ANIL KRISHNA GODASU

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**PROFILE**

* With 9 years of experience in IT comprising of Designing, Development, Integration of DevOps tools, Build Automation, Configuration Management, Build/Release and Delivery Management, CI/CD.
* Involving cloud infrastructure services like (AWS, Azure, GCP) as well as Cloud Migration services using Cloud formation and Terraform templates.
* Have good understanding of cloud infrastructure management and handling services within the cloud like (Web apps, Application Service Environments, firewalls, load balancers, storage, monitoring, security, AD, DNS etc.)
* Experienced in both framework and Cloud Formation to automate AWS environment creation along with the ability to deploy on AWS, using build scripts (Boto3 and AWS CLI) and automate solutions using Shell and Python.
* Experience on AWS, focusing on high-availability, fault tolerance, and auto-scaling using Terraform templates. Along with (CI/CD) with AWS Lambda and AWS CodePipeline
* Experience in Infrastructure on AWS using IAM, API Gateway, CloudTrail, Cloud Watch, Amazon Simple Queue Service (Amazon SQS), AWS Kinesis, Lambda, NACL, Elastic Beanstalk, OPE, and CloudFormation.
* Design of Security Solutions for Enterprise Apps using AWS IAM, AWS parameter store, AWS Secrets Manager
* Designed and provisioned Virtual Network at AWS using VPC, Subnets, Network ACLs, Internet Gateway, Route Tables, NAT Gateways
* Implemented Blue-Green Deployment model using EC2 Auto scale Groups and Application Load Balancer
* Experience with asynchronous service-to-service communication used in serverless and microservices architectures. Messaging queue such as Rabbit MQ, Zero MQ.
* Hands on experience with Terraform API modules to manage infrastructure and publishing module to the Terraform registry Experience in working with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Developed and maintained ETL pipelines using Python and PySpark to process and transform large-scale data from various sources, optimizing data quality and performance.
* Utilized AWS native services such as S3, EC2, and DynamoDB to design and implement scalable and efficient data solutions, ensuring high availability and fault tolerance.
* Managed databases including Oracle, PostgreSQL, and Aurora, implementing data models and optimizing query performance for analytics and reporting purposes.
* Designed and implemented data engineering workflows using EMR, Redshift, and AWS Glue, enabling seamless data movement and transformation across different platforms.
* Implemented serverless architectures using AWS Lambda and Step Functions, resulting in cost-effective and responsive data processing workflows.
* Orchestrated containerized applications using ECS with Fargate, streamlining deployment processes and improving resource utilization.
* Designed, deployed, and managed enterprise-scale containerized applications using OpenShift Container Platform.
* Implemented CI/CD pipelines on OpenShift, streamlining the development and deployment processes for microservices.
* Utilized OpenShift’s advanced features like Operators, Service Mesh, and BuildConfigs to enhance application scalability and manageability.
* Collaborated with UI and Java development teams to integrate backend data solutions with front-end applications, enhancing user experience and data visualization.
* Assisted in Java-based projects using technologies like JSP, Angular, Spring, and Spring Boot, contributing to full-stack development efforts.
* Acquired and applied SAS knowledge to enhance data analysis capabilities, enabling more advanced insights and reporting.
* Supported DevOps practices by configuring and maintaining CI/CD pipelines with Jenkins and Bitbucket, automating build, test, and deployment processes.
* Implemented infrastructure as code (IaC) practices using GitLab, managing deployments to cloud environments.
* Designed and implemented CI/CD pipelines using GitLab CI/CD for automated testing, building, and deployment.
* Configured runners and used GitLab’s built-in CI/CD tools to streamline the software development lifecycle.
* Collaborated with cross-functional teams to define infrastructure as code using Terraform, UCD, and CloudFormation, ensuring consistent and reproducible environments.
* Implemented testing automation strategies, reducing manual testing efforts and improving software quality through automated testing frameworks.
* Expertise in using Ansible to set up a Continuous Delivery Pipeline. Deployed micro services, including provisioning AWS environments using Ansible Playbooks. Expertise in Ansible Playbook, YAML for Maintaining Roles Inventory Files and Groups Variables and Extensively worked on Jenkins.
* Developed advanced PowerShell scripts to automate system administration tasks, reducing manual effort and increasing efficiency.
* Implemented PowerShell DSC (Desired State Configuration) to enforce consistent configuration across multiple servers.
* Created custom PowerShell modules to extend functionality and reuse code across different projects.
* Expertise in App Containerization technology Docker, creating Docker images, Containers, Docker Registry to store images, cloud-based registry Docker Hub, Docker Swarm to manage containers.
* Developed and maintained Helm charts for deploying complex Kubernetes applications, ensuring consistency and ease of deployment.
* Customized Helm charts to meet specific application requirements, including environment-specific configurations and secrets management.
* Automated the deployment of microservices using Helm in conjunction with CI/CD tools like Jenkins and GitLab CI.
* Conducted reviews and optimizations of existing Helm charts to improve maintainability and performance.
* Hands-on experience in version control tools like Subversion, GIT, Perforce Version wherein experienced with tagging, branching on platforms like Linux/Windows and used Source code management client tools like, GIT Bash, GitHub, GIT-GUI and other CLI applications etc.
* Proficient with Shell, Bash, Python, PowerShell, YAML, Ruby scripting languages for automation and monitoring.
* Experienced in keeping up and looking at log archives using monitoring tools like Nagios, Splunk, CloudWatch, ELK Stack, Dynatrace, New Relic and AppDynamics.
* Developed custom Splunk dashboards for real-time monitoring and reporting, enabling data-driven decisions for IT operations and security teams.
* Writing complex Splunk queries using the Search Processing Language (SPL) to extract actionable insights from large datasets.
* Leveraged Splunk for security monitoring and incident detection, contributing to enhanced organizational security posture.
* Have successfully taken up roles which are usually performed by Platform Engineer, Automation Engineer and Monitoring.
* Expertise in LINUX/UNIX system builds, administration, Installations, Upgrades, Troubleshooting on different distributions such as Ubuntu, CentOS, RHEL 5.x/6.X/7. X. Expertise in creating Exception Group policies for Windows Server 2003/2008/2012R2 in AD domain.
* Expertise in implementation and maintenance of Apache HTTP, SMTP, DHCP, NFS, LDAP, DNS, FTP, Remote Access, Security Management Security troubleshooting skills. Deep understanding of Layer 7 protocols like HTTP, DHCP, DNS and SSL/TLS.



