Manish K

# PROFESSIONAL SUMMARY

* Sr. DevOps Engineer with 7+ years of experience in Software Configuration Management (SCM), optimizing deployments in AWS, Automation, Integration, design, and development of various use cases as per the business needs.
* Strong experience using various open-source technologies to ensure the best practices of DevOps methodologies.
* Hands on experience in configuration & Performance tuning, Patching, Installs, Upgrades, Problem Management, Patch Management, Incident Management, Change Management, Troubleshooting & OS Maintenance.
* Extensive experience in Jenkins, Bamboo, Run deck, Artifactory, Puppet, RabbitMQ, Git, GitHub, Oracle/Cassandra, Chef, Kafka, ELK, Dynatrace, Kibana, Logstash, Kubernetes, Docker, Service Now, Concourse, PCF, EC2, ECS, S3, Load balancer, Code Build, Code Deploy, Code Pipeline, SonarQube.
* Experienced creating Docker files, reducing the build time, cutting down the layers, creating multistage files and creating the Docker compose files.
* Creation of code build, code deploy and code pipeline via console and automation through terraform.
* Extensive experience in Branching, Merging, and Tagging in SCM tools like Git, GitHub, Gitlab and SVN.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform. Managed AWS infrastructure as code using Terraform.
* DevOps practice for Microservice and Docker based cluster using Kubernetes and spinnaker as Orchestrator on application development for cloud platforms using Spring boot, Micro services.
* Provisioning various AWS components and open-source technologies by Infrastructure as a code (Iac) using terraform, ansible, chef, cloud formation etc.
* Used monitoring tools like Splunk, Nagios, Configured, and Managed Monitoring Tools such as Nagios for Resources Monitoring/Network Monitoring/Log Trace Monitoring.
* Cost optimization for Aws services and build Serverless Architecture by using Lambda functions, STEP Function, Athena, Glue, S3, Cloud Watch and Cloud Metrics.
* Developed scripts for build, deployment, maintenance, and related tasks using Jenkins, Azure DevOps, and AWS Code Build, Code Deploy
* Played pivotal role in deploying the content cloud platform on Azure and AWS Cloud using Virtual Machines, App Service, EC2, S3, EBS, Cloud Front and Content Delivery Network.
* Created Cloud Formation templates to automate EC2 instances. Design user's credentials and profiles using AWS IAM.
* Experience with container-based deployments using Docker, working with Docker images, Docker hub and Docker registries.
* Implementing scripts with Power Shell for Run books. Implemented High level report using Power BI and SQL Azure from continuous web job Experience with Amazon web services (AWS) and virtualization-based technologies.
* Experienced in implementing and maintaining an Apache/Tomcat/MySQL/LDAP, XAMP web service environment.
* Experience supporting 24x7 production and providing on-call & weekend support.

