

ANIL CHAVA
Sr. Cloud/Devops Engineer
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MCID: 990909139

PROFESSIONALSUMMARY

- Overall 7+ years of extensive experience in “Automating, configuring and deploying” instances on cloud environments and experience in the areas of “DevOps, CI/CD Pipeline, Build and release management and Linux/Windows Administration”.
- Expertise in Architecting and Implementing Azure Service Offering, such as Azure cloud services, Azure storage, IIS, **Azure Active Directory (AD)**, **Azure Resource Manager (ARM)**, **Blob Storage**, Azure VMs, SQL Database, Azure Functions, Azure Service Fabric, Azure Monitor, and Azure Service Bus.
- Hands on experience on Backup and restore **Azure services** and in Design and **configure Azure Virtual Networks (VNets)**, subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing, Azure cloud services, Blob storage, Active directory, Azure Service Bus, Cosmos DB.
- Experience in migrating on premise to Windows “**Azure**” using Azure Site Recovery and Azure backups and having good knowledge on Azure Fabric, Microservices in Azure
- Experience in Private Cloud and Hybrid cloud configurations, patterns, and practices in Windows Azure and SQL Azure and in Azure web and database deployments
- Experienced in AWS Cloud platform and its features which includes **EC2, S3, VPC, EBS, ELB, RDS,RDB, Elastic Beanstalk, DynamoDB, RedShift** and Route 53,EC2 AMI, EBS Cloud watch, AWS Config, and Auto-scaling, IAM
- Experienced in Amazon EC2 setting up instances and setting up security groups and databases in AWS using S3 bucket and configuring instance backups to S3 bucket
- Expertise in building **CI/CD** on AWS environment using AWS Code Commit, Code Build, Code Deploy and Code Pipeline and experience in using **AWS CloudFormation**, API Gateway, and **AWS Lambda** in automation and securing the infrastructure on AWS
- Implemented multiple CI/CD pipelines as part of DevOps role for on-premises and cloud-based software using Jenkins, Chef and AWS.
- Excellent working experience in the **software development life cycle (SDLC)**, project management, configuration and release management plan
- Automate provisioning and repetitive tasks using **Terraform** and Python, **Docker** container, Service Orchestration
- Supported API development team in creating “**Ansible playbooks**” for deploying, integrating and monitoring their continuous integration environment
- Participated in configuring and monitoring distributed and multiple platform servers using **Puppet**. Used Puppet server and workstation to manage and configure nodes
- Extensively worked with Jenkins as Continuous Integration / Continuous Deployment Tool and strong experience with integration of Ant and Maven Build Frameworks.
- Research and implemented new tools such as **Kubernetes** with **Docker** to assist with auto-scaling, continuous integration, rolling updates with no downtime
- Experience writing **Ruby, Python, Shell (Bash), Perl and Batch/PowerShell** scripts to automate the deployments
- Deployed and configured Chef Server and Chef Solo including bootstrapping of chef client nodes for provisioning; Created roles, cookbooks, recipes, and data bags for server configuration, deployment, and app stack build outs
- Managed On-site OS/Applications/Services/Packages using Chef as well as AWS **for EC2/S3/Route53 and ELB** with Chef Cookbooks.
- Creating and Managing Virtual Machines in Windows Azure and setting up communication with the help of endpoints
- Creating fully automated CI build and deployment infrastructure and processes for multiple projects using Docker, Jenkins, **VMWare**, RHEL, Open Shift, **Kubernetes, Artifactory, Ansible & GIT** Lab

- Expertise in scripting for automation, and monitoring using Shell, Bash, **PowerShell**, PHP, Java, Python, YAML, Ruby & Perl scripts
- Have very strong expertise knowledge and experience with PowerShell, Perl and **Groovy scripting** in automating many Jenkins, **UrbanCode Deploy** activities with cloud foundry.
- Managed **GIT** version control system in creating branches, tags and merge.
- Hands on experience in configuring and maintaining various Webservers like **Apache** and App servers like **Tomcat, Tcserver, Weblogic, JBoss**.
- Expertise in Querying RDBMS and NoSQL such as Oracle, MYSQL, Dynamo DB, Mango DB and PostgreSQL by using SQL for Data integrity.
- Experience in designing for high availability, building multi-zone and multi-region architectures, and designing across appropriate SQL and NoSQL data layer technologies

