**Anil Kumar**

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**(618)409-5265**

**Devops Engineer**

**EDUCATION:** Bachelor’s in Electrical and Electronics Engineering, Acharya Nagarjuna University, AP, India (05/13)

Masters In Electrical Engineering, SIUE, IL, 2015

**CERTIFICATION:** AWS Certified Solutions Architect- Associate

Credential- <https://www.youracclaim.com/badges/c02ee067-4c7a-4d9e-a646-4f2815fe71e9/public_url>

**TECHNOLOGY:** Cloud: AWS, AZURE

Devops Tools: Ansible, Jenkins, Git, Code deploy, Code Pipeline, Code Commit

Containers: Docker, Kubernetes, AWS EKS

Operating systems: Linux, Ubuntu, Centos

Build Tools: Maven, Gradle, Nexus

Monitoring, Logging: Datadog, Grafana, Nagios, Prometheus, Splunk

Jira: AdaptivistScriptRunner for JIRA, Automation for Jira.

IaC: Terraform, Cloud Formation

Databases: MySQL’s server, Elastic Search, RDS, Postgres SQL

Languages: Python, Shell Scripting

**EXPERIENCE:**

06/23 – 12/23 Freddie Mac, Mclean, VA

**Senior DevOps Engineer**

# • JIRA development with Java and groovy scripting, written groovy scripts to configure workflows, post functions, triggers in JIRA.

# • Automated the release pipeline to achieve zero touch deployments using Jenkins, GIT.

# • Developed and integrated the deployment process in CI environment using Jenkins.

# • Initiated and troubleshoot Continuous Delivery builds in Jenkins via JIRA tickets.

# • Worked on integrating services like BitBucket, JIRA, Jenkins to create a deployment pipeline.

# • Configured Jenkins for doing the build in all the non-production and production environments.

# • Build regular jobs that are initiated using continuous integration tool Jenkins.

# • Coordinate/assist developers with establishing and applying appropriate branching, labelling/naming conventions using GIT source control.

# • Maintaining deployment process in code fresh CI/CD pipelines and monitoring the changes to dev environments.

# • Providing solutions to modify JIRA post functions, workflows, triggers, Validators according to the requirement.

# • Used Groovy extensively to integrate JIRA with Bitbucket and to run nightly jobs to fetch the running script runners in JIRA.

08/17 – 05/23 AT&T, Atlanta, GA

**Senior DevOps Engineer**

• Launched and configured Amazon EC2 cloud servers using AMI’s (Linux/Ubuntu) and configured the servers for specified applications.

* Installing, upgrading and configuring RedHat Linux 5.x, 6.x, 7.x using Gold Disk Image.

• Configured the Auto scaling and ELB groups in AWS to main high scalable and secure environment.

* Experience with Linux systems, virtualization in a large-scale environment, experience with Linux containers (LXC) and Docker.
* Worked on installing, configuring and managing Docker Containers, Docker Images for Web Servers and Applications and Implemented Docker -maven-plugin in maven pom to build Docker images for all microservices and later used Docker file to build the Docker images from java jar files.
* Creating Docker images from Centos Linux as per requirement of the product/service and storing those Docker images to the ECR or Nexus Repository.
* Working with different AWS resources like security groups, Network ACLs, Internet Gateways, and Elastic IPs to ensure a safe area for organization in AWS public cloud.
* Good understanding of monitoring tools like Cloud watch, Data Dog and Nagios.
* Used Ansible playbooks to setup Continuous delivery pipeline. Deployed micro services, including provisioning AWS environments using Ansible playbooks.
* Wrote Python code using Ansible python API to Automate Cloud Deployment Process.

• Launched DNS, Route 53, and AWS ELB and assigned AWS SSL Certificates to Servers.

* Designed and maintained infrastructure as code using Terraform, automating the provisioning of AWS resources, including AWS AppSync, Lambda functions, DynamoDB, and other services.
* Leveraged AWS Fargate and Amazon ECS to build scalable and cost-effective containerized applications, managing application deployment and scaling effortlessly.