## TECHNICAL SKILLS

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| **Operating Systems**  | Linux (Red Hat 4/5/6/7), Ubuntu 14/16/18, Windows NT 2000/2003, CentOS 6, 7, 8.  |
| **Application Servers**  | Oracle Web Logic (8/9/10), IBM Web Sphere (5/6/7), JBOSS, Apache Tomcat.  |
| **Web Servers**  | Apache Tomcat, Nginx, WebSphere, WebLogic, JBoss, Samba, SQL Server.  |
| **Cloud Environments**  | Microsoft Azure, Amazon Web Services (AWS), Open Stack, Oracle.  |
| **Automation Tools**  | Jenkins, Git Lab CI, Azure DevOps.  |
| **Version Control Tools**  | Git, GitHub, SVN, Bitbucket, Subversion.  |
| **Virtualization Platforms**  | VMware, VirtualBox, Citrix, Vagrant.  |
| **Networking Protocols**  | DNS, DHCP, FTP/TFTP, NFS, SMTP, TCP/IP, NIS, HTTP/HTTPS, WAN, LAN, Palo Alto, Cisco Routers/Switches.  |
| **Containerization Tools**  | Docker, Kubernetes, Docker Swarm, OpenShift, Azure Kubernetes Service, OpenShift.  |
| **Scripting**  | Python, Shell Scripting, Ruby, Groovy, YAML, Perl, C, C++, .NET, Java, Go.  |
| **Database**  | Dynamo DB, MySQL, RDBMS, NoSQL, Cassandra, PostgreSQL, Mongo DB, Oracle DB.  |
| **Repository Management**  | JFrog, Nexus, Artifactory.  |
| **Performance Monitoring & Bug Tracking Tools**  | Azure Monitor, CloudWatch, Splunk, Grafana, ELK, Nagios, Jira. VMware ESXI, Vagrant, Dynatrace.  |
| **Storage**  | Azure Storage, Azure Blob Storage, Azure Backup, Azure Storage Disks- Premium, Azure data lake storage Gen 1, AWS S3 Cloud Storage, AWS EBS, AWS Storage gateway, NetApp/EMC Storage, SAN.  |
| **Configuration** **Management tools**  | Chef, Ansible, Puppet, OpenShift  |

# PROFESSIONAL EXPERIENCE

 **Stanley Black and Decker, Mission, TX** (September 2023 – Present)

Senior DevOps Engineer

 **Responsibilities:**

* Creating CI/CD pipelines by integrating Git, GitHub, ant, Maven, Jenkins, Chef, and AWS (provisioning), Gerrit.
* Creating continuous deployment pipeline by creating component processes, Applications and adding environments into handling deployments using code pipeline and AWS code deployment for various deployment scenarios like Tomcat deployment, Multiple applications deployment.
* Working for DevOps Platform team responsible for specialization areas related to Chef for Cloud Automation.
* Hands-on experience on creating chef recipes and cookbooks to build CI/CD pipeline or configuration management and working knowledge of testing recipes using test kitchen suite, bookshelf, chefspec, etc. Good at working with vagrant for local setup while testing cookbooks.
* Ability to build and implement continuous integration (CI) and continuous deployment (CD) environments using tools such as Jenkins, Artifactory, Maven, and Gradle.
* Knowledge on Jenkins used for continuous integration and end-to-end automation for all build and deployments and also build out server automation with CI/CD tools.
* In the CI pipeline, mainly focused on performing integration of code quality analysis techniques like check styles, find bugs, Junit with CI tools like Jenkins, Maven and Gradle.
* Installed and configured configuration tool such as Chef Server / workstation and nodes via CLI tools to AWS nodes
* Collaborated with Development and Support teams to set up a CD (Continuous Delivery) environment with the use of Docker, continuous build, and delivery tools.
* Coordinating the resources by working closely with Project Manager for the release and Project Manager for all the Operational Projects.
* Implementing new projects builds framework using Jenkins & Maven as build framework tools.
* Worked on Cloud automation using AWS Cloud Formation templates.
* Developed automation framework for application deployments to the cloud environment.
* Worked with various AWS EC2 and S3 CLI tools.
* Worked on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, auto scaling to design cost effective, fault tolerant and highly available systems.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, Chef, and custom Ruby/Bash scripts.
* Managed and optimize the CI (Continuous Integration) tools like Jenkins.
* Install, Configure, Administer Hudson/Jenkins Continuous Integration Tool.
* Written Chef Cookbooks for various DB configurations to modularize and optimize end product configuration.
* Managed Virtual servers (Ubuntu Linux and Windows) on AWS EC2 using Open-Source Chef Server.
* Implementing and setting up Route 53 for AWS Web Instances & ELB & Cloud Front on AWS Environment
* Setup Chef Cookbooks to perform builds and deployment management.
* Automate Continuous Build and Deploy Scripts for Hudson/Jenkins Continuous Integration tool. Provide stable build environments for product development.
* Branching, Tagging, Release Activities on Version Control Tools: SVN, GIT.
* Develop Custom Scripts to monitor repositories, Server storage.
* Created monitors, alarms and notifications for EC2 hosts using Cloud watch.

