

# GANDHI G

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## PROFESSIONAL SUMMARY

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- 6+ years in IT Profession with proven experience in **Linux Administration**, with a major focus in the areas of **AWS, AZURE, OpenStack, CI/CD Pipeline**, and an **Amazon certified Solutions Architect**.
- Experience with structuring, arranging and sending arrangements on Microsoft Azure utilizing **ARM Templates, AZURE PowerShell Module** and, **Azure CLI** concentrating on high-accessibility and auto-scaling.
- Proficiently experienced With Amazon **AWS** Cloud Administration which includes services like: **EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, Redshift, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, NACL, Security Groups**.
- Worked on **AWS DevOps** tools like **AWS Code-Pipeline** to build a continuous integration or continuous delivery (**CI/CD**) workflow using **AWS Code-Build, AWS Code-Deploy**, and worked with many other **AWS** tools to Build and deploy a microservices architecture using **ECS** or **AWS Lambda**.
- Expertise with security identity tools like **IAM, Certificate manager, Key Management Systems (KMS)**, creating **Security groups, AWS shield** for **DDoS protection**.
- Experience in various **Azure** Services like **Compute (Web Roles, Worker Roles), Caching, SQL Azure, NoSQL, Storage and Network Services, Azure Active Directory, Internet of Things (IoT), Azure Monitoring, API Management, Scheduling, Autoscaling, Azure Identity & Access Management, Data Factory, PowerShell Automation** and other **Azure** Services.
- Experience in deploying a Dynamics **NAV** database that is exported as a data-tier application (**DAC**) .bacp file into **Azure SQL** using **SQL Server Manager**.
- Strong Windows **Azure** experience dedicated to the .NET stack of technologies, proficient in IT operations including in Windows Azure deployments, incident management, production support for all types of Azure components, IIS/SQL server, IT administration and maintenance, Project Management, PowerShell scripting, live site incident management, ERP and E-commerce applications.
- Experienced in both framework and **CloudFormation** to automate AWS environment creation along with the ability to deployment on AWS, using build scripts (**AWS CLI**) and automate solutions using **Shell** and **Python**.
- Experience with **Pivotal Cloud Foundry, OpenShift, Kubernetes** architecture and design, troubleshooting issues with platform components (PCF), and developing global or multi-regional deployment models and patterns for large-scale developments and deployments on Cloud Foundry, OpenShift and Kubernetes.
- 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.
- Experience in developing APIs using **Kubernetes** to manage and specify the copies of the containers to run the actual servers in the cloud environment. Scheduled, deployed and managed container replicas onto a node cluster using **Kubernetes**.
- Good at scripting languages like **Python, Ruby, Perl, Bash** and configuration management tools like **Chef, Puppet, Ansible** and **CF Engine**.

- Experience in installing, configuring, supporting and **troubleshooting Unix/Linux** Networking services and protocols like **NIS, NIS+, OSPF, LDAP, DNS, NFS, DHCP, NAS, FTP, SSH** and **SAMBA**.
- Experience in working on version control systems like **Subversion (SVN)** and **GIT**, clear case, **Stash** used Source code management client tools like **Visual SVN, Tortoise SVN, Stash, Source Tree, GIT Bash, GitHub, GIT GUI** and other command line applications.
- Proficient in building deployable Artifacts (War, Jar, Ear, Zip, Tar) from source code and maintained by using **Maven (Pom.xml), Ant (Build.xml)** and **Gradle (Build.gradle)**. And worked with Groovy Scripts to Automate Configuration in **Jenkins**.
- Used **Jenkins** as Code Deploy plugin to deploy to **AWS** and also extensively worked on other tools like **Bamboo, Hudson, and Cruise Control** for continuous integration and for all end to end automation functions with all build and deployments.
- Strong Experience on **Ansible Playbooks, Inventory files, Vault feature** to configure the servers, deploy software, encryption of data file & orchestrate continuous deployments or zero downtime rolling updates. Worked on **Ansible Tower** which provides an easy-to-use dashboard, & role-based access control.
- Setup **SCM Polling** for Immediate Builds with Maven and **Maven Repository (Nexus Artifactory)** by installing Jenkins Plugins for **GIT Repository**.
- Defined several **Terraform** modules for building, changing, and versioning of Infrastructure and wrote templates for **AWS Infrastructure** as a code using **Terraform** to build staging and production environments.
- Skilled in monitoring servers using **Nagios, Splunk, ELK, Dynatrace, Datadog, AppDynamics, New Relic**, and **CloudWatch** for Resource, Network, and Log Trace Monitoring, created geo-mapping visualizations using **Kibana** in integration with **AWS CloudWatch** and **Lambda**. Evaluated system logs using **ELK** software stack and visualizing them using **Nginx**.
- Extensively involved in setting up **JIRA** as defect tracking system and configured various workflows, customizing **JIRA** and Confluence to take the forefront of the new systems.