• Experienced in Cloud watch, Elastic IP and managing AWS infrastructure, Security Groups on AWS.

* Handling deployments using Code pipeline and AWS code deployment for various deployment scenarios like Tomcat deployment, multiple applications deployment.

• Maintaining deployment process in code fresh CI/CD pipelines and monitoring the changes to dev environments.

* Experienced in AWS Code Commit, configuration,and Code deployment tools like Ansible, Chef, and Puppet.
* Design frontend and backend for Innovation Express(IX) application using React and nodejs.
* Design front end and backend of the applications using Python on Django Web Framework.
* Develop UI web applications using technologies such as Java Script, Ajax, jQuery.
* Deployed micro services, including provisioning AWS environments using Ansible Playbooks.
* Creation of Subnets and Route tables, Internet gateway, Virtual gateway.
* Designing and developing data warehouse and Redshift BI based solutions.

• Worked with Amazon RedShift for Business Intelligence and Data Warehousing.

• Involved in migration of on-perm servers to AWS by creating images for upload and deployment.

• Performed Diagnosis and resolved problems associated with DNS, DHCP, VPN, NFS, Apache, VPCs and AWS accounts.

• Designed AWS Cloud formation templates to create VPC architecture, EC2s, Subnets and NATS to meet high availability application and security parameters across multiple Availability Zones.

• Worked on Microsoft Azure (Public) Cloud to provide IaaS support to client. Create Virtual Machines through terraform Script and Azure Portal.

• Capture an image of a Virtual Machine. Attaching a Disk to a Virtual Machine. Manage and create Virtual Network and End Points in Azure Portal.

• Designed Network Security Groups (NSGs) to control inbound and outbound access to network interfaces (NICs), VMs and subnets.

• Analyzed, Strategized & Implemented Azure migration of Application & Databases to cloud.

07/16 – 07/17 Travel click, Schaumburg, IL

**AWS/Devops Engineer**

• Helped the development groups inside the organization to translate the system functionality to cloud design.

* Installed VMware servers and configured windows/Linux virtual machines for various applications.

• Implemented Organization DevOps strategy in various environment of Linux and windows servers by adopting cloud strategies based on Amazon Web Services.

• Managing AWS VPC (Virtual Private Cloud) environment with around 100+ Linux and Ubuntu instances across production and Dev environments.

• Worked on integrating services like GitHub, AWS Code Pipeline, Jenkins, and AWS Elastic Beanstalk to create a deployment pipeline.

• Involved in Linux System administration, OS upgrades, security patching, troubleshooting, and ensuring maximum performance and availability.

• Assisting the teams in creating the security groups to enable connectivity between various tiers of the application and to other supporting services such as SMTP, Jenkins, and Git etc.

* Developed Spark jobs on Databricks to perform tasks like data cleansing, data validation, standardization, and then applied transformations as per the use cases.
* Experience analyzing data from AWS data storages using Databricks for deriving insights using Spark cluster capabilities.

• Involved in designing and deploying a multitude application utilizing almost all the AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto scaling.

• Hands on experience on Networking in AWS, VPC and Data center to Cloud Connectivity, Security Groups, Route Tables and ACLs in AWS.

• Managed multiple AWS accounts with multiple VPCs for both production and non-production where primary objectives are automation, build out, integration, Security, and cost control.

• Built and maintained Solutions in AWS including EC2, Lambda, DynamoDB, RDS, and Cloud Front.

* Execute various MYSQL database queries from python using Python-MySQL connector and MySQL dB package.
* Create Python modules to extract/load asset data from the MySQL source database.
* Worked with AWS Code commit to securely import GIT code repositories.
* Automated the build and launch process of EC2 instances using Chef.

• Maintain security and compliance of AWS services like IAM, EC2 and Logging.

• Monitor the platform using a combination of different tools which include cloud watch, Data dog, Lambda, Nagios, and Elk Stack.

• Worked extensively with deployment services like Elastic Beanstalk, Lambda, OpsWorks and Cloud Formation.