SKILLS

Operating System:	UNIX, Linux, Windows, Solaris, Ubuntu
Containerization Tools:	Docker, Kubernetes, Mesos, Openshift
Configuration management:	Chef, Puppet, Ansible
CI/CD Tools:	Jenkins, Hudson, Bamboo
Build Tools:	ANT, Maven, MS Build
Cloud platforms:	Microsoft Azure, Amazon Web Services (AWS), Google Cloud Platform (GCP), Open stack, PCF
Application/Web Servers:	Oracle Web logic Server 11g, Apache Tomcat, Oracle Application Server 10g BEA WebLogic 8.1/9.2, WebSphere, JBoss, Tomcat, IIS
Scripting & Programming Languages:	Python, Shell Scripting, Bash, Perl, Ruby, Groovy, PowerShell, YAML, HTML, PHP, Java/J2EE, .Net, JSON, NodeJS, GO
Logging & Monitoring Tools	SPLUNK, ELK, Nagios, Datadog, AppDynamics
Security Scanning Tools:	Fortify, NexusIQ, Blackduck, SonarQube, JFrog Xray
Artifact Repository:	JFrog, Nexus Repository Manager (NXRM)
Infrastructure as a code:	Terraform, Cloud Formation Templates, ARM Templates
Virtualization Platforms:	Virtual Box, Vagrant, VMware, vSphere Versions
Databases:	Oracle 10g/11g, Mongo DB, MySQL, SQL, NOSQL

PROFESSIONAL EXPERIENCE

Client: Lincoln Financial group, Radnor, PA

July 2019 - Present

Role: Sr. Cloud/DevOps Engineer

Responsibilities:

- Created **Azure** Automation Assets, Graphical runbooks, PowerShell runbooks that will automate specific tasks
- Deployed Azure AD Connect, configuring ADFS authentication flow, ADFS installation using Azure AD Connect
- Hands on experience in **Azure Development, worked on Azure web application, App services, Azure storage, Azure SQL Database, Virtual machines, Fabric controller, Azure AD, Azure search, and notification hub**
- Deployed Azure **IaaS virtual machines (VMs)** and Cloud services (PaaS role instances) into secure VNets with Azure Internal Load Balancer and subnets
- Provided support for Azure Cloud servers environment for project Code Deployments and Oracle DB installations and maintenance
- Created Azure **PowerShell script** for APIM backup and restore operations. Created several SQL scripts as part of bug fixes to provide immediate solutions for some of the common issues
- Managed Azure Infrastructure Azure Web Roles, Worker Roles, VM Role, Azure SQL, Azure Storage, Azure AD Licenses, Virtual Machine Backup and Recover from a Recovery Services Vault using Azure PowerShell and Azure Portal
- Implemented storage related to blobs/Azure files, SQL/Recovery Services, Managing the storage access, Implement, Integrate Azure Active Directory with AD Migration, Configure Application Access Panel

