources using AWS Identity Access Management (IAM).
* Merged release branches to the master after the production release and resolved the conflicts if any during the merge in GIT.
* Deploying and maintaining production environment using AWS EC2 instances with Docker.
* Container management using Docker by writing Dockerfiles and set up the automated build on Docker HUB.

**Internet Digital Marketing | March 2016 – July 2017**

**DevOps Engineer**

* Created Virtual Machines by utilizing AWS EC2 and configured security groups to restrict Inbound and Outbound acess.
* Created Virtual Private Cloud, Internet gateway, subnet and route tables using Amazon VPC**.**
* Expert in deploying the code to application servers like Apache Tomcat.
* Managed AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for SVN and Puppet.
* Created AMIs,Snapshots,Volumes and managed EBS Volumes.
* Created Elastic IPs, attaching and detaching to instaces as per client request.
* Configured the AutoScalling: Scale in and out using Autoscale, add and remove instances as needed to handle the growing workload.
* Experienced in deployment of applications on Apache Web server and Application Servers such as Tomcat.
* Create, manage, and delete users and groups as per the request using Amazon Identity and Access Management.
* Troubleshoot network connectivity using ping, netstat and ifconfig commands. Login to the remote system using sudo, putty, and telnet.
* Automated Linux production servers setup using Puppet scripts. Used these scripts to replicate production build environments on a local dev boxe using Vagrant and VirtualBox.
* Developed, built and deployed scripts using ANT as build tools in Jenkins to move from oneenvironment to other environments
* Experience working with Puppet Open Source. Installed, configured, upgraded andmanaged Puppet master and agents.
* Responsible for configuring and connection to SSH through SSH clients like Putty.
* User and Group administration tasks like adding, deleting, unlocking and password reset.
* Provide permissions to users, changed ownership on files and directories.
* Created cron jobs to do run the backup script every morning.
* Created BASH shell scripts to automate cron jobs and system maintenance. Scheduled cron jobs for job automation.
* Installed and Configured Red Hat Linux servers.
* Worked on more than 200 Linux servers to install and configure applications.
* Created Maven scripts to create multiple deployment profiles and deploy the applications to Apache Tomcat.
* Used Amazon Route53 to manage DNS zones globally & to give public DNS names to ELB's .
* Used IAM to assign roles, to create and manage AWS users, groups, and permissions to use AWS resources.

**Unilever| December 2014 – February 2016**

**Build & Release Automation Engineer**

* Setting up Chef Infrastructure, Bootstrapping nodes, creating and uploading recipes, node convergence in Chef SCM
* Setting up the chef repo, chef work stations and chef nodes
* Worked with data bags, attributes, cookbooks, recipes and templates in Chef
* Created and maintained continuous build and continuous integration environments in SCRUM and agile projects.
* Utilized Configuration Management Tool Chef & created Chef Cookbooks using recipes to automate system operations.
* Used MAVEN as a build tools on java projects for the development of build artifacts on the source code.
* Provide highly durable and available data by using S3 data store, versioning, lifecycle policies, and create AMIs for mission critical production servers for backup.
* Maintained the user accounts (IAM), RDS, Route 53, VPC, RDS,and SNS services in AWS cloud.
* Build servers using AWS, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
* Made backups of the directories and files using the tar, gzip, and gunzip tools.
* Wrote shellscripts for monitoring the systems and applications such as monitoring the processes in all the servers and also run cron jobs using cron .
* Created, modified and deleted users, groups and group memberships as per requirements.
* Installed and Configured Red Hat Linux servers.
* Installation, configuration and administration of Virtual Box and VMware virtual machine for Ubuntu Linux servers.
* Implemented a Continuous Delivery framework using Jenkins, Chef, Maven & Nexus in Linux environment.

**CCDM,HDFC Bank | May 2012– November 2014**

**Middleware Admin**

* Experience in Installation, Configuration of WebSphere Application Server 6.1/7.0/8.0.
* Involved in creating and configuring profiles, clusters, nodes, node agents for WebSphere Application Server.
* Implemented the Work Load Management using clustering.
* Created Clusters and instances in WebSphere Network Deployment to support high availability, fail over and implemented horizontal clustering.
* Involved in Installation of WebSphere Application Server ND.
* Involved in creating Horizontal Cluster.
* Federated Application Server on different boxes in different OS.
* Installation of IHS.
* Experience in integrating WebSphere Application Server and Deployment manager with IBM Http server.
* 24x7 on-call support on a rotation basis.
* Involved in deploying the applications both from the command line using wsadmin commands and from the admin console.
* Monitoring of Production Servers Logs.
* Documented all the issues related to Websphere in production environment.
* Maintenance of the local Apache and IBM HTTP web servers.
* Configured Web server plug-in to directing dynamic requests to application servers for loadbalance in clustered environment
* Performed controlled deployments of JAR,WAR, and EAR files between development and production environments in standalone.