## COMPETENCIES

CI/CD	Jenkins, Hudson, Bamboo, Terraform, Cloud Formation Maven, Ant, Gradle
Scripting	Bash/Shell, Ruby, Python, Perl, PHP, PowerShell, JSON, YAML, HTML5, JavaScript
Version Control	GIT, Bitbucket, Azure Repos, SVN
Infrastructure-as-code	ARM Templates, Cloud Formation
Virtual Machines	Docker, Virtual Box, IIS, Windows Server
Web Servers	Nginx, Apache HTTP server, Redis, IIS, Tomcat
Application Servers	JBoss 4.x/5.x, Apache Tomcat 5.x/7.x, Web Sphere, Web Logic
Monitoring Tools	Nagios, Splunk, ELK, Zabbix, PagerDuty, Cloud Watch, New Relic
Logging Tools	Elastic Search, Fluentd, Kubetail, Stackdriver
Networking/Protocol	TCP/IP, NIS, NFS, DNS, DHCP, Cisco Routers/Switches, WAN, SMTP, LAN, FTP/TFTP
Container Tools	Kubernetes, Docker, Docker swarm, Open shift
OS	Windows Server 2012 r2/server edition, Mac OS

Linux Distributions	Ubuntu, Debian, CentOS, Red Hat Linux
Cloud Services	AWS, GCP, Microsoft AZURE, PCF, OpenStack
AWS Services	EC2, S3, SNS, SES, CloudFront, CloudWatch, Lambda, RDS, Route53, IAM, ACM Cloud Formation, Cloud Trail, VPC
GCP Services	Kubernetes Engine, GCR, Compute Engine, IAM, Driver logging, Storage
AZURE Services	Vms, App-service, Keyvault, Storage Account, Classic-Cloudservices, Container Instances, ACR, Active Directory.
Database	My SQL, MS SQL, Dynamo DB, Mongo DB, Cassandra, AWS RDS
Configuration Management	Chef, Puppet, Ansible

## CERTIFICATIONS

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AWS Certified Solutions Architect- Associate.

## PROFESSIONAL EXPERIENCE

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*CLIENT: InComm, Atlanta, Georgia.*

*Dec 2019 - present*

*Role: Sr. Cloud DevOps Engineer*

- Created **AWS Cloud Formation** templates to create custom-sized **VPC**, Subnets, **EC2** instances, **ELB**, **Security groups** and **Auto Scaling Groups**. Worked on tagging standard for proper identification and ownership of EC2 instances and other **AWS Services** like **Cloud Front**, **Cloud watch**, **RDS**, **S3**, **Route53**, **SNS**, **SQS**, **Cloud Trail**.
- Implemented **AWS Beanstalk** for deploying and scaling web applications and services with **Java**, **.NET**, **PHP**, **Python** and to perform health checks. Integrated **AWS Lambda** with **AWS DynamoDB** to automatically respond to events in **DynamoDB** streams.
- Configuring, automation and maintaining build and deployment **CI/CD** tools **git/ git-Lab**, **Jenkins**, **Build Forge**, **Docker registry/daemon**, **Nexus** and **JIRA** for Multi-Environment (Local/POC/NON-PROD/PROD) with high degrees of standardization for both infrastructure and application stack automation in AWS cloud platform. Orchestrating CI/CD processes. CI/CD tools Dockerized and infrastructure setup in **Vagrant**, **AWS** and **VPCs**.
- Created **Python** scripts to totally automate **AWS** services which includes web servers, **ELB**, **Cloud Front distribution**, **RDS**, **EC2** and **RDS security groups**, **S3** bucket and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
- Configured EC2 instances by writing **Terraform templates**, **Chef cookbooks**, **recipes** and pushed them on to **Chef server**.
- Converted existing **AWS infrastructure to server-less architecture** (AWS Lambda) and deployed it via **Terraform**. Migrated data from Datacenters and on-premises to Cloud using AWS Import/Export **Snowball service**.
- Automating the Build Infrastructure for deploying services in dockerized environment using **Jenkins**, **SonarQube**, **Maven**, **Groovy**, **Job DSL**, **Docker** and **Splunk**.
- Worked on load balancing and monitoring with **Nagios** and **Splunk**, **ELK** (Elasticsearch, Logstash, Kibana).

