Krishna
DevOps | Cloud Engineer
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Professional Summary:

- Senior Cloud & DevOps professional with 10+ years of IT Experience as DevOps Engineer comprising of Linux and System Administration with major focus on AWS, Azure, GCP, OpenStack, Continuous Integration, Continuous Deployment, Configuration Management, Linux Systems Administrator with expertise in Private, Public and Hybrid Cloud platforms along with using various tools.
- Experience in setting up the infrastructure using AWS services including EC2, ELB, Elastic Container Service (ECS), Auto-scaling, S3, IAM, VPC, Red Shift, Cloud Trail, Cloud Watch, Lambda, Elastic Cache, Cloud Formation and Storage Gateway.
- Experience in implementation of Azure Cloud Services includes ARM templates, Azure Virtual Networks, Virtual Machines, Resource Groups, Express Route, Traffic Manager, VPN, Load-balancing, Auto-scaling and Application Gateways.
- Hands on experience in using version control tools like Subversion (SVN), Git and GitHub.
- Excellent experience in working with Jenkins for Continuous Integration (CI) and for end-to-end automation for all build and deployments.
- Have strong hands-on experience in implementing the Jenkins shared library in Groovy script.
- Extensive experience using Ant, Maven and Gradle as build tools for building of deployable artifacts (JAR, WAR & EAR) from source code.
- Experience in server monitoring, capacity planning and application monitoring with the help of Nagios.
- Worked with Ansible Playbooks for virtual and physical instance provisioning, configuration management, patching, and software deployment.
- Experience in working on several Docker components like Docker engine, Hub, Machine, Compose and Registry. Worked on creating Custom Docker Images and tagging & pushing them to Docker Hub.
- Experience in Kubernetes to deploy & scale, load balance, and manage Docker containers with multiple name space versions using Helm Charts.
- Experience in managing Kubernetes services such as Elastic Kubernetes Service (EKS) and Azure Kubernetes Service (AKS).
- Extensive experience in Windows/Linux administration activities such as System builds, server builds, Installations, upgrades, patches, migrations, and troubleshooting.
- Experience with web application servers like Apache Tomcat and Jboss.
- Experience with working on databases such as Oracle, My SQL, MS-SQL, PostgreSQL, Mongo DB.
- Experience with Scrum and Agile environments for regular cadences of work.
- Efficient in communication, documentation, and problem identification.
- Well experienced in Production Support, Deployment and Release management. Involved in Installation, administration, patches, up-gradation, migration, configuration, security issues, performance tuning and troubleshooting.
- Using AppDynamics to Find expensive statements (i.e., statements that read a lot of data).
- Understand why some statements are slow performers.
- Receive notifications for increased SQL statement costs and execution.
- Have hands on experience on monitoring tools Grafana, Prometheus, Prometheus operators, Kube, helm. Operators.
- Experienced using different log monitoring tools like Splunk, Nagios, ELK (Elastic search, Logstash, Kibana) to see logs information, monitor, get health & security notifications from nodes.
- Good understanding of DevOps key concepts like Infrastructure as a code (IaaC).
- Experience in several GCP services like GKE, cloud build, Google cloud IAM, monitoring.
- Extensive involvement in Azure backup, Azure polices, Azure key vault.

Educational Details:

- Bachelors in Electronics & Communication from JNTU - 2010.
- MBA in Business Management from NMIMS - 2017.

Certification:

- Certified AWS Solutions Architect Associate.

