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### Laxmi Prasad Chilukuru

(**Certified** Google Professional Cloud Architect, **Certified** AWS Solutions Architect & **Certified** Terraform Associate)

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I am a professional cloud engineer with over 10+ years of experience in deploying and automating AWS and GCP environments. Have extensive experience in deploying various resources such as EC2, VPC, S3, and more, skilled in managing security groups on AWS and using various tools like Code Commit, Code Build, and Code Pipeline. My experience also includes using IAM, EBS, RDS, ELB, Route53, and other AWS services. I have knowledge of Terraform and can deploy and configure resources on AWS and GCP environments.

**Clients:** Novartis, DataMorphix (Big Data Platform), McKesson (Pharma), Edbrix (Educational Platform) & Sikkim Manipal University.

**Cloud Networking:** Amazon VPC, AWS Network ACLs, AWS Security Groups

**AWS Services:**  IAM, EC2, S3, VPC, Auto Scaling, ELB, Cloud Trail, Route53, Snapshots,

Cloud Formation, Cloud Front, Elastic Beanstalk,) ECS, SNS, SQS, SES, SWF,

 and Config.

**GCP Services:** IAM, VPC, App Engine, Compute Engine, Cloud Storage, Firewall rules, snapshots & LoadBalancers.

**Azure Services:** VM Instances, VNet, Blob storage, Load Balancers, Traffic Manager, DNS, VNet Peering

**Terraform:**  Creating resources like EC2, S3, EIP, VPC, Subnets using Terraform

**Automation Tools:** Ansible, Jenkins

**Container Orchestration:** Kubernetes, Docker

**Version Controllers:** GitHub, GitLab

**Scripting:** Python, Java, Groovy, Yaml, Shell scripting.

**Education:**

 Bachelor in Technology in Computer Science Engineering from JNTU University, 2013

## **Licenses & certifications**

 AWS Certified Solutions Architect – Associate

 <https://www.credly.com/badges/62870231-e377-48e6-8fc4-7ad8b54f7b81>

 HashiCorp Certified: Terraform Associate (002)

 <https://www.credly.com/badges/a159fe8f-e97f-4e24-976d-65d8ad054c75>

 Google Professional Cloud Architect

 <https://google.accredible.com/22faf29c-8f4f-4f2c-ab65-f863f145f595>

**Trainings & Career Education**

* + AWS Administration
	+ Google Cloud Administration
	+ Azure Administration
	+ SAP Basis & Administration
	+ Terraform(IaaC)
	+ Windows Administration & VM Ware
	+ Linux Administration
	+ Python Knowledge

**Professional Experience:**

**Client: Novartis Health Care**

**Role: Sr.AWS & GCP Cloud Engineer**

**Location: Dallas, TX**

**Duration: Dec-2021 to till date**

**Project Overview:** Providing services for Novartis Public Cloud, Monitoring the Palo Alto firewalls,

CISCO routers which are configured in AWS & GCP Cloud accounts throughout the global,

Monitoring the system logs and health checks. Cleaning up the subnets which are not in use. Monitoring the system status /Load on daily basis.

**Responsibilities in AWS:**

* Deployed **EC2** instances and database services using AWS **Redshift**/ Elasticache and Elasticsearch for Analytics, which include security and encryption through peered VPC's for data in transit and Confidential rest from services and SQL clients.
* The entire resource creation process has been automated with **Terraform** scripting.
* Integrated the **AWS S3** logs with Athena service, exported the data in csv format by leveraging the Lambda with python code.
* Involved server less data integration service using Glue
* Working with Data Engineer team to analyses the data in **S3** bucket using AWS Athena and understand the pattern of data.
* Design AWS VPC'S with endpoints with Application gateways, Security groups and flow logs for secure Route 53 DNS and web services via specific port access. Drive development of AWS Open APIs with security posturing.
* Built automated and flexible detection and response programs using tools like CloudWatch, Cloud, Trail, and AWS Lambda. Leveraged Identity Access Management features to setup Multi-Factor Authentication (MFA) for added security layer to root account, enterprises user account and assigning roles based on lease privilege to users.
* Assisted with designed and security oversight of next generation firewalls, intrusion prevention systems, DDoS solutions, SSL-terminating load balancers, WAF, security groups and NACL.
* Automated the process of keeping track of succeeded and failed Athena queries, written python code in lambda function.
* Used **AWS EKS