- Orchestration of **Docker** images and Containers using **Kubernetes** by creating whole master and node.
- Implemented cluster services using **Docker** and **Kubernetes** to manage local deployments in Kubernetes by building a self-hosted Kubernetes cluster using **Terraform** and **Ansible** in deploying application containers.
- Building/Maintaining **Docker** container clusters managed by **Kubernetes Linux, Bash, GIT, Docker**, on **GCP**. Utilized **Kubernetes** and docker for the runtime environment of the **CI/CD** system to build, test deploy.
- Utilized **Chef** with **AWS CloudFormation** to build and maintain Highly Available secure multi-zone AWS cloud Infrastructure.
- Configured **VPC Peering** and Cross-Account Access between dev, QA and prod VPC's.
- Configured **VPC Endpoints** to access objects in **S3** buckets using an internal connection instead of routing traffic through the internet.
- Provisioned **Chef** server onto AWS via **OpsWork** and this stack handles chef operations, backups, restorations, and software upgrade.
- Implemented a centralized logging system using log stash configured as an **ELK** stack (**Elastic Search, Log stash, and Kibana**) to monitor **system logs, VPC Flow logs, Cloud Trail Events**, changes in S3.
- Developed **Python, Perl** and **shell/bash** scripts for TC Server/**Tomcat** web application servers and automation of the build and release process and to automate certain processes for the smooth process of a build tool like **Maven**.

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*CLIENT: Sempra Energy, San Diego, California, United States.*

*Dec 2018 - July 2019*

*Role: Sr. DevOps Engineer*

- Configured **Azure** cloud services, **Azure storage, Azure active directory, Azure Service Bus**. Created and managed **Azure AD** tenants and configured application integration with **Azure AD**.
- Provisioned **Azure** resources like **SQL Database, Web App, Storage Account, Redis Cache, Virtual Machine, IoT Hub**, and **HDInsight** using **Azure Resource Manager (ARM)**.
- **Azure PaaS** Solutions like **Azure Web Apps, Redis Cache, Application insights Azure Server less Functions, Azure Stream Analytics, SQL Azure and Storage**.
- Designed capacity and architecture plan to create the **Azure** Cloud environment to host migrated **IaaS VMs** and **PaaS role** instances for refactored applications and databases. Deployed infrastructure as a code (Ioc) applications using **ARM Templates (JSON)**.
- Configured and deployed **Azure Automation Scripts** for a multitude of applications utilizing the **Azure stack** for **Compute, Web and Mobile, Blobs, Resource Groups, Azure Data Lake, HDInsight Clusters, Azure Data Factory, Azure SQL, Cloud Services**, and **ARM Services** and utilities focusing on Automation.
- Involved in Backing up and Recovering an **Azure** Virtual Machine from a Recovery Services Vault and **Azure Site Recovery Services**. Having a good knowledge of Understanding on Express Route, Network Security Groups, Storage Accounts, and Storage Explorer and **Azure Architecture**.
- Played a crucial role in **Migrating** the Legacy application into **GCP Platform** and Responsible for Deploying Artifacts in **the GCP** platform by using **Packer**.
- Built **Docker** Container Scaling functionality utilizing custom scripts to analyze metrics and trigger scaling operations.
- Created **Docker images** using a **Docker File**, worked on **Docker container** snapshots, removing images and managing **Docker Volumes**. Worked on creating Docker Slave Nodes for Jenkins using custom Docker Images.

- Configured **Kubernetes** Replication controllers to allow multiple pods such as **Jenkins** master server in multiple minions. Managed Kubernetes charts using **Helm**, managed Kubernetes manifest files and created reproducible builds of the **Kubernetes** application.
- Implemented Office 365 and Azure Active Directory for single sign on, authentication, authorization and Azure Role-based Access Control (**RBAC**).
- Implemented cluster services using **Docker** and **Kubernetes** to manage local deployments in Kubernetes by building a self-hosted Kubernetes cluster using **Terraform** and **Ansible** and deploying application containers.
- Written **Ansible Playbooks** with **Python SSH** as the Wrapper to **Manage Configurations** of **Azure Nodes** and Test Playbooks on **Azure instances** using **Python SDK** and Automated various infrastructure activities like continuous deployment, application server setup, Stack monitoring using **Ansible playbooks**.
- Developed an automated deployment tool for dev, QA and production environments using **Ansible**. Allows new services to be deployed and released simply by developers including an **Ansible playbook**.
- Collaborated with numerous Agile Development Team to effectively regulate branching and tagging of code within a repository and utilized **Git**, **Bitbucket** and **team foundation server** (TFS) for codebase integrity maintenance.