- **Terraform** to create, change and improve production infrastructure and maintained versioning infrastructure safely and efficiently by custom in-house solutions
- Create and maintain highly scalable and fault tolerant multi-tier AWS and Azure environments spanning across multiple availability zones using **Terraform** and **CloudFormation**
- Created **Docker** images using a Docker file, worked on Docker container snapshots, removing images and managing Docker volumes
- Written scripts to containerize using Dockers and orchestrate it using **Kubernetes** & Configured the services using modern DevOps tools, like **Ansible**
- Using **Ansible** as an automation engine for cloud provisioning, configuration management, application deployment, intra service orchestration and multi-tier deployments.
- Communication with team members for both Ansible Core and Ansible Tower teams to clarify requirements and overcome obstacles
- Implementing **Kubernetes** to manage containerized applications using its nodes, Config Maps, Selector, Services and deployed application containers as Pods
- Created private cloud using **Kubernetes** that supports DEV, TEST, and PROD environments
- Used Jenkins and pipelines to drive all **microservices** builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes
- Used Jenkins as Continuous integration tool: creating new jobs, managing required plugins, configuring the jobs selecting required source code management tool, build trigger, build system and post build actions, scheduled builds, notifying the build reports etc
- Configured **Jenkins** Monitor, List and Build views to display the status and progress of selected jobs with build version information
- Researched and implemented code coverage and unit test plug-ins with **Maven/Jenkins**
- Worked on google cloud platform (**GCP**) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager
- Maintain Chef Servers and management application that can use Service Now (CI) data to bring computers into a desired state by managing files, services, or packages installed on physical or virtual machines
- Provide general support, administration and maintenance of the ServiceNow platform, including ITSM, ITFM and other ServiceNow applications
- Automating the Build Infrastructure for deploying services in dockerized environment using Jenkins, SonarQube, Gradle, Groovy, Job DSL, Docker and Splunk
- Created and maintained build related scripts developed in ANT, Ruby and Python and worked with development team to migrate Ant scripts to **Maven**
- Implemented Unix/Linux Shell Scripting, Bash, Perl, and Python for monitoring and to automate the build and deployment process
- Worked with Relational (PL/SQL, Oracle), Non-relational databases (Mongo), and document-oriented databases (**MongoDB**) and Oracle RAC
- Developed Perl and shell scripts for automation of the build and release process. Developed automation scripting in Python to deploy some applications

Client: Pointsbet, Denver, CO

Nov 2018 – July 2019

Role: Infrastructure /DevOps Engineer

Responsibilities:

- Experienced in **AWS** Cloud platform and its features which includes **EC2, S3, VPC, EBS, ELB, RDS, RDB, Elastic Beanstalk, DynamoDB, RedShift and Route 53, EC2 AMI, EBS Cloud watch, AWS Config, and Auto-scaling, IAM**
- Deployed LAMP based applications in AWS environment, including provisioning MYSQL -RDS and establish connectivity between EC2instance and MySQL-RDS via security groups
- Provisioned **AWS S3** buckets for backup of the application and sync this content with remaining s3 backups, by creating entry for AWS S3 SYNC in crontab
- Created customized AMIs based on already existing **AWS EC2** instances by using create image functionality, hence using this snapshot for disaster recovery
- Architected and led migration to AWS and Implemented **AWS Redshift** for an automated media buying network including integration of Tableau for data visualizations

- Implemented and designed AWS virtual servers by **Ansible** roles to ensure deployment of web applications
- Used Ansible as an automation engine for cloud provisioning, configuration management, application deployment, intra service orchestration and multi-tier deployments
- Orchestrated and migrated CI/CD processes using Cloud Formation and **Terraform** Templates and Dockerized the infrastructure, which was setup in Vagrant, AWS and VPCs
- Used **Kubernetes** to deploy scale, load balance, scale and manage Docker containers with multiple namespace versions
- Created **Docker** images using a Docker file, worked on Docker container snapshots, removing images and managing Docker volumes
- Implemented a Continuous Delivery pipeline with Docker, Jenkins and **GitHub** and AWS AMI's, whenever a new GitHub branch gets started, Jenkins, our Continuous Integration server, automatically attempts to build a new Docker container from it, The Docker container leverages Linux containers and has the AMI baked in. Converted our staging and Production environment from a handful AMI's to a single bare metal host running Docker
- Created Clusters using Kubernetes and worked on creating many pods, replication controllers, services, deployments, labels, health checks and ingress by writing YAML files
- Worked with **RedHat OpenShift** Container Platform for Docker and Kubernetes, used Kubernetes to manage containerized applications using its nodes, ConfigMaps, node-selector, Services and deployed application containers as Pods
- Managed Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages
- Provisioned monitoring, metrics, and logging systems on AWS using tools such as SPLUNK, ELK, Sensu
- Managed Amazon Web Services (AWS) infrastructure with automation and configuration management tools Chef, and Ansible
- Worked on writing Jenkins build a pipeline with **Gradle script** and **Groovy DSL (Domain Specific Language)** and integrating **ANT/MAVEN** build scripts with Gradle for the sole purpose of continuous build
- Implemented multiple high-performance MongoDB replica sets on EC2 with robust reliability
- Implemented Jenkins Code Deploy plugin to deploy to AWS and used to automate the build process and deploy the application to Tomcat server
- Used Jenkins for Continuous Integration and deployment into Tomcat Application Server
- Extensive experience in designing and implementation of continuous integration, continuous delivery, continuous deployment through Jenkins.
- **Splunk** and Cloud Watch in the Amazon Web Services (AWS) environment
- Used CloudFront to deliver content from AWS edge locations to users, allowing for further reduction of load on front-end servers
- Configured an **AWS Virtual Private Cloud (VPC)** and Data Base subnet group for isolation of resources within AWS RDS
- Used Amazon Route53 to manage DNS zones and also give public DNS names to elastic load balancers ip's
- Used Amazon RDS Multi-AZ for automatic failover and high availability at the database tier for **MYSQL** workloads
- Set up Auto Scaling Groups based on memory and CPU to adapt to unforeseen spikes without having an outage or needing manual intervention
- Performed Branching, Tagging, Release Activities on Version Control (SVN, GIT)