Technical Skills:

Operating Systems	UNIX, Sun Solaris, Red Hat Linux, SUSE, Ubuntu, CentOS, Windows.
Application Server	WebLogic, WebSphere, IIS, JBOSS, Apache, Tomcat.
Tools	CVS, Subversion, GIT, GITHUB, Gitlab, Bitbucket, Ant, Maven, Bamboo, Ansible, Nexus, Docker, Terraform.
Build Tools	ANT, Maven, Code Pipeline, Code Commit, Code Build, Code Deploy
Continuous Integration Tool	TeamCity, Bamboo, Jenkins, Ansible, Chef, Puppet
Ticketing Tools	ServiceNow, One Console and Jira, Remedy
Scripting language	Shell, Python, Groovy, YAML
Infrastructure automation tools	Chef, Ansible
Cloud Flat form	AWS, EC2, ECS, S3, IAM, RDS, ELB, Elastic Beanstalk, Lambda, EBS, Redshift, SNS, SQS, CloudWatch, CloudFormation, VPC, Route53, AWS Configuration, ECR, GCP, Azure
Monitoring Tools	Nagios, Grafana, Datadog, CloudWatch
Virtualization	VMware, Docker
IDE	PyCharm, Visual studio
Automation tools	Jenkins, Terraform, CloudFormation

Work Experience:

Sr DevOps Engineer ***Feb 2023 – Present***
Charter Communications, Stamford, CT
Roles and Responsibilities:

- Used CloudFront to scale and distribute static content via an S3 bucket and DynamoDB, to maintain application state. Developed Lambda functions in python for AWS Lambda to run the code in response to cloud front events, HTTP requests using AWS API Gateway and invoked the code using API calls made using AWS SDKs.
- Created AWS S3 buckets, performed folder management in each bucket, Managed cloud trail logs and objects within each bucket. Configured and managed AWS Glacier, to move old data to archives based on retention policy of databases/ applications.
- Build servers using AWS, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
- Utilized Cloud Watch to monitor resources such as EC2, CPU memory, Amazon RDS DB Services, EBS volumes; to set alarm for Notification or Automated actions, and to monitor logs for better understanding and operation of the system.

- Wrote many YAML files to create many services like pods, deployments, auto scaling, load balancers and troubleshooting the issues and errors while deploying Kubernetes Pods.
- Configured applications that run multi-container Docker applications by utilizing the Docker-Compose tool which uses a file configured in YAML format.
- Created Docker Swarm using Docker CLI to Orchestrate, schedule and deploy the services to Swarm and managed the Swarm behavior and created virtual networks to connect Docker containers across multiple hosts using Docker weave.
- Experienced in customizing Splunk dashboards, Visualizations, Configurations, Reports, Indexers, and search capabilities using customized Splunk queries. Troubleshooted crash logs, WMI issues and alert scripts. Deployed new Splunk systems and monitor Splunk internal logs from the Monitoring Console (MC) to identify and troubleshoot existing or potential issues.

Sr DevOps Engineer ***Mar 2020 – Jan 2023***
United Health Group, Eden Prairie, MN
Roles and Responsibilities:

- Managed Azure Infrastructure, Azure Web Roles, Worker Roles, Azure SQL, Azure Storage, Azure AD Licenses. Virtual Machine Backup and Recover from a Recovery Services Vault using Azure PowerShell and portal.
- Migrate web-based, in-house customize application from on-premises datacenter to Azure.
- Developed Ansible playbooks, inventories, and custom playbooks in YAML, and encrypted the data using Ansible Vault and maintained role-based access control (RBAC) by using Ansible Tower and implemented IT orchestration using Ansible to run tasks in a sequence which can work on different servers.
- Implemented Jenkins pipelines into Azure pipelines to drive all micro services builds out to the Docker Registry and then deployed them to Kubernetes, Created Pods and managed using Azure Kubernetes Service (AKS).
- Managed Maven project dependencies by creating parent-child relationships between projects. Implemented Continuous Integration and Continuous Deployment using Jenkins with build tools Maven, Ant, and Gradle.
- Managed Azure Container Registry to store private Docker Images, which are deployed and Azure pipelines to build, test, and deploy. Azure Monitor to collect metrics and logs. Configured Monitor to track performance and maintain security.
- Used Kubernetes to deploy Docker containers into Pod clusters on multiple nodes in QA, Test and Production Environments.
- Managing Kubernetes using Helm Charts. Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases for Helm packages. Established a local dev workflow that centered around minikube to validate deployments in Kubernetes.
- Worked with Terraform Templates to automate the Azure IAAS virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
- Wrote Terraform scripts.
- Managed infrastructure automation using Terraform.
- Completed an average of 10 projects per month with Terraform.
- File/Folder, Object handling and building automation scripts using PowerShell and Bash.
- Configure High Availability, Traffic manager and Load Balancers in Azure.
- Implemented Release schedules, communicated the release status, created Roll out plans, tracked the project milestones, prepared the reports, and worked for a successful release of JIRA application.
- Incident management - logging, prioritizing and resolving incidents and tracking them against various SLAs.
- Problem management - resolving recurring incidents permanently, performing break fixes and implementing preventative action items.
- Configuration management - tracking the versions of key system artifacts and source code in version control software.

