

**Manoj Kumar L**

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**Linux Engineer || Build & Release Engineer || SRE Engineer || Sr. DevOps Engineer**

### **Professional Summary:**

- A proactive IT professional with **10+ years of experience** in AWS, Azure, DevOps, and build and release management involves extensive work towards code compilation, packaging, building, debugging, automating, managing, monitoring, tuning, and deploying code across multiple/distributed environments.
- Extensive experience in the design and implementation of Continuous Integration, Continuous Delivery, Continuous Deployment (CI/CD) and DevOps processes.
- servers using **AWS** including importing volumes, launching EC2, creating security groups, auto-scaling, load balancers in the defined virtual private connection.
- Configured and administered Apache web server, JBOSS application server, and Tomcat servlet container on SUSE Linux v11 and v12 systems.
- Configured and managed IBM MQ message queueing software to facilitate reliable and secure message delivery across distributed systems.
- Implemented Advanced Message Service (MQ AMS) encryption to protect sensitive data in transit across MQ channels.
- Collaborated with development teams to troubleshoot issues related to web applications and message delivery.
- Created and maintained scripts to automate routine administrative tasks and ensure system uptime.
- Monitored system performance and capacity to proactively identify and address potential issues
- Designed and implemented infrastructure as code using **Terraform** to deploy and manage Azure resources such as virtual machines, storage accounts, and network configurations.
- Automated the deployment and configuration of complex Azure architectures using **Terraform** modules, allowing for fast and consistent deployments across multiple environments.
- Highly scalable object storage service for storing and retrieving data such as images, videos, and static website content.
- Provides features such as versioning, lifecycle policies, access control, and cross-region replication for data backup and disaster recovery.
- Serverless compute service for running code in response to events or triggers from other AWS services.
- Allows developers to deploy code without worrying about server infrastructure, scaling, and availability.
- Managed service for sending notifications and messages to subscribe endpoints such as email, SMS, HTTP, and Lambda functions.
- Provides features such as filtering, message attributes, and message delivery retries for efficient and reliable message processing.
- Fully managed message queuing service for decoupling and scaling distributed applications.
- Provides features such as visibility timeouts, delivery delays, and dead-letter queues for reliable and fault-tolerant message processing.
- Implemented infrastructure-as-code best practices such as code reviews, testing, and version control, ensuring that

infrastructure changes are tracked, audited, and reproducible.

- Optimized Azure infrastructure costs by implementing Terraform modules that dynamically scale resources based on demand, resulting in significant cost savings.
- Maintained up-to-date knowledge of new features and capabilities in Azure and Terraform and provided recommendations for how to incorporate them into existing infrastructure. Utilized Azure Key Vault with Azure Functions, Azure Virtual Machines, and other Azure services to protect and manage sensitive data.
- Configured Azure Key Vault to use Azure AD for authentication and authorization of users and applications.

### **Technical Skills:**

<b>Operating Systems</b>	Unix, LINUX, and Windows XP/ 7/ 8/10, RHEL, CENT OS & hands on all virtual box operating systems.
<b>Version Control Tools</b>	GIT, Subversion, CVS
<b>Build Tools</b>	ANT, Maven & MS Build.
<b>Continuous Integration</b>	Jenkins, Bamboo
<b>Configuration Management Tools</b>	Puppet, Chef, Hash corp Terraform & Ansible,AKS
<b>Containerization Tools</b>	Docker, Docker Swarm, Kubernetes.
<b>Quality Management Tools</b>	SONARQUBE
<b>Programming/Scripting Languages</b>	Shell (Bash), Python, Ruby, Perl, PowerShell, XML, JavaScript's, ANT Script, C, Java, and J2EE
<b>Servers</b>	Apache Tomcat, WebLogic, WebSphere, Nginx and IBM JBoss.
<b>Repository Managers</b>	Nexus and Artifactory.
<b>Monitoring Tools</b>	Nagios, AppDynamics, Splunk and CloudWatch.
<b>Bug Tracking Tools</b>	JIRA, Bugzilla.
<b>Cloud Technologies</b>	AWS, Azure and OpenStack
<b>Databases</b>	MySQL, Oracle, NOSQL, Mongo DB
<b>Web technologies Servlet</b>	JDBC, JSP, XML, HTML, Java Script, Typescript
<b>Network protocols</b>	SMTP, SNMP, ICMP, TCP/IP, FTP, TELNET

