**RAHUL SHARMA**

**Sr DevOps Engineer**

IT Professional having 12 years of robust experience as an Infrastructure Expert and Solution provider to Distributed systems, Data Centers, and Cloud Systems with deep knowledge on delivering Business Solutions, operation management & support for different clients and customers located globally for Telecom and Banking industry. Medium paced learner with very strong knowledge acquisition skills.

**TECHNICAL SUMMARY**

* Experience in design, build and implement cloud-native architectures with Kubernetes and related technologies.
* Responsible for overall Kubernetes setup, configuration, and Architecture.
* Configuring and maintaining/ supporting a large-scale Kubernetes environment in on-prem and cloud that runs 100s of Docker containers
* Extensive experience in using Build Automation tools like, ANT, Maven.
* Experience in and demonstrated understanding of source control management concepts such as branching, merging, labeling and integration
* Experience building CI/CD pipelines using tools like Jenkins.
* Immense experience on technologies like JBoss EAP, WebLogic Application Server, WebSphere Application Server, Apache and Tomcat.
* Strong Knowledge on MSSQL, MySQL, PostgreSQL and Mongo DB Administration Activities.
* Expert in Database heterogeneous migrations in On-premises and Cloud.
* Leading the team of 20+ efficiently in activities like CAB calls, Incident Calls, Problem calls, Interviews, RBAC, Shift schedules, New Joiner trainings etc.
* Expert in the administration of Multiple Web and Application Servers hosted on different Operating systems, Capacity Planning, System Analysis, Design, Server Configuration and Performance tuning.
* Experienced in Team management, Team Building and Operation Management.
* Strong Knowledge on Database License Management.
* Implemented AWS Cloud platform and its features which includes EC2, VPC, EBS, AMI, SNS, RDS, EBS, DMS, Cloud Watch, Elastic Beans talk, Cloud Formation, Auto Scaling, Cloud Front, IAM, S3.
* Experience on AWS services Code commit, Code build, Code Pipeline and code deploy.
* Working knowledge on Azure Cloud Services, Azure SQL, Azure storage and Azure Service Bus, Load balancing, Blob Storage and File Storage.
* Good working Experience in GCP Services Like Compute Engine, App Engine, Kubernetes Engine.
* Expert GCP databases like Bitable, Big Query and data store.
* Possess excellent stakeholder management skills and dealt with clients across world.
* Have good knowledge on Scripting (Shell, Python).
* Reduced costs by each month by eliminating unnecessary servers and consolidating databases and Application servers.

**ACADEMIC QUALIFICATION**

* **MCA**  from **Osmania** University (2009)

**ACHIEVEMENTS**

* Numerous awards from Tech Mahindra and Temenos for outstanding contribution towards support and collaboration during Pre-sales, Implementation and Data migration activities.

 **TECHNICAL SKILLS**

**CI /CD Tools : Jenkins, AWS DevOps**

**Build Tools : Ant, Maven**

**Configuration Management Tools : Ansible, Terraform**

**Monitoring Tools : Prometheus, BPPM, HP BAC, Splunk**

**Bug Tracking/Ticketing tools : JIRA, Service Now, Remedy**

**Cloud Services : AWS, GCP and MS Azure**

**Database : MsSQL, MySQL, PostgreSQL and MongoDB**

**Web/App Servers : Apache, Tomcat, JBOSS, WebLogic, WebSphere, IIS, IHS**

**Languages : Linux Bash, Python**

**Networking & Protocols : TCP/IP, Telnet, HTTP, FTP, LDAP, DNS, DHCP, NFS,**

**TLS/SSL.**

**Repository Management : GitHub, SVN**

**Containerization : Docker, Kubernetes,AKS**

**Project Summary**

**Client: Barnes & Nobels, NY**

**Role: Sr. DevOps Engineer**

**Duration: Feb 2022 To Till Now**

Managed a team of 6 people for providing infrastructure set up on Azure using the Terraform, CI-CD Setup with Jenkins, Azure Pipeline.

* As a DevOps Team Lead, Responsible for overseeing all activities within a team.
* Re-defining Architecture by analyzing the current system and following new practices.
* Building the Infrastructure using the Terraform.
* Planning and documenting technical specifications for features or system design.
* Expert in Setup in Azure AKS Environment using CLI.
* Expertise in Migrating Monolithic application to Azure Micro Services.
* Good Experience setting up L4 & L7 Load balancers.
* Database Migrations to Azure PAAS Services using DMS Services.
* Expert in Azure DevOps Roles & Responsibilities.
* Built many monitoring solutions for different projects including ELK, Zabbix, and Prometheus. Involved in creating and managing Kubernetes clusters, ELK clusters, Kafka clusters for many projects.
* Micro service deployment using CI/CD pipeline on Azure AKS.
* Configuring clusters, load balancing and providing failover solutions for the systems.
* Monitoring, patching and configuration of middleware and web server environments.