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*CLIENT: Agile CRM, Hyderabad, Telangana, India.*

*June 2016 - July 2017*

*Role: DevOps Engineer*

- Worked in the **AWS** environment, instrumental in **utilizing Compute Services (EC2, ELB), Storage Services (S3, Elastic Block Storage), Elastic Beanstalk, VPC, SNS, IAM and Cloud Watch**.
- Implemented **CI/CD Pipeline** for **J2EE, Node.js** and **Python** applications as well as **Docker** containers using tools such as **AWS Code Build, Code Deploy, and Code Pipeline**.
- Utilized **AWS Lambda** Function to process records in an **Amazon Kinesis** Data stream and created multiple event source mappings to tell Lambda to send records from Kinesis Data stream to Lambda function.
- Used **Ansible** for configuration management of hosted Instances within AWS Configuring and Networking of Virtual Private Cloud (**VPC**) and designed **AWS CloudFormation** templates to create custom sized VPC, subnets, **NAT** to ensure successful deployment of Web applications and database templates.
- As part of continuously delivering **Agile** team, develop, test and deploy Data platform features Develop outgoing test automation using **Chef**, **python-based** framework to setup/ teardown of **ELK** stack (Elasticsearch, Logstash, Kibana).
- Used **Chef** to manage Database, Mount Points, Packages and Web applications. As a part of custom installation developed **Chef** cookbooks from scratch. Responsible to manage the **Chef** client nodes and upload the Cookbook to chef-server.
- Installed, Configured, Managed Monitoring Tools such as **Splunk**, for Resource Monitoring / Network Monitoring/Log Trace Monitoring.
- Deployed **Splunk forwarders, indexers** and **search heads** to monitor, analyze and visualize the azure VM's on the **Splunk** dashboard that helps in increasing the cluster performance.
- Integrated **AWS** with other systems like **Jenkins**, **Chef** and **HP** service Manager to develop **CI/CD** pipelines for automating **Prod** deployments using **REST APIs**.
- Played a pivotal role in the implementation of **continuous integration (CI)** and **continuous delivery (CD)** through **Jenkins** with build tool **Maven** and **Ant**.

- Used **GIT** and its various commands. Also, integrated GIT with **Jenkins** & build tools like **ant**, **maven**. I have a very good experience in implementing various branching strategies, automated various tabs related to release.

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*CLIENT: CCloudThing, Bangalore, Karnataka, India.*

*May 2015 - May 2016*

*Role: Build and Release Engineer*

- Used **Nexus Artifactory** to manage the repository in Maven and used the same to share the snapshots and releases of internal projects.
- Configured **Jenkins** to build **Java Code** using **Meta Case Software** and done C.I process on the **java code** generated.
- Wrote **shell scripts** and automated creating projects in **Jenkins** and **Nexus repository** as part of the release process.
- Developed build and deployment scripts using build tools **ANT** and **MAVEN** in **Jenkins** to transfer from one environment to other environments.
- Researched and implemented an **Agile work flow** for **continuous integration (CI)** and testing of applications using **Jenkins**. Administered and Engineered **Jenkins** to manage weekly Build.
- Managed build and deployment using **ANT**, **Bamboo**, **SCM** tools and managed **Maven** project dependencies by creating parent-child relationships between projects.
- Worked with **JIRA** for creating Projects, assigning permissions to users and groups for the projects & Created Mail handlers and notification Schemes for **JIRA**.
- Involved in setting up **JIRA** as defect tracking system and configured various workflows, customizations, and plugins for the **JIRA** bug/issue tracker.
- Manage users and groups in **Solaris** & **Linux servers** to create, modify and delete users/groups and troubleshooting user related issues and also involved in Troubleshooting **Linux Systems** identifying Hardware, software (both OS VF. and Application level) and networking issues.

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*CLIENT: Tech Amaush, Hyderabad, Telangana, India.*

*Sept 2014 - May 2015*

*Role: Linux Administrator*

- Configured and installed Red Hat and Centos **Linux** Servers on both virtual machine and bare metal Installation.
- Solid network and systems troubleshooting experience with HTTP\HTTPS, SFTP, FTP, NFS, SMB, SMTP, SSH, NTP and TCP/IP, Internet Security, encryption.
- Performed Administrative and Management tasks using shell Scripts written in Bash, **Python**, C Shell and **CRON** tab in Linux to automate the tasks.
- Management of user accounts, files and directory permissions, and securing **UNIX** systems to match industry best practices.
- Perform day to day **Linux** administration such as user accounts, login scripts, directory services, file system shares, permissions.
- Utilized Shells for scripting changes and improvements. Installed and maintained Red Hat 5.2 Linux and installed Ubuntu 10.0 Linux. Installed Operating Systems using **Kickstart**.
- Deployed **JAVA/J2EE** applications through WebLogic/WebSphere Application servers. Involved in front-end programming using **C** on both Unix and Window.