



Ganesh Puli

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DevOps Engineer/ Linux Admin/ SRE Engineer

KEY SKILLS

System Administration (UNIX/LINUX), DevOps, DevSecOps, Chef, AWS, Azure, Jenkins, Docker, Terraform, Ansible, OpenShift, Kubernetes, Security hardening, networking, Performance Monitoring, Storage, Cloud, User Management, Migration, VMware.

PROFESSIONAL SUMMARY

A result-oriented IT professional with over 7+ years of experience in DevOps, DevSecOps and Infrastructure, Build & Release and Configuration Management on Unix/Linux and **AWS, Azure, Data center migration, CI/CD pipeline, Build/release management** and virtualization technologies which also includes troubleshooting and performance issues. Expertise in scrum methodologies such as **Agile** and **Waterfall methods**, software development lifecycle management. Experience in tools like **Terraform, Ansible, Docker, Kubernetes**, several scripting languages, and monitoring tools.

- 7+ years of experience working as a DevOps Engineer with overall relevant experience in project support and maintenance of various web and backend applications in the domains of banking, telecom and insurance, retail operations.
- Expertise in Amazon **AWS** Cloud Services and administration which include **EC2, ELB, EBS, IAM, S3, Route53, Cloud Front, Lambda, Cloud Trail, Amazon CLI, Amazon VPC**. Utilized Cloud Watch to monitor resources such as **EC2**, CPU memory, **Amazon RDS DB** services, **Dynamo DB** tables, **Elastic Block Store (EBS)** volumes to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
- Expertise in Architecting and Implementing **Azure Service** Offering, such as **Azure cloud services, Azure storage, IIS, Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Storage, Azure, Blob Storage, Azure VMs, Azure Functions, Azure Service Fabric, Azure Monitor, and Azure Service Bus**.
- Experience in configuring **AWS Identity & Access Management (IAM)** by managing the user's new accounts, roles, and groups.
- Proficient in designing, implementing, and managing infrastructure using **Terraform, CloudFormation** and **Ansible**.
- Demonstrated ability to automate infrastructure provisioning and configuration management, ensuring consistency and reliability across environments.
- Experience in creating reusable **Terraform** modules and **Ansible** playbooks to streamline deployment processes.
- Designed, Architected, and implemented Platform as a service built for multi-tenant platform within the Hybrid cloud infrastructure such as **AWS**.

- Experience in Designing, Architecting, and implementing scalable cloud-based web applications using AWS and Azure.
- Involved heavily in setting up the **CI/CD** pipeline using **Jenkins, Maven, Nexus, SVN, GitHub, Terraform** and **AWS**.
- Experience working in **Docker hub**, creating **Docker images**, and handling multiple images primarily for middleware installations and domain configuration.
- Experienced on infrastructure with **Docker Containerization**. Collaborated with development support teams to set up a continuous delivery environment with the use of **Docker**.
- Experience setting up instances behind Elastic Load Balancer in **AWS** for high availability.
- Expertise in installing, configuring, and managing the **RDBMS** and **NoSQL** tools like **MySQL, DB2, PostgreSQL** and **MongoDB**.
- Experience in monitoring infrastructure to identify and troubleshoot issues on servers using tools like **Nagios** and **JIRA**.
- Experience in configuring and maintaining **Jenkins** to implement the **CI** process.
- Experience in building a TAR file & RPM Package and pushing this to **JFROG** Artifactory.
- Well versed with source code management tools like **GitHub** for branching, PRs, merging, versioning, tagging and releasing code to prod.
- Experienced working in multi cloud environment on varied **cloud PaaS** and **SaaS** services, its provisioning and troubleshooting.
- Experience in creating CI/CD pipelines on Gitlab and migration of CI/CD pipelines from Jenkins to Gitlab.
- Worked on Java and .NET applications by automating their build from end to end, even by integrating test tools like SonarQube and Visual Studio using Jenkins.
- Strong use of Shell scripting languages including BASH for Linux and Mac platforms and PowerShell for Windows systems.
- Expertise in installing, configuring, and managing Web Logic, Apache, VMWare Server in clustered environments for High Availability, Load balancing and fault tolerant.
- Architected and implemented disaster recovery strategies while enforcing best security practices as an SRE, ensuring operational resilience and robust system security.
- Used Amazon Route53 to manage DNS zones and also give public DNS names to elastic load balancers IP's and AWS Beanstalk for deploying and scaling web applications and services.
- Expertise in Amazon AWS Cloud Administration which includes services like EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Security Groups etc.
- Experienced in designing and distribution of Data across all the nodes and Clusters on different availability zones in AWS Redshift.
- Implemented Micro-services using Pivotal Cloud Foundry (PCF) platform built upon Spring Boot Services.
- Skilled at AWS Cloud platform and its features which include EC2, VPC, EBS, AMI, SNS, RDS, Cloud Watch, Route53, terraform, Auto Scaling, Security Groups, Redshift, and Cloud Formation.
- Experience working on OpenShift, Docker hub, creating Docker images and handling multiple images primarily for middleware installations and domain configuration.
- Experience in using helm charts for Kubernetes clusters.
- Extensive working knowledge on automation for deployment/configuration of different application servers like WebSphere, WebLogic, JBoss; Web Servers like Apache Tomcat and Web containers like