 **Environment**: DevOps, Redhat (5.x), Elastic Search, EC2, ELB, S3, Cloud Watch, Cloud Formation, Chef, AWS, Jenkins, Maven, Ant, GIT, Docker, Wrecker, Apache, Nagios, MySQL, Logstash, Ruby, SVN, GIT, GitHub, ant, CLI, CI/CD, Maven, Gradle

 **Charter Communications, St. Louis, MO** (January 2023 – August 2023)

DevOps Engineer

**Responsibilities:**

* Worked with developers in establishing and applying appropriate branching, labelling / naming conventions using GIT source control.
* Dev, QA, and Production environment and manage their configurations.
* Demonstrate strong communication skills and collaborate with all participants in web development projects.
* Started from the setup to work on AWS for the roles and grouping through IAM, created inbound and outbound traffic control. Set up SNS, AWS backup through AWS direct connects.
* Created the different AWS resources by using Terraform as IAC.
* Worked with the development team to move the AMI's Amazon Machine Images into the S3, by allowing hosts on the ports.
* Monitored the cloud health of instances with Elastic Beanstalk for connection draining.
* Configured various cloud services EC2, ELB, Elastic IP, RDS, SNS.
* Configured CI/CD using GitHub, maven, NodeJS, Jenkins, SonarQube, on AWS.
* Created/Configured EC2 Instances in AWS and installed required packages.
* Created/configured RDS instances in AWS with Multi-AZ deployment.
* Created EBS volumes for EC2 instances and moved snapshots in a timely manner to S3 bucket using custom Shell script.

**Environment**: GIT, SVN, Ant, Jenkins, IAM, SNS, EC2, ELB, Maven, NodeJS, Jenkins, SonarQube, Chef, Puppet, Docker, Terraform, Tomcat, Confluence.

**PricewaterhouseCoopers LLP, India** (March 2020 – April 2022)

DevOps Engineer

 **Responsibilities:**

* Member of Foundry team, responsibility was to implement DevOps transformation by working with Agile teams.
* Scaling and management of Docker containers and Docker orchestration tool using Kubernetes.
* Automate build and deployment using Jenkins for different python applications.
* Modifying day 2 actions and creating custom resource actions for virtual machines in AWS cloud environment.
* Setting up Jenkins's master, adding the necessary plugins, and adding more slaves to support scalability and agility.
* Automated infrastructure provisioning on AWS using Terraform.
* Set up CI/CD pipelines for Microservices and integrated tools such as Maven, Bitbucket, SonarQube, Nexus, Docker, Slack for providing immediate feedback to DEV teams after code check-in.
* Setting up Kubernetes to create pods and deploy yaml file for python application and management of pods in OpenShift.
* Using Kubernetes for the run time environment of CI/CD to test and deploy applications
* Created nightly builds with integration to code quality tools such as SonarQube.
* Responsible for all backup, recovery, and upgrading of PostgreSQL databases. Monitoring databases to optimize database performance and diagnosing any issues. Conducted oracle production database analysis on a regular basis. Performed troubleshooting for LAN problems for individual client basic software.
* Created quality gates in the SonarQube dashboard and enforced in the pipelines to fail the builds when conditions not met.
* Developed scripts for build, deployment, maintenance, and related tasks using Jenkins, Maven, and Groovy.
* Dockerized app by creating Docker file and automated docker image creation, image push into docker registry.
* Managed Kubernetes charts using Helm, created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages.
* Monitoring Cluster Metrics using NetData, Prometheus

**Environment***:* EC2, S3, VPC, VRA, VRO, Terraform, Groovy, Maven, Jenkins, AWS, SonarQube, Jenkins, Bitbucket, NetData, Helm