### **Education Details:**

Bachelors in computer science – 2013 From JNTU Hyderabad

## Professional Experience

Ahold Delhaize – Philadelphia, PA

Jan 2022 to till date

Senior DevOps/AWS Cloud Engineer

- Created **S3** buckets to store and manage objects such as images, videos, and static website content.
- Implemented versioning, lifecycle policies, and access control using S3 bucket policies and **IAM** roles.
- Utilized AWS CLI, SDKs, and console to interact with S3 resources.
- Configured S3 cross-region replication for disaster recovery and data backup.
- Developed and deployed serverless functions using AWS Lambda to run code in response to events or triggers from other AWS services.
- Integrated **Lambda** functions with API Gateway, S3, DynamoDB, and other AWS services.
- Utilized IAM roles and policies to secure Lambda functions and restrict access to AWS resources.
- Monitored Lambda function performance using **CloudWatch** metrics and logs.
- Created SNS topics and configured subscriptions to send notifications to endpoints such as email, SMS, HTTP, and Lambda.
- Integrated **SNS** with AWS services such as **CloudFormation**, EC2, and Lambda to trigger notifications in response to events.
- Configured SNS message filtering to deliver targeted notifications based on attributes.
- Implemented message queues using Amazon **SQS** to decouple and scale distributed applications.
- Configured SQS queues with different visibility timeouts, delivery delays, and message retention periods.
- Utilized SQS dead-letter queues to handle failed messages and ensure message processing reliability.
- Integrated SQS with AWS services such as Lambda and **EC2** to process messages asynchronously.
- Worked on Amazon **AWS EC2** cloud services for installing, configuring, and troubleshooting on various Amazon images.
- Managing Amazon instances by taking **AMIs** and performing administration and monitoring of Amazon instances like EC2 using Amazon Cloud Watch.
- Involved in Setting up a Continuous Integration Environment using **Jenkins** and responsible for design and maintenance of the **GIT** Repositories, views, and the access control strategies.
- Proficient in Kubernetes and **Docker** technologies, with experience in deploying, managing, and scaling containerized applications.
- Experience with container orchestration using Kubernetes and Docker Swarm, including deploying applications and managing cluster resources.
- Installed, configured, and maintained Internet Information Services (IIS) web server to support .NET applications and web services.
- Troubleshot IIS-related issues, including HTTP errors, authentication failures, and performance bottlenecks.
- Developed and maintained PowerShell scripts to automate routine system administration tasks, such as user management, backup and recovery, and server configuration.
- Worked with configuration management software such as Chef, Puppet, or Ansible to manage infrastructure as code and ensure consistency across environments.
- Updated and developed associated configurations for various applications, including web servers, databases, and middleware.
- Automated **AWS (VPC, EC2, S3, ELB, IAM)** deployments using **Ansible**.
- Worked on Auto scaling, Cloud watch (monitoring), SNS, **AWS Elastic Beanstalk** (app deployments), Amazon **S3** (storage) and Amazon EBS (persistent disk storage).