**TECHNICAL SKILLS**

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| **Cloud/AWS** | Compute - **EC2**, ECS, **ELB**, **Auto Scaling** |
| Serverless - **Lambda,** Step Functions**, Serverless Framework, Terraform** |
| Storage - **S3**, EBS, EFS, Glacier |
| Database - **DynamoDB**, **Aurora**, RDS, ElastiCache, Redshift |
| Networking - **VPC,** Route 53, Direct Connect |
| Analytics - **Kinesis**, **Elasticsearch**, EMR, Data Pipeline |
| Mobile - API Gateway, **SNS** |
| Dev Tooling & Management - **Cloud Formation, Cloud Watch, Code Deploy** |
| Security - Identity & Access Management (**IAM**), Cognito, AWS Guard Duty, AWS Inspector |
| App Services - **SQS**, SES |
| **Platforms** | **AWS**, Azure, GCP, Linux, Unix, Windows |
| **DevOps** | **Git**, **Jenkins**, Code Deploy, **Ansible**, JFrog **Artifactory**, CloudFormation, **Terraform**, **ELK** Stack, Docker, Kubernetes |
| **Agile** | **Service Now, Jira**, Slack, Discord |
| **Scripts** | **Python**, Shell, YMAL, JSON, Groovy, JavaScript, Java, C, C++ |
| **IDEs** | **PyCharm,** Eclipse, Visual Studio Code, Cloud9, Cloudshell |
| **Databases** | **DynamoDB, Elasticsearch**, MongoDB, Postgres, MySQL,Oracle, SQL Server |
| **Build Tools**  | **Maven,** Gradle |

**EMPLOYMENT HISTORY**

**Sr. Devops Engineer**, 08/2022 – Present

**State of Connecticut, CT**

**Responsibilities:**

* Provided support for the applications like AHCT(Access Health CT), ImpaCT, ConneCT, BIP and DSS(Connecticut Department of Social Services).
* Provided infrastructural support to various departments, including setting up virtual private clouds (VPCs), subnets, EC2, S3, RDS and IAM policies tailored to specific needs.
* Configured CloudStrike for advanced threat detection and response, enhancing security posture and protecting against cyber threats.
* Improved Active Directory (AD) replication health through automated processes using PowerShell scripts. This initiative enhanced the overall reliability and health of AD, reducing manual intervention and potential issues.
* Decommissioned McAfee antivirus solutions, replacing them with more effective and efficient security measures in AWS environment.
* Implemented monitoring solutions such as New Relic and CloudWatch to monitor performance, analyze metrics, and proactively detect issues, ensuring optimal performance and resource utilization.
* Collaborated with cross-functional teams to design and implement solutions that align with business goals and requirements.
* Infrastructure automation and configuration management using Terraform and ansible
* Created Terraform templates and modules for deployment of various applications across multiple environments to manage infrastructure
* Addressing day-to-day production system issues to keep business as usual activities functioning without interruption
* Involved in DevOps migration/automation processes for build and deploy systems.
* Created Amazon VPC in the scalable environment which provides advanced security features such as security groups and network access control lists to enable inbound and outbound filtering at the instance level and subnet level
* Created S3 buckets and managed policies for S3 buckets and Utilized S3 bucket and Glacier for Archival storage and backup on AWS
* Created AWS Multi-Factor Authentication (MFA) for instance RDP/SSH logon, worked with teams to lock down security groups
* Preformed the roles of a Platform engineers by creating an internal developer platform (IDP)
* Implemented AWS client API to interact with different services as Console configuration for AWS EC2
* Support Design and implementation of the continuous delivery pipeline, using continuous integration, continuous delivery and automated environment provisioning.
* Managed servers on AWS cloud platform using Chef as configuration management tools.
* Writing JSON templates for cloud formation and ruby scripts for cookbooks for automation through chef and contributing to our repository in Git
* Improved the virtualization for the servers using Docker for the test environments and worked in DevOps group running Jenkins in a Docker container with EC2 slaves in Amazon AWS cloud configuration.
* Configured the Weave Net such that it creates the Virtual networks which connects Docker Containers to multiple hosts.
* Demonstrated hands-on experience in deploying Helm charts using Terraform and Kubernetes, ensuring the efficient management and scaling of applications within containerized environments..
* Created a Swarm using Docker CLI to deploy the services to a Swarm and managed the Swarm behavior.
* Implemented the setup for master slave infrastructure to enhance the performance of Jenkins where the projects are the part of the release process and were written in groovy scripts.
* Monitored the deployment solutions, tools and technologies including Jenkins Nodes/Agent and configured various plugins for Jenkins to automate the workflow.
* Implemented Datadog for comprehensive infrastructure monitoring, including servers, databases, and cloud services, to maintain system health and uptime.
* Leveraged Datadog for security monitoring by tracking security events, auditing logs, and configuring anomaly detection rules.
* Automated monitoring tasks and extended Datadog’s capabilities by utilizing its REST API and writing custom scripts.
* Managed Docker containers and Kubernetes Clusters on the OpenShift platform. Ensured optimal performance, scalability, and ease of management for containerized applications.
* Configuring 'nginx' for proxy RESTful API, OCI and GCP, PaaS calls to microservices in Docker containers
* Worked on NoSQL database MongoDB Word Press to Replica setup and sharing.
* Implemented Atlassian Stash along with GIT to host GIT central repositories for source code across products & login audits for Security Compliance
* Performed code line GIT pushes(releases) to production and customer servers and developed & improved GIT push scripts.
* Worked with JIRA for creating Projects, assigning permissions to users and groups for the projects and created Mail handlers and notification Schemes for JIRA
* Automated setting up server infrastructure for the DevOps services, using Ansible, by writing shell and python scripts.

**AWS DevOps Engineer**, 10/2021 – 07/2022

**MD Think, MD**

**Responsibilities:**

* Provided support for the applications like MHBE, CJAMS, MORA, CSA (Maryland Health Benefits and Exchange, Child Juvenile services, Maryland Office for Refugees and Asylees, Community-supported agriculture) used by the people of Maryland
* Participated and worked with multiple teams and successfully migrated ECS applications to AWS EKS
* Setup multiple Kubernetes clusters running in various Amazon accounts and regions for the MDThink Platform to accommodate different state agencies
* Configured Jenkins pipelines with security tools (Veracode, SonarQube, JMeter, Docker bench Security etc.) to build and deploy Kubernetes PODS to multiple clusters
* Implemented and configured HPA on EKS for Auto scaling of Pods
* Configured multiple sidecar containers in EKS to pull application logs from app container, Splunk daemon, consul etc
* Worked on integrating New Relic with EKS for monitoring cluster metrics
* Provisioned Kubernetes Infrastructure using Terraform Enterprise
* Implemented Helm to deploy application Pods on Kubernetes
* Worked on integrating spinnaker with EKS
* Utilized AWS Beanstalk, Docker, and OpenShift for web application deployment. This multi-platform approach ensured flexibility and scalability in deploying applications, catering to the diverse needs of the organization.
* Integrated Prometheus and Grafana for monitoring the EKS cluster
* Configured Alert Manager on EKS to send notifications on slack channel
* Used web-based project management and issue tracking tool such as Redmine which allowed us to manage multiple projects and associated subprojects.
* Took ownership and worked with multiple teams for building end to end applications of different frameworks and provided support until Production Live
* Managed the ingestion of diverse data sources into Splunk, including syslogs, application logs, and network traffic, using forwarders and data inputs.
* Building web application environments, using AWS cloud infrastructure focusing on high availability, fault tolerance and auto-scaling of the instances
* Automating the AWS cloud infrastructure provisioning using Terraform Templates
* Managing AWS Infrastructure with AWS CLI and API

Build and Release Engineer, 10/2018 - 06/2021

APPENDIT AB, INDIA

* Setting up the automation environment for the Application team if necessary and helping them through the process of Build and Release automation and automated deployments across all environments using Udeploy and Jenkins
* Proposed and implemented several release processes to achieve consistent results and stabilities across environments Converting the ANT Build projects to Maven Build projects
* Experience in development of build scripts using Ant, Maven
* Administration/Maintenance experience of source control management systems, such as GIT.
* Managed Maven project dependencies by creating parent-child relationships between projects.
* Created Jenkins jobs and distributed load on Jenkins server by configuring Jenkins nodes, which will enable parallel builds.
* Performed automation of CI/CD pipeline in private cloud using Jenkins shared libraries and multibranch pipeline and automated the static code analysis through SonarQube in Jenkins pipeline for checking code quality. Also performed Unit testing.
* Setting up continuous integration and formal builds using Jenkins with Artifactory repository
* Build artifacts (war and ear) from Jfrog Arti factory are deployed into a Apache Tomcat app server using PowerShell Scripts
* Developed Automation script to trigger push to production from ServiceNow, invoke Build in Jenkins and deploy to target servers.
* Resolved update, merge and password authentication issues in Jenkins and Service Now.
* Set up customized monitoring with Nagios, PNP4Nagios Graphs for the legacy and new 6p environments
* Supported DNS infrastructure across Client environments.
* Administration of various flavors of Linux like RHEL, Centos and Unix servers (AIX) which included monitoring and troubleshooting of those servers on a day-to-day basis
* Installing RedHat Linux using kickstart and applying security policies for hardening the server based on the company policies.

Windows, Linux Admin, 06/2016 - 09/2018

KSK Energy ventures Pvt. Ltd., India

* Worked on Linux operating system, disk management and patch management configurations, on Linux instances in AWS.
* Worked on Installing Firmware Upgrades, kernel patches, systems configuration, system Performance tuning on Unix/Linux systems.
* Migrated the current Linux environment to AWS /RHEL Linux environment and used auto scaling features and involved in remediation and patching of Unix/Linux Servers.
* Installation, Configuration and Upgrade of Linux, Solaris, AIX, HP-UX Linux operating systems.
* Experience in patching with live upgrade/standard install cluster and applying firmware.
* Manage & support a large client base Windows 2000/2003/2008R2/2012 and 2016 in a multi domain/forest Active Directory of more than 3500 windows server on 24x7x365 basis in an enterprise infrastructure.
* Experience with VMware Virtualization using ESX hypervisor of vSphere 4.0.
* Configured the backups and recovery plans for Windows based servers using windows server backup utility.
* Configured Solaris Jumpstart Server, maintained Server 6.0, backup data of Servers using VERITAS Net Backup, maintained security of the Solaris Servers.
* Performance monitoring and Tuning using top, prstat, sar, vmsat, ps, iostat etc.
* Shell Scripting to automate tasks on Solaris and Linux and automated jobs using Crontob.
* Configuration of VERITAS Cluster Server, Service Guard from the scratch and maintained service group/packages for failover and redundancy purpose.
* Worked on cronolog in Linux servers for managing the logs of the Web Servers and performed automation using Shell and Perl Scripts.
* Worked on high performance applications in a clustered environment.
* Involved in Implementing and Administrating enterprise level data backup and recovery.
* Installed and configured file and Application servers running on Sun Servers.
* Configuring and maintaining network services such as LDAP, DNS, NIS, NFS, Web, Mail, FTP.
* Implementation of RAID 0/1/5 for creation of logical volumes using VERITAS Volume Manager in SAN Storage Area Environment.
* Troubleshooting and analysis of hardware and software failures for various servers (core dump and log file analysis).
* Worked with storage team to configure NAS.
* Managed Network Troubleshooting applications TCP/IP including Ethernet, IP addressing & Sub netting, routing.
* Provided 24x7 on call and remote support for UNIX Production Problems and responding to users’ tickets from Remedy.
* Worked on creating user accounts, user administration, local and global groups on Solaris platform.
* Created User Accounts and Network Shares. Configured SUN Workstations as Domain Clients.
* Administrated NFS, NIS, DHCP and DNS Samba services running on AIX, Sun Solaris and RHEL.
* Worked with storage team to configure EMC SAN, NAS and iSCSI configuration.
* Managed Users for AIX, Solaris, HP-UNIX and Linux Servers and assigned right to access network resources.

**EDUCATION**

**Bhagwant University**

*Bachelors in Nano Technology CGPA : 8.46/10.00* Ajmer, Rajasthan

**University of New Hampshire**

*Master’s in Information Technology GPA : 3.74/4.00* Manchester, New Hampshire