Nginx etc.

- Experience in logging, monitoring, and maintaining application/servers using tools such as Nagios, AWS Cloud Watch, Prometheus, Grafana, App Dynamics and Splunk.

Technical Summary

Cloud Services	AWS, (EC2, S3, EBS, RDS, ELB, IAM, AMI, Auto Scaling). Microsoft Azure.
Scripting Languages	Shell, Bash, and Python.
Build Tools	MAVEN, Gradle, MS Build, and NPM.
Operating Systems:	Linux, UNIX, Ubuntu, Fedora, CentOS, Windows, and iOS.
CI/CD Tools	Jenkins, AWS Code Pipeline, Azure Pipelines, and Gitlab.
Configuration Tools	Chef, and Ansible.
Containerization Tools	Docker, Kubernetes
Web Servers	WebLogic, WebSphere, JBOSS, Apache Tomcat, and Nginx.
Version Control Tools	Subversion (SVN), GIT, Bitbucket, AWS Code commit.
Monitoring Tools	Splunk, Nagios, ELK, Prometheus, Grafana, AWS and CloudWatch.
Code Review Tools	SonarQube, and Snyk.
Bug Tracking Tools	Jira and Atlassian stash.

Education:

B.E (Information Technology Engineering) from Osmania University, India -- 2015

Certifications:

- ❖ AWS Certified Solutions Architect – Associate.
- ❖ Red Hat Certified System Administration (RHCSA).

Client: Verizon

Role: Sr. Cloud DevOps Engineer/ Site Reliability Engineer (SRE)

Roles & Responsibilities:

- Worked on **AWS Services IaaS, PaaS, and SaaS**
- Serving as a hands-on subject matter expert for DevOps and Automation in an **AWS** infrastructure environment
- Provide support to applications and services hosted on **cloud** during any issues.
- Developed new RESTful API services that work as a middleware between our application and third-party APIs.
- Hands-on experience Designing, planning and implementation for existing on-premises applications to AZURE Cloud (ARM), Configured and deployed Azure Automation Scripts utilizing Azure stack Services and Utilities focusing on Automation.
- Expertise in JIRA for issue tracking and project management. Experienced with Installing and Configuring the NEXUS Repository manager for sharing the artifacts within the company. Also, Supported, and developed tools for integration, automated testing and release management.
- Experience writing data **APIs** and multi-server applications to meet product needs using python.
- Experience in writing the **HTTP** RESTful Web services and SOAP API's.
- Deployed applications and configured environment using **Chef and Terraform**. Implemented **Auto Scaling** with Chef and Assign chef roles to **EC2 instances**.
- Hands-On Experience in building Continuous delivery environments using **Jenkins, Git/GitHub/Docker**, and Collaboration tools, **Terraform, AWS Cloud formation** and **Puppet**.
- Collaborate in the automation of **AWS** infrastructure via **terraform** and **Jenkins** - software and services configuration via **chef cookbooks**.
- Deployed and configured Elastic Search, **Log stash** and **Kibana (ELK)** for log analytics, full text search, application monitoring in integration with **AWS Lambda** and **Cloud Watch**.
- Developed Networking policies for **Docker containers**. Worked on opensource development tools **Docker** and **Kubernetes** to build and maintain **Docker containers and Kubernetes** clusters managed by **AWS** and **Azure**.
- I maintain the **AWS & Azure infrastructure and automate the build process on Jenkins** using **Maven, Ansible, Docker**, and **Kubernetes**.
- Modifying and deploying, validating the application and infra to support the new environment on new **VM's**.
- Working closely with different business units (SME's/Architecture) in setting up **cloud infrastructure** as code via **CI/CD** pipeline by using Concourse and **Jenkins**.
- Working with **Build and Release** teams to enhance the current process to implement better software packaging and delivery by automating using **Jenkins**.
- Design and implement processes of Applications file transformation in cloud. These processes were connected using **Azure cli, PowerShell & Jenkins** for creating Automation. Worked in migration of consumer data from one production server to another production server over the network with the help of **Bash** scripting.
- Containerize application builds using docker, writing **Docker file** and running pipelines on docker containers.
- Participating in complete system builds, upgrades, migrations, and patch management.
- Creating build jobs in **Jenkins** to automate the process.
- Troubleshooting the issues faced during **Jenkins** build and failures.