**Project Summary**

**Client: Wolters Kluwer, NY**

**Role: Sr. DevOps Engineer**

**Duration: July 2021 To Dec-31 2021**

**Duties:**

* Automated build and deployment process using Jenkins as part of Continuous Integration & Continuous Deployment using Ansible Tower onto AWS EC2 instances.
* Worked on AWS, services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Configured multi-platform servers using Ansible roles and developed roles for VM patching of AWS, on-prem instances
* Used YAML languages for AWS CloudFormation to manage all the applications located in Multi-Region Architecture.
* Used Jenkins for Continuous Integration and deployment onto Apache Tomcat Server.
* Building/Maintaining Docker container clusters managed by Kubernetes
* Used Git as source code repositories, managed for branching, merging, and tagging the files.
* Automated the complete CI jobs using Jenkins pipeline DSL and Jenkins Groovy DSL.
* Experience in building CI/CD pipeline using Jenkins Multi Branch Pipeline, DSL Scripts and Groovy with minimal/no manual intervention for multiple applications.
* Responsible for designing and deploying best SCM processes and procedures with Bitbucket, Github, Git & eclipse.
* Integrated Cloud front with S3 storage for content delivery (CDN).
* Used AWS services like SNS, Cloud Watch
* Installed and configured plug-ins for Apache HTTP server to proxy the request.
* Performed Tomcat administration tasks such as installing, configuring, monitoring and performance tuning.
* Worked on Sonar Qube in establishing action plans and configurations as part of code quality analysis.
* Worked on creation of Ansible manifest files to install tomcat instances and to manage configuration files for multiple applications.
* Used Jenkins for Continuous Integration and deployment onto Tomcat Application Server.
* Worked with F5 Networks-Big-IP for high availability load balancing of traffic to the various internet web services.
* Worked on Amazon Virtual private cloud (VPC) in creating public subnets, Private subnets and NAT instances and dealt with security and access.
* Experience in Blue green deployment in reducing downtime and risks in production.
* Worked on Splunk dashboards, visualizations, configurations, reports, Indexers and created new table Datasets as per the requirement and search capabilities using customized Splunk queries.
* Configuring clusters, load balancing and providing failover solutions for the systems.
* Monitoring, patching and configuration of middleware and web server environments.

**Client: Maxis, Malaysia**

**Title: DevOps Engineer**

**Duration: August 2018 to June 2021**

Managed a team of 15 people for providing infrastructure support for the projects in terms of Provisioning servers, container Hosts, MW/DB installations/configurations, internal/external SSL Certificate management, CI-CD Setup with Jenkins, ELK/Grafana Monitoring setup, ensuring end to end Compliance of MW/DB aspects until Projects Go-Live.

**Duties:**

* Working closely with senior stakeholders to understand business requirements and help translate these into technical requirements for the development team.
* Planning and documenting technical specifications for features or system design
* Assisted in designing, capacity planning, and security and accessibility functions of Application servers and databases.
* Designing and planning for micro services deployment on Docker/Kubernetes Environments.
* Designing, implementing, and managing new products on amalgamation of application & DB servers.
* Formulated strategies and plans for system backup services, recovery and availability schemas.
* Micro service deployment using CI/CD pipe line on Kubernetes cluster Environment.
* Container management using Docker by writing Docker files and set up the automated build on Docker HUB and installed and configured Kubernetes.
* Kubernetes cluster resources management.
* Deploying and maintaining production environment using AWS EC2 instances and ECS with Docker.
* Migrated Linux/Windows environment to AWS by creating and executing a migration plan, deployed EC2 instances in VPC, configured security groups attached profiles and roles using AWS Cloud Formation templates.
* Database Migrations to AWS RDS and Azure SQL using DMS Services.
* Build and Support Bitable, Big Query in GCP for the business Analysis reports.
* Used Elastic Search, Log stash and Kibana (ELK) for maintaining Kubernetes Logs.
* Good at Manage hosting plans for Azure/GCP Infrastructure, implementing & deploying workloads on virtual machines (VMs).
* Efficient experience in using Nexus and Artifactory Repository managers for Maven builds.
* Installation of MongoDB on physical machines, Virtual machines as well as AWS. Backup & Recovery, Database optimization and Security maintenance.
* Create clusters in Google Cloud and manage the clusters using Kubernetes (k8s). Using Jenkins to deploy code to Google Cloud, create new namespaces, creating Docker images and pushing them to container registry of Google Cloud.
* Hands-on experience setting up Kubernetes (k8s) Clusters for running micro services. Took several micro services into production with Kubernetes backed Infrastructure.
* Configured Elastic Load Balancers with EC2 Auto Scaling groups. Set up Auto Scaling Groups based on memory and CPU to adapt to unforeseen spikes without having an outage or needing manual intervention.