- Change Management - submitting change requests, documenting impact and benefits, obtaining approval by a change control board and managing the implementation using PAC2000.
- Integration Engineering Manage code deployments and migrations through the environment stack from Development, to SIT, to UAT, To Prod and BCP.
- Monitor system availability.
- Manage and support high-availability 24/7 production systems with an on-call rotation.
- Research, develop, and deploy automation scripts and tools to improve the team's overall efficiency.
- Document and execute disaster recovery processes.
- Follow proper escalations procedures.
- Excellent listening skills, self-starter, assertive, thorough, follows established procedures and the ability to meet deadlines.
- Must be able to communicate effectively and work well within a team environment.
- Manage projects in SharePoint.

DevOps Engineer ***Aug 2017 – Feb 2020***
General Electric, Atlanta, GA
Roles and Responsibilities:

- Involved in new release deployments and country migrations. Involved in all automations for the application and which have added more efficient work for avoiding application-level failures.
- Participated in the release cycle of the product which involves environments like Development, UAT and Production.
- Manage source control repository in GIT– controlling and monitoring Source code & create tags for builds. Creation of new version-controlled branches, merging branches, resolving merge conflicts in Git.
- Implemented docker-maven-plugin in maven pom to build docker images for all micro services and later used Docker file to build the docker images from the java jar files.
- Utilized Kubernetes for the runtime environment of the CICD system to build, test deploy.
- Experienced in Cloud automation using AWS Cloud Formation templates to create custom sized VPC, subnets, NAT, EC2 instances, ELB and Security groups.
- Experienced in creating complex IAM policies, Roles, and user management for delegated access within AWS.
- Deploying Docker images in Kubernetes cluster using Yaml files and exposing the application to internet using service object.
- Managing Kubernetes using Helm Charts. Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases for Helm packages. Established a local dev workflow that centered around minikube to validate deployments in Kubernetes.
- Deployment of application into different environments using Ansible Playbooks.
- Performed the automation deployments using AWS Cloud by creating the IAM and used the code pipeline plugin to integrate Jenkins with AWS Cloud and created the EC2 instances to provide the virtual servers.
- Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and configuring launched instances with respect to specific applications.
- Implemented IAC (Infrastructure as a code) using cloud formation template for managing infrastructure easy, reliable, and rapid.
- Setting up databases in AWS Cloud using RDS, storage using S3 buckets and configuring instance backups to S3 bucket.
- AWS Cloud Import/Export accelerates moving large amounts of data into and out of AWS using portable storage devices for transport.
- Designed an Architectural Diagram for different applications before migrating into Amazon cloud for flexible, cost-effective, reliable, scalable, high-performance, and secure.
- Create and Manage CloudWatch configurations for Auto scaling (In & Out) launch configurations.

DevOps Engineer ***Feb 2014 – Jul 2016***
HSBC, Buffalo, NY
Roles and Responsibilities:

- Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
- Used Google Compute Engine to set up scalable set of VMs to serve as large compute clusters while performing Online migration.
- Implemented a Continuous Delivery (CD) framework using Jenkins, Maven, Chef and Nexus in Linux environment.
- Setup GCP Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
- Coordinated with all corresponding Agile teams to move all kinds of changes to PROD environment and make the release plans for PROD deployment.
- Involved working on Google Cloud Platform (GCP) services such as cloud load balancing, compute engine, cloud SQL, cloud storage, stack driver monitoring and cloud deployment manager.
- Created Jobs in Jenkins by configuring global permissions and scheduling jobs using poll SCM. Created ANT and MAVEN Scripts to automate the build process.
- Developed and maintained Continuous Build and Continuous Integration environments in Agile projects, integrating and automating tools like Selenium with build processes to provide detailed metrics and feedback for development teams.
- Deployment of the Business processes by creating JAR, WAR and EAR files to JBoss Application Server.
- Worked on JIRA as a bug tracking tool for workflows, notifications, and permissions.
- Software Configuration management (Automate CI & CD pipe using Ansible, Maven, Jenkins & GIT).
- Writing inventory files and Ansible configuration files.
- Creating Puppet modules for configuration and Deployment activities. Automating AWS cloud deployments using Shell script.
- Automating AWS cloud deployments using Shell script.
- Perform Build activities using Maven and Jenkins tools.
- Configuring Jenkins job with related plugins for Testing, Artifactory, and Continuous Deployment to accomplish the complete CI / CD.
- Coordinate/assist developers with establishing and applying appropriate branching, labelling/naming conventions using GIT source control.
- Analyze and resolve conflicts related to merging of source code for GIT.
- Resolved merging issues during rebasing and re-integrating branches by conducting meetings with Development Team Leads.
- Responsible for designing and deploying best SCM processes and procedures.
- We work very closely with Developers and Build & Release team. We set up Jenkins server & nodes for build and release team as per request.
- We have recently worked on Docker and successfully have set up a Dev & Test environment for Developers and testers by using Docker build & compose.
- Supported and developed tools for integration, automated testing, and release management.
- Resolved update, merge and password authentication issues in Jenkins and JIRA.
- Worked in an agile development team to deliver an end-to-end continuous integration/continuous delivery product in an open-source environment using tools like Ansible and Jenkins.
- Launched an AWS Cloud EC2 instance using CloudFormation Template mapping the instances and passing the AMI id of the instance.
- Working on various Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry (Artifactory).

System Administrator ***Dec 2011 – Jan 2014***
ICICI Bank Ltd, Hyderabad, TG
Roles and Responsibilities:

- Responsible for troubleshooting complex network system and application problems and applying.
- appropriate solutions in a diverse network operating system.
- Generated reports for use by senior management and cross-functional teams.
- Maintained Production, QA and Development environments, as well as deployed new code to these environments.
- Configuring and troubleshooting a variety of applications including the LAMP stack (Linux, Apache, and MySQL), J2EE applications (Tomcat, Jboss), Kernel, and FTP applications.
- Maintaining a highly available environment (24x7x365); managing application upgrades including scheduling, coordinating, communicating and maintaining high availability and data integrity throughout the process.
- Streamlining systems management and deployment process tools by implementing automation where necessary.
- Creating and maintaining documentation on processes and procedures.
- Maintaining and ensuring backups and disaster recovery procedures are maintained and tested regularly.
- Proactively monitoring systems and network utilization to make recommendations for future capacity and scalability.
- Provided hands-on technical support related to the overall health and maintenance of Linux operating environment in support of 24x7x365 operations.
- Plan and contribute to the deployment of Linux solutions in production and testing environments.
- Executed troubleshooting techniques geared at diagnosing common Linux system issues and records system output to ensure continuous uptime.
- Providing operational support to engineering Linux users on the desktop as needed.
- Installing new and rebuilding existing servers and configuring hardware, peripherals, services, settings, directories, storage, etc. in accordance with standards and project/operational requirements.
- Conferred with network users to resolve existing system problems.
- Analyzed equipment performance records to determine the need for repair and replacement.
- Diagnosed, troubleshooted and resolved hardware, software, and other network and system problems.
- Performed data backups and disaster recovery operations.
- Monitored network performance to determine whether adjustments needed to be made and to determine where changes needed to be made in future.
- Configured email applications or virus protection software.
- Tested computer hardware, networking software, and operating system software.
- Maintained and administered computer networks and related computing environments.