Coforge, Hyderabad - India

Role : Analyst - Devops Services
Roles & Responsibilities :

- Developed and implemented Software Release Management strategies for various applications according to the Agile process.
- Deployed applications on servers, managing the process from code push by developers to live production environments, ensuring smooth and efficient transitions.
- Experienced in deploying applications across various cloud platforms, including AWS, Azure, and OCI.
- Experience in managing and versioning source code on GitHub, Bit Bucket, AWS CodeCommit.
- Created and managed Pull requests on GitHub, GitHub actions and BitBucket.
- Created CI/CD pipelines for automated deployments using tools like Jenkins, Harness, and AWS CodePipeline.
- Created Dockerfiles and built Docker images for seamless Kubernetes deployment, streamlining application containerization and orchestration.
- Successfully deployed microservices on a Kubernetes cluster utilizing ArgoCD and CloudBees tools for automated, efficient, and reliable deployment processes.
- Implemented CI/CD pipelines using tools like GitHub Actions and GitLab Actions to automate build, test, and deployment processes, enhancing development efficiency and code quality.
- Managed and tracked IT service requests and project tasks using ServiceNow and Jira, ensuring efficient workflow and timely resolution of issues.
- Utilized ThousandEyes for network performance monitoring and troubleshooting to ensure optimal connectivity and reliability.
- Implemented application performance monitoring and root cause analysis using AppDynamics, enhancing system reliability and user experience.
- Monitored system health and detected anomalies using Nagios, maintaining high availability and performance of IT infrastructure.
- Leveraged Prometheus for real-time metrics collection and alerting, improving observability and proactive incident response.
- Utilized Grafana for creating and managing dashboards to visualize metrics and logs, enhancing observability and operational insights.
- Implemented SonarQube for continuous code quality analysis, ensuring high standards of code maintainability and reliability.

- Managed and hosted binary artifacts using Nexus, streamlining the build and release process for improved efficiency.
- Utilized JFrog Artifactory for artifact repository management, enhancing build automation and version control.
- Deployed and managed Kubernetes applications using Helm charts, facilitating efficient package management and automated deployment processes.
- Created and Managed cluster on EKS and AKS for microservice applications.
- Automated infrastructure provisioning and configuration management tasks using Ansible, ensuring consistency, scalability, and reliability across environments.
- Utilized Terraform to provision and manage infrastructure as code, ensuring scalable and consistent deployment of resources across cloud environments.
- Managed infrastructure deployments on AWS using CloudFormation and on Azure utilizing ARM templates ensuring efficient and scalable cloud resource provisioning.
- Developed serverless applications and automated tasks using AWS Lambda, leveraging event-driven architecture to achieve scalable and cost-effective solutions.
- Proficient in automating tasks and enhancing workflows using Python for versatile scripting and Shell scripting for efficient system administration and automation.
- Managed sensitive data and credentials securely using AWS Secrets Manager, Azure Key Vault, and HashiCorp Vault, ensuring robust protection and regulatory compliance across cloud environments.

Brane enterprises Pvt Ltd ,Hyderabad

Jan 2023 to Dec 2023

Role: DevOps Engineer

Roles & Responsibilities:

- Working on converting design into infrastructure code developing solutions using **AWS (VPC, EC2, S3, ELB, EBS, RDS, IAM, Cloud Formation, Route 53, Cloud Watch, Cloud Front, Cloud Trail) using orchestration tools Jenkins, Terraform, Ansible & chef.**
- Working in setting up multiple **VPC's, NAT gateways**, security groups, network **ACL's**, internet gateways and route tables to ensure a secure zone for organization in **AWS** public cloud.
- Working in Creation and configuring **Elastic load balancers** and auto scaling groups to distribute traffic in a cost efficient, fault tolerant in a highly available environment.
- Worked on setting up dashboards for monitoring server infrastructure and **SNS** alerts for corrective actions or notifications using **CloudWatch** service, **Splunk, Prometheus & Grafana.**
- Designing and implementing a CI/CD (**Continuous Integration/Deployment**) system.