- Experience in **AWS Ansible** Python Script to generate inventory and push the deployment to Managed configurations of multiple servers using **Ansible**.
- Proficient in using **Kibana** for data visualization and analysis.
- Able to use Kibana for real-time monitoring and alert. Involved in writing various custom **Ansible** and **Ansible tower** playbooks for deployment, orchestration, and developed **Ansible Playbooks** to simplify and automate day-to-day server administration tasks.
- Implemented and maintained monitoring and alerting of production and corporate servers such as EC2 and storage such as **S3** buckets using **AWS Cloud Watch**.
- Centralized monitoring and logging for the systems that are running on the cloud(s) and on premise, using tools such as **Nagios**.
- Experience in **AWS** services (VPC, EC2, S3, RDS, Redshift, Data Pipeline, EMR, Dynamo DB, Redshift, Lambda, SNS, SQS).
- Experienced in authoring pom.xml files, performing releases with the Maven release plugin, Maven of Java projects and managing Maven repositories.
- Understanding of developing and testing enterprise products, with current focus on cloud-based application and giving solution to challenges imposed by multi data center deployed SaaS products and their needs for DevOps

**Environment:** AWS, Ansible, Jenkins, Packer, GIT, AWS EC2, Route53, S3, VPC, EBS, Auto scaling, Nagios, Unix/ Linux environment, bash scripting, IAM, Cloud Watch, Cloud Formation, Puppet, Docker, Chef, GitHub, Maven, Jenkins., Nexus, WebLogic 8, TOMCAT 7/8, Python Scripts, Perl Scripts, Ruby Scripts, XML, Unix, JIRA

**MD Think - Maryland**

**Nov 2018 to Dec 2021**

**SRE Engineer**

- Configured and managed Azure DevOps environments, including repositories, projects, and user access, facilitating efficient collaboration and version control among development teams.
- Designed and implemented end-to-end CI/CD pipelines using Azure DevOps, Git, and Azure Pipelines, automating build, test, and deployment processes for multiple applications and environments.
- Employed Infrastructure as Code practices to define and deploy Azure resources using tools such as ARM templates, Azure CLI, or Terraform, ensuring consistent and reproducible infrastructure deployments.
- Orchestrated and coordinated software releases using Azure DevOps Release Management, ensuring smooth and reliable deployments to various environments, such as development, testing, and production.
- Implemented continuous integration practices, integrating code changes from multiple developers and branches, performing automated builds, and executing unit tests using Azure Pipelines or Jenkins.
- Utilized Azure DevOps to manage application configurations, maintain version control, and ensure consistency across different environments, enabling streamlined and controlled configuration management.
- Set up and configured Azure Monitor or other monitoring tools to proactively monitor application performance, infrastructure health, and generate alerts for potential issues, enabling prompt issue resolution and minimizing downtime.
- Collaborated effectively with cross-functional teams, including developers, testers, and operations, using Azure Boards and Azure Repos, facilitating transparent communication and seamless project management.

- Provided technical support and troubleshooting expertise to development teams, identifying and resolving issues related to Azure DevOps tools, build configurations, deployments, and infrastructure.
- Created comprehensive documentation and conducted training sessions for development teams, promoting best practices for using Azure DevOps tools and processes, ensuring knowledge sharing and team proficiency.
- Proficient in designing and implementing CI/CD pipelines on Google Cloud Platform (GCP) using tools such as Jenkins, GitLab CI/CD, or Cloud Build.
- Experienced in automating infrastructure provisioning and management using tools like Terraform or Deployment Manager, enabling infrastructure as code (IaC) practices.
- Skilled in containerization technologies, including Docker and Kubernetes, for creating scalable and portable applications on GCP.
- Implemented monitoring and logging solutions on GCP using tools like Stackdriver or Prometheus to ensure system reliability and performance optimization.
- Demonstrated expertise in managing and optimizing GCP services like Compute Engine, App Engine, Cloud Storage, Cloud SQL, and BigQuery for efficient application deployment and data processing.
- Proficient in scripting languages such as Python or Bash for automating routine tasks, deploying applications, and orchestrating infrastructure on GCP.
- Implemented security best practices on GCP, including network security configurations, IAM roles and permissions, and data encryption using tools like Cloud Identity and Access Management (IAM) and Cloud KMS.
- Collaborated with cross-functional teams, including developers, QA engineers, and system administrators, to streamline the software development lifecycle and improve release management processes.
- Conducted performance testing and optimization of GCP resources to ensure high availability, scalability, and cost efficiency.
- Stayed updated with the latest GCP services, features, and best practices by actively participating in online communities, attending conferences, and pursuing relevant certifications like Google Cloud Certified - Professional Cloud DevOps Engineer.
- Integrated Route53 with other AWS services such as Certificate Manager and CloudFront for secure and fast content delivery
- Mentored and trained junior SRE team members on best practices for system administration, troubleshooting, and automation