Client: Conning, Hartford, CT

April 2017 – Nov 2018

Role: DevOps Engineer

Responsibilities:

- Created AWS Launch configurations based on customized AMI and use this launch configuration to configure auto scaling groups and Implemented AWS solutions using **EC2, S3, RDS, DynamoDB, Route53, EBS, Elastic Load Balancer, Auto scaling groups**
- Integrated AWS CloudWatch with AWS EC2 instances for monitoring the log files, store them and track metrics
- Created AWS S3 buckets, performed folder management in each bucket, Managed cloud trail logs and objects within each bucket
- Managing **Amazon Web Services (AWS)** infrastructure with automation and configuration management tools such as Udeploy, Puppet or custom-built designing cloud-hosted solutions, specific AWS product suite experience

- Lead many critical on-prem data migrations to AWS cloud, assisting the performance tuning and providing a successful path towards **Redshift** Cluster and RDS DB engines
- Well Versed with Configuring Access for inbound and outbound traffic RDS DB services, **DynamoDB** tables, EBS volumes to set alarms for notifications or automated actions
- Created Highly Available Environments using Auto-Scaling, Load Balancers, and SQS
- Administered and engineered **Jenkins** for managing weekly Build, Test and Deploy chain, GIT
- Integration of Automated Build with Deployment Pipeline. Currently installed Chef Server and clients to pick up the Build from Jenkins repository and deploy in target environments (Integration, QA, and Production)
- Worked **ChefDK** which takes care of creating cookbooks and recipes. Used **Ansible** for configuring and managing multi-node configuration management over SSH and **PowerShell**
- Experience supporting Chef Environment with 200+ servers and involved in developing manifests
- Implemented Chef Recipes for Deployment on build on internal Data Centre Servers. Also re-used and modified same Chef Recipes to create a Deployment directly into Amazon EC2 instances
- Managed **Ubuntu** Linux and Windows virtual servers on AWS EC2 using Open-Source Chef Server
- Proficient in writing Cloud Formation Templates (CFT) in YAML and JSON format to build the AWS services with the paradigm of Infrastructure as a Code
- Set up and built AWS infrastructure with various services available by writing cloud formation templates in json
- Managed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT and Route53 to ensure successful deployment of Web applications and database templates
- Developed Cloud Formation scripts to build on demand EC2 instance formation
- Automated the cloud deployments using chef, python (boto& fabric) and AWS Cloud Formation Templates
- Created a microservice environment on the cloud by deploying services as docker containers. We used Amazon ECS as a container
- Experience with monitoring and logging tools like **Dynatrace**, **SPLUNK**
- Setting up SPLUNK monitoring on Linux and windows systems, monitored and tracked SPLUNK performance problems, administrations and open tickets with SPLUNK
- Management service to run microservices on a managed cluster of EC2 instances. Implemented Amazon API Gateway to manage, as an entry point for all the API's
- Actively involved in the DevOps streamlining Process through Jenkins CI and CD Release Automation

Client: Inside Connect Cable, Louisville, KY

Feb 2016 - April 2017

Role: Java/Automation Engineer

Responsibilities:

- Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in Jenkins to move from one environment to other environments
- Perform Life Cycle Management for ESXi hosts. Worked on capacity planning and management of Virtual machines in the VMware environment
- Worked on installation and configuration of DevOps Automation Tool **Puppet**
- Installed/Configured/Managed Puppet Master/Agent. Wrote custom Modules and Manifests, downloaded pre-written modules from puppet-forge. Upgradation or Migration of Puppet Community and Enterprise
- Installed Jenkins/Plugins for GIT Repository, Setup SCM Polling for Immediate Build with Maven and Maven Repository (Nexus Artifactory) and Deployed Apps using custom modules through Puppet
- Experience in writing and Distributing modules to puppet agents
- Implemented a Continuous Delivery pipeline with Docker, **Jenkins and GitHub and AWS AMI's**. Implemented new projects builds framework using Jenkins & maven as build framework tools
- Worked on Integrated **JIRA** with subversion and Jenkins to automate the weekly build process
- Implemented the setup for Master slave architecture to improve the Performance of Jenkins
- Used the Eclipse as IDE, configured and deployed the application onto WebLogic application server using Maven build scripts to automate the build and deployment process
- Involved in a module where the development for front end included service side technology like **NodeJS**
- Designed a single page application with **AngularJS**
- Performed User Interface Design and coding using Java, Spring Boot framework and web technologies

- Streamlined the server implementation by moving to **JSON** and **MongoDB** as the backend data model
- Utilized **Cassandra**, NOSQL database management system for keeping user generated data by upgrading of Couch base and Cassandra cluster
- Used **Java Message Service (JMS)** for reliable and Asynchronous exchange of important information for status reports along with Apache Kafka as Queue Server
- Created SQL queries, PL/SQL Stored Procedures, Functions for the Database layer by studying the required business objects and validating them with Stored Procedures using DB2. Also used JPA with Hibernate provider
- Used Spring Data with JPA Repository and JPA, Hibernate annotations for handling ORM CRUD operations
- Used Junit for unit testing & Jenkins for automated build and deploy process

Client: PRC Group, Hyderabad, India

Oct 2014 - Dec 2015

Role: Junior Java Developer

Responsibilities:

- Involved in gathering business requirements directly from the end user and prepared System impact analysis document (SIA) and functionality documents
- Build **Microservices** for the delivery of software products across the enterprise
- Responsible for the full software development life cycle (SDLC) using **Agile Methodology**, participated in Daily stand-up meetings with Scrum Master, communicated with testers and resolved tickets
- Developed RESTful Microservices using Spring **REST** and **MVC** and used Swagger for manual testing and documentation of Microservices
- Created a platform as infrastructure with **AWS (EC2, RDS, ELB)** used Jenkins to run the automated deployments
- Implemented a continuous Delivery pipeline with **Dockers, Jenkins and GitHub and AWS AMI**
- Developed unit and integration tests for existing Micro services using **JUnit, Mockito and Dockers**
- Designing and deploying enterprise-wide scalable operations on AWS
- Performed unit testing of applications by developing and applying test cases in JUnit
- Used **GIT** as a version control

Client: Choice Software Ltd, Hyderabad, India

Aug 2013 - Oct 2014

Role: System Engineer

Responsibilities:

- Interacted with various business team members to gather and documented the requirements
- Level 2 Support for Applications Running on Production servers and ensure high availability to internal and external users/clients by responding to application related issues or requests
- Checking system and application logs for errors in various services and to troubleshoot the same
- Participate in **Enterprise Change Management process (ECM)** to install/upgrade patches for different applications running on production and test servers
- Responsible for configuring and connecting to SSH through SSH clients like **Putty**
- Created and modified users and groups with SUDO permission.
- Responsible for setting up CRON jobs scripts on production servers
- Monitoring the server for CPU usage, Memory usage, Network usage and disk utilization using netstat utilities.
- Running SQL update queries to fix production issues
- Interacting with Application developers while working on a production fix
- Testing new applications that are in pipeline which will replace the existing applications and to create documents and establish a process to do future troubleshooting
- Performing Linux System Administration routines, swap partition and file system changes, system booting and recovery

Education

Master of Science, Informational Technology Management

Campbellsville University, Campbellsville, KY

Bachelor of Technology, Electronics and Communication Engineering

Velagapudi Ramakrishna Siddhartha Engineering College, India