**NEC corporation, India**  (August 2018 – February 2020)

DevOps Engineer with Linux admin

**Responsibilities:**

* Automating infrastructure management and configuration with Chef.
* Setting up the environment from individual developer environments through to production. Writing custom modules as per the client’s requirements.
* Debug existing automation code and test to confirm functionality.
* Create modules for deployment automation.
* Create documentation for Chef best practices to be used by developers as a guide to Chef Automation.
* Work directly with customers to ensure their deployments are secure, reliable and scalable.
* Installation of patches and packages using RPM and YUM in Red hat Linux
* Administered Linux servers for several functions including managing Apache/Tomcat Server, Mail Server, and MYSQL databases in both development and production.
* Expert in installing, configuring and maintaining Apache/Tomcat.
* Creating Mounting and Troubleshooting NFS files with different OS platforms.
* Linux kernel, memory upgrades and swaps area. Red Hat Linux kickstart installation.
* Capacity Planning, Infrastructure design and ordering systems.
* Attended team meetings, change control meetings to update installation progress, and for upcoming changes in the environment.
* Updated data inventory management package for Software and Hardware products.
* Worked with DBAs on the installation of RDBMS database, restoration and log generation.
* Bash shell scripts to automate routine activities.
* Monitored trouble ticket queue to attend user and system calls.
* Collaborated using Atlassian tools including Jira, Confluence and GIT.
* Provided 24\*7 on call production support and resolved tickets.
* Installed and configured MS SQL server and Oracle in Linux server.

**Environment**: AWS, RPM, YUM, Apache/Tomcat, RDBMS, Jira, GIT, Chef, Jenkins, Linux, Windows, Cognos BI and SQL server.
 **Telstra, India** (May 2016 – August 2018)

AWS Cloud Engineer

 **RESPONSIBILITIES:**

* Created and maintained functional pipelines on AWS platform using code commit, code build, code deploy and code pipeline
* Monitored and maintained functionality of pipelines both on AWS and on prem
* Created and maintained pipelines for microservices using Groovy scripts for Jenkins scripted pipelines
* Monitoring Jenkins jobs and reporting failed builds to Developers involved (both pre-production and production environments)
* Creating and maintaining Ansible playbooks for deployment
* Troubleshooting and solving failed Jenkins jobs
* Implementing and maintaining pipelines for continuous integration, delivery and deployment
* Scaling Kubernetes pods as required for use cases
* Perform daily server monitoring (both onsite and cloud), verifying the integrity and availability of all hardware, server resources, systems and key processes, application logs and verifying completion of scheduled jobs.
* Setup various AWS infrastructure resources, S3, EC2, RDB and services such as code pipeline, EBS and Cloud formation for various environments as per team needs
* Integrate existing CI/CD toolset with Azure pipelines (Unit test, SonarQube, TestComplete, Redgate, Terraform, Fortify and Docker.
* Develop and maintain varying templates and code bases related to DevOps CI/CD pipelines and structure.
* Create and upgrade infrastructure deployment by configuring Terraform templates
* automate provisioning and configuring of infrastructure using Terraform for both on premise and the Cloud.
* Build & maintain the infrastructure systems that underly all production & development systems using Terraforms
* Resolve and document issues related to Terraform deployments
* Designed and implemented container orchestration systems with Kubernetes.
* Managing user accounts, roles and policies for the Development team using AWS IAM
* Maintained docker images / containers and pushed failed images to Artifactory
* Troubleshoot problems arising from Build failures, deployment failures and environment specific issues.

 **Environment:** Gerrit, Jenkins, Docker, Ansible, Kubernetes, Splunk, Cloud Formation, AWS On-Prem Data Center.

# EDUCATION

**Master’s in Computer Science - University of Memphis - Memphis, Tennessee**

 **Bachelor’s in Computer Science - Mallareddy Engineering College - India**