**Environment:** Grafana,Prometheus,Nagios,Datadog,Puppet,Ansible,Terraform,Chef,Kubernetes,CI/CD,ELKstack,Gray Log, AWS and GCP

**Thomson Reuters, India**

**Sep 2015 to July 2018**

**Build and Release Engineer**

- Responsible for **Build** & Release of applications and writing automation scripts
- Participated in the release cycle of the product which involve environments like Development QA and **UAT**.
- Implemented & maintained the branching, merging and build/release strategies utilizing **Subversion**.
- Installed, Deployed Red Hat Enterprise **Linux**, CentOS and installation of packages, patches.
- Ensured that all the release processes, policies and procedures are properly communicated and documented on internal Wikis.
- Scripting and scheduling CRON jobs using shell scripting and collecting information for analysis on **servers**.
- Hands on experience in administration of **Linux/windows** servers.
- 24/7 client support for quick resolving of issues and **tickets** related to application.

- Support and advice for issues related to **application servers**.
- Configured email server to test, if email alerts are being triggered when web service call is successful.
- Developed an application for automating the build and deployment process in various environments using Servlets, JSP, **Apache** Ant and **Linux** BASH script.
- Developed a shell script for real time monitoring and reporting of status of the application server JVMs and server machines on the internal network using **BASH** shell on **RHEL**.
- Worked on .Net Applications for Portal Applications and Tomcat Web server for hosting web apps. Used **SVN** version control system to manage different builds for the system.
- Experience as .Net application in a variety of roles and environments as a server-side application development and application maintenance including **agile** and **waterfall**.
- Performed client-side validations over the forms .net application Implementation of **shell scripts** to schedule, monitor, report and enhance performance of **servers**.
- Performed automation validation for client-side servers.
- Prepared installation & troubleshooting manuals and documented entire **implementation**.
- Deployed virtual machines from templates and installed configured application in virtual machine
- Worked on configuration and administration of NFS, DNS, Open **LDAP**, DHCP, Mail Servers and Web Servers like **Apache** HTTP & **Tomcat** in heterogeneous environments
- Installed patches and software upgrade recommended as per security scan. Good Working Knowledge with Linux Kernel Configuration, **Load balancing** techniques and DR plans

**Environment:** Bash, CentOS, Ant, RedHat, RHEL, JVM, Jboss, WebLogic, Java, J2EE.

**ICICI Bank, India**

**Oct 2013 to Aug 2015**

**Linux Engineer**

- Built and maintained network infrastructure consisting of Windows, **Linux**, and virtual products
- Defined enterprise processes and best practices and tailored enterprise processes for **applications**
- Resolved issues related to operational components for **Local Area Networks**, Wide Area Networks, and voice systems
- Learned about selection of complete hardware and design, including the development of network architectures for Simatic PLC, **HMI** and **SCADA** Systems
- Provisioning / configuring required software onto servers, such as **web servers** and **databases**
- Deployment of application patches and upgrades; perform reboots & configuration changes.
- Configuring and implementing **LINUX** Kernel re-compilation.
- Administered **SMTP** and **DNS** infrastructure.
- Designed, configured, and implemented an enterprise **Red Hat** Linux Kickstart DVD installation to automate installation of **RHEL** workstation servers.
- Responsible for monitoring, management and performance analysis of storage and SAN fabric using **EMC ECC**.
- User and Group administration in **Linux** and Solaris environment.
- Setup DHCP, NFS and **DNS** services on Solaris server and configure them.
- Set up and administer user and **groups accounts**, setting permissions for users.

**Environment:** RedHat, CentOS, SAN switches, DNS and UNIX Shell Scripting, Linux Rpm & Deb