**Client: Comcast, Denver**

**Title: Middleware/ DBA Admin**

**Duration: Jan 2014 to Aug 2018**

Comcast runs on various application platforms for different LOBs and uses several Middleware products to best support the components. Installation & configuration of entire bundle of components across SIT ENVs and support for Production Environment using different monitoring tools are the primary goals of the team. Have led the team of 6 people majorly taking care of Work assignments, Shift ROTA, P1 Calls.

**Duties:**

* Responsible for setting up production, development, performance, and staging application & database environments.
* Installation and Configuration of MSSQL, MySQL, and PostgreSQL.
* Performed the migration and up-gradation of MSSQL, MySQL and PostgreSQL.
* Monitored and audited database access for unauthorized access.
* Installation and resource configuration of Application Servers like WebLogic, WebSphere and Jboss.
* Thread and Heap Dump Analysis.
* CI/CD Pipeline Configuration for Staging and UAT Environments.
* Prepared Database Patching reports, Weekly reports, and Monthly reports.
* ANT and Maven Configuration on New Project requirements.
* [Database Heterogeneous Migrations.](https://www.beyondtrust.com/docs/privileged-identity/faqs/reorganize-and-rebuild-indexes-in-database.htm)
* Reorganize and Rebuild Indexes in the Database.
* Application server’s heterogeneous migrations.

**Employer: Temenos**

**Product: Triple A Plus, Switzerland**

**Title: Product Specialist**

**Duration: June 2013 to Dec 2013**

Installation and deployment of the private banking product Triple ’A and associated third party (Sybase, Actuate, WebLogic, WebSphere, Domo Pop Chart, WebSphere Transformation Extender) products to create and provide a complete banking environment for the client requests.

**Duties:**

* Installation of Sybase binaries, creation of the data server and creation of the backup server. Import the product data into the data server for testing purpose.
* Installing either WebSphere or WebLogic application server depending on the incoming request. Deploying the Triple’A application into the application server. Creating the data sources to connect to database.
* Creation of the intact environment and URL for the end users to login and perform the banking operations to answer client requests.
* Applying patches for existing environments.
* Following up and updating the documentation and maintenance of the documented procedures of the product installation.
* Upgrading the versions of the third-party products (Sybase, WebLogic and WebSphere) and Triple ’Products as per requirements.
* Regular meetings with test teams regarding the defects raised.
* Creating domains/profiles, servers, starting and stopping of servers using WebLogic/WebSphere scripting tool.
* Configuring vertical and horizontal clusters and deployment over cluster.
* Deployment and troubleshooting of JAR, WAR and EAR files in domain and clustered environments. Configuring WebLogic/WebSphere plug-ins for Apache Web server and configured load balancing.
* Configuring JDBC & JMS resources.
* Server performance tuning by thread dump analysis, core dump analysis when server crashed unevenly.
* Tuning JVM heap size to maximize the number of clients accessing the applications.

**Client: British Telecom, UK**

**Title: Software Engineer**

**Duration: May 2010 to May 2013**

British Telecom relies on many Middleware products for most of its application base. I was in the Middleware support team enterprise wise. Multiple scanning systems across the organization will provide the vulnerable middleware systems along with the details about the vulnerability. We either patch or remediate or apply certificates or make configuration changes to make the systems compliant. Technical, Technical Understanding, Analyzing Information, shift maintenance, Problem Solving, Coordination, Strategic Planning & Quality management are my key roles to perform day-in/day-out to ensure excellent Service delivery within SLA.

**Duties:**

* Installation of Application servers (WebLogic and WebSphere) on Unix/Windows platforms.
* Configured and administered JDBC Connection pools and JMS Connection Factories and implemented other services like JNDI and SNMP.
* Creating Jenkin Pipelines for Develop and UAT Environments.
* Implemented Cache mechanism in Apache Httpd server for better application Performance.
* Deployed various WAR, JAR, EAR and J2EE applications on managed servers and in clustered environment using Console or auto deployment scripts in stage and production.
* Excellent working knowledge in configuring multiple WebLogic domains including machines, manage servers, node managers and cluster environments.
* Expertise in migration and up gradation of WebLogic & Web Sphere Server and updating JDK versions, applying patches and installing service packs for WebLogic server.
* Deployed applications (WAR, JAR and EAR) using WLST
* Have installed WebSphere application server and made sure other required software like oracle, Open SSL, JDK were all properly installed as per the pre-requisites.
* Installed Oracle and imported test data into the database. Installed WebSphere which is used as a web & Business component for different LOBs.
* Creation of Horizontal and Vertical Clusters for Failover and Load Balancing purpose and combination of both clusters in some application environments.
* Trouble Shooting of all L2 & L3 issues and fine tuning of UAT/Production servers in WebLogic & WebSphere by coordinating with developers. Coordinated with Oracle &IBM (Vendor) for application teams to resolve L4 issues.
* Performance monitoring and tuning of application server/web servers.
* Monitoring CPU utilization, JVM memory utilization and application performance.
* Provided 24x7 on call support in production environment on rotation basis.