- Creating an automated pipeline for Continuous Integration and Continuous Deployment (CI/CD) for Platform and Service Teams.
- Expertise in performing with Subversion control, Build, Configuration Management tools like **GIT, DOCKER, ANSIBLE** and Integration & Monitoring tools like **JENKINS** and Nagios.
- Worked on **Azure** and DevOps environments including **Jenkins, Ansible, Kubernetes**.
- Experience with all main **IAAS, PASS** and **SAAS** offerings in AWS cloud.
- Assisted in setting up **Active Directory Domain Controller** with separate forest and domain trust with on premises & **VPN Connections** to AWS Cloud applications.
- Migrated **Database** in large scale from on premises to **AWS PaaS SQL** server
- Worked as owner for 5 subscriptions and contributor for 6 Azure subscriptions.
- Hands on experience in creating and launching **EC2** instances using **AMI's** of **Linux (Amazon, RHEL, SUSE, Ubuntu)**, used **SNS CloudWatch** on **AWS** to monitor **KPI** such as CPU, Memory, requests etc.
- Creating roles, users, groups and implemented **MFA** to provide additional security to **AWS** account and its resources in **IAM**.
- Created **Docker images** using a **Docker file**, worked on **Docker container snapshots**, removing images, and **managing Docker volumes**.
- Used **Puppet** to deploy **ELK** for automating continuous deployment (**CD**) and configured Slave Nodes and deployment failure reporting.
- Created **Puppet** automation with multiple modules as per component in **Kafka, Zookeepers, MySQL, Logstash**, HTTP collectors & Schema registry to install & configure **EC2** instances to create/update Kafka cluster.
- Built **Puppet manifests** and bootstrap scripts to allow us to bootstrap instances to various roles without having to maintain AMIs in **AWS**.
- Created **EBS** volumes for storing application files for use with **EC2 instances**, implemented domain name service (**DNS**) through **route 53** for highly available and scalable applications.
- Worked on **RDS** database instances, configured snapshots to take backups of volumes and images to store launch configurations of the **EC2 instances**.
- Scripted Templates for **AWS** infrastructure as a code using **Cloud Formation / Terraform templates** to build staging and production environments.
- Enabled efficient management of software development and both infrastructure and software deployments utilizing tools such as **Jenkins and Git**.
- Working on creating **EKS cluster** to deploy containerized applications built using **Docker** and setup pipelines in **Jenkins** to deploy applications integrating **Linux base** images and **Tomcat server**.
- Build Automation process implementation using **Jenkins** along with **Python** and **Shell scripts** to automate routine administrative tasks reducing manual intervention.
- Implemented **Continuous Integration and Continuous Delivery** using **Jenkins** and **GIT** from scratch building **custom pipelines** running automation tests.
- Spinning up the Virtual Machines and Automating the installations on those Virtual Machines by using PowerShell Scripting and Cloud Formation
- Design and implement processes of Applications file transformation in cloud. These processes were connected using **Azure cli, PowerShell & Jenkins** for creating Automation. Worked in migration of consumer data from one production server to another production server over the network with the help of **Bash** scripting.
- Hands-On Experience in building Continuous delivery environments using **Jenkins, Git/GitHub/Docker**, and Collaboration tools, **Terraform & AWS Cloud formation** and **Puppet**.

- Implemented **CloudFront** to deliver content from **AWS** edge locations to users, allowing for further reduction of load on front-end servers.
- Created Launch Configurations and Autoscaling Groups to auto scale **EC2** instances whenever the auto scaling policy is met and fronted it with a **ELB** to route traffic to the new instances seamlessly.
- Configured **AWS** Identity and **Access Management (IAM)** Groups and Users for improved login authentication, configured and maintained **Jenkins** to implement the **CI process**.

Concentrix Catalyst Pvt Ltd ,Hyderabad - India

Feb 2020 to Jan 2023

Client: T-Mobile

Role: DevOps Engineer/ Application Support Engineer

Roles & Responsibilities:

- Designed, implemented, and tested infrastructure solutions, ensuring scalability and reliability.
- Spearheaded the adoption of infrastructure-as-code (IaC), CI/CD, and GitOps methods, streamlining deployment processes and ensuring consistency.
- Upheld and updated technical standards, ensuring compliance with best practices and industry standards.
- Demonstrated comprehensive experience working extensively with AWS, proficiently utilizing various AWS services and solutions.
- Led and participated in numerous successful database migration projects, showcasing hands-on experience specifically in migrating databases from on-premises environments to AWS.
- Orchestrated end-to-end migration processes on AWS, actively managing and executing migration initiatives from planning to completion, accumulating over 5 years of proven experience in this pivotal role.
- Developed and maintained applications in Python, meeting business requirements and performance standards.
- Integrated OIDC token-based authentication, enhancing security and user experience.
- Spearheaded the setup and configuration of Kubernetes clusters, optimizing Ingress points for secure and efficient communication across microservices.
- Implemented monitoring and logging solutions to track Ingress traffic and identify potential bottlenecks, contributing to proactive issue resolution.
- Streamlined deployment and operational workflows through automation.
- Manage containerization (e.g., Docker) and orchestration (e.g., Kubernetes) for scalable model serving.
- Establish CI/CD pipelines to automate the process of testing, building, and deploying models whenever new updates or improvements are made.
- Developed comprehensive migration plans and strategies for moving HANA objects to AWS infrastructure, including Redshift, S3, Data Mesh, and Databricks, ensuring minimal downtime and maximum efficiency.
- Developed data transformation scripts and workflows using SQL, Python to cleanse, enrich, and transform HANA data for ingestion into AWS data lakes, warehouses, or analytics platforms.
- Implement model versioning to track different model iterations and facilitate rollback if needed.

- Use Infrastructure as Code (IaC) techniques to define and manage infrastructure resources as code.
- Monitored system metrics, query execution times, and resource utilization using AWS CloudWatch, Redshift Query Monitoring, and other monitoring tools to identify bottlenecks and performance issues proactively.
- Performed data validation and testing post-migration to ensure data integrity and accuracy, troubleshooting any issues that arose during the migration process.
- Manage data versioning to track changes in training and inference data to maintain reproducibility.

Cognizant Technology Services PVT LTD , Hyderabad - India

March 2018 to Aug2019

Client: Google

Role: DevOps Engineer

Roles & Responsibilities:

- Configuration of end-to-end Jenkins pipeline jobs for automating build from taking source code which is in GIT to deployment of artifacts and Docker containers on Nexus servers.
- Developed and implemented Software Release Management strategies for various applications according to the Agile process.
- Managed DNS using AWS Route 53 service and maintained secure zone for organization using security groups, network ACLs, Internet Gateways, NAT instances.
- Maintenance of existing shell scripts and writing new ones as per requirement
- Experienced in Creation and maintenance of content for the Ansible playbooks to automatically install packages on servers and implementation of Ansible modules based on customer and community requirements.
- Evolved new tools/methodologies to improve the existing processes.
- Wrote Declarative and scripted Jenkins file's (Pipeline as a code). Configured nightly builds for Integration testing.
- Taking care of SCM activities like branching, merging for all the releases in a year.
- Imposing best practices on branch creations/naming conventions.
- Prepare the deployment plan for the production team and share the implementation plan with L2 teams.
- Troubleshoot build and deployment issues.
- Created and managed cloud VMs with AWS EC2 Command line clients and AWS management console.
- Participating in daily scrum meetings to coordinate with the development team.
- Implemented CICD for the applications, which includes Java and PHP.
- Provided on-call support to the service delivery team, for production deployments.
- Ensured compliance with regulatory requirements and company policies throughout the migration process, implementing necessary security measures and data protection mechanisms.

Accenture PVT LTD ,Hyderabad - India

June 2016 to Feb 2018

Client: Uber

Role: DevOps Engineer
Roles & Responsibilities:

- Performed software configuration/release management activities for three different Java applications.
- Designed and implemented Continuous Integration (CI/CD) process and tools with approval from development and other affected teams.
- Defined processes to build and deliver software baselines for internal as well as external customers.
- Release Engineer for a team that involved different development teams and multiple simultaneous software releases and implemented Continuous Integration Process
- Installed and configured Jenkins for Automating Deployments and providing a complete automation solution.
- Built and Deployed SQL Database Projects
- Windows PowerShell experience for Active Directory Administration.
- Strong knowledge of Continuous Integration (CI) tools like , Jenkins, Bamboo, Kubernetes, , Sonar qube, Subversion, TFS, Team foundation server, and Nexus art factory.
- Patch management review via PowerShell script to discovered current patch status and deploy patches to affected systems, implemented Windows Update Services (WSUS) to schedule updates.
- Managed and maintained operating systems on servers (Web servers, Database servers & Mail servers)
- Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, DockerUtilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
- Implemented Ansible to manage all existing servers and automated build/configuration of new servers.
- Experience working with Bit bucket plugins in Jenkins for Private repositories.
- Configured TCP/IP for servers, workstations, and setup of complete network.