•Worked with Kafka Admin team to setup Kafka cluster setup on the QA and production environments.

• Involved in Implementing EC2 backup strategies by creating EBS Snapshots and attaching the volumes to EC2s when needed.

01/14 – 06/16 Info Drive Systems, LLC., TX

**AWS/Devops Engineer**

• Involved in user interfaces creation using ColdFusion, HTML, CSS, JavaScript, Ajax, Thymeleaf.

• Analysis, design and system development with MS SQL, jQuery, JS, CF10.

• Involved in user interfaces creation using ColdFusion, ASP.NET.

• Created ColdFusion Components, Custom tags, sessions.

• Build regular jobs that are initiated using continuous integration tool Jenkins.

• Coordinate/assist developers with establishing and applying appropriate branching, labelling/naming conventions using GIT source control.

• Configured Docker container for branching purposes.

* Used Python library for interacting with JIRA via REST APIs.
* Managed GIT and Bitbucket repositories for branching, merging, and tagging.

• Configured Jenkins for doing the build in all the non-production and production environments. Worked extensively on CVS, Subversion as Version Control.

• Managed JIRA users and Created workflows, Issue types, fields in production

• Writing Application.cfc for global variables and code reusability.

• Developed the Web Services to call third party components.

• Conversion of CSS Files to SASS files in bootstrap.

• Expert in performance monitoring tools like Iaas, AWS cloud watch and stack driver.

• Regular Build jobs are initiated using the Continuous Integration tool with Jenkins.

**SUMMARY:** AWS Certified Solutions Architect with around 10 Years of experience in IT industry mainly on AWS and Build and Release management.

• Experience with AWS services (S3, EC2, ELB, EBS, Route53, VPC, auto scaling. Elastic Search etc.) and deployment services (Elastic Beanstalk, Lambda, Ops Works and Cloud Formation) and security practices (IAM, Cloud watch and Cloud trail).

* Build and release of Cloud based products containing Linux and Windows environments, using Powershell, TFS and Python scripting.
* Worked on Linux server virtualization by creating Linux VMs for server consolidations.
* Good understanding of Spark architecture with Databricks. Setting up AWS with Databricks, Manage clusters in Databricks.

• Experience in Linux Administration, Configuration Management, Continuous Integration, Continuous Deployment, Release Management and Cloud Implementations.

• Hands-on experience deploying and maintaining complex, multi-tiered application systems in VM and Docker images for enterprise customers

• Worked with deployment services (Elastic Beanstalk, Lambda, and Cloud Formation) and security practices IAM, Cloud watch and Cloud trail.

• Expertise in core AWS services S3, EC2, ELB, EBS, Route53, VPC, Auto scaling etc.

• Experience in installing, configuration and administering of DHCP, DNS, FTP and LVM.

• Experience in Utilize configuration management tools (Ansible, PowerShell DST, etc.).

• Setting up databases in AWS using RDS, storage using S3 buckets and configuring instance backups to S3 bucket.

•Strong experience in using build management tools like Maven, Gradle for the building of deployable artifacts (jar, war) from source code and used artifacts repository managers like Nexus for Maven builds.

• Hands on experience in Azure Development, worked on App services, Azure storage, Azure PostgreSQL Database, Virtual machines, Azure AD.

• Plan, implement, and maintain deployment solutions for the company.

• Knowledge of Kubernetes and Docker containers for hosting services via a micro services architecture.

• Experience with automation/configuration management using either Terraform, Ansible or an equivalent

• Experience in monitoring System/Application Logs of server using Splunk to detect Prod issues.

• Experience with DevOps, Systems Administration or QA Automation Engineering

• Develop policies, standards, guidelines, governance, and related guidance for both CI/CD operations

• Ability to code and script (AWS CLI scripts, UNIX shell scripts, Python) to automate the provisioning and maintenance of systems in a geographically distributed environment.

• Experience with DevOps, Systems Administration or QA Automation Engineering.

• Experience in programming/scripting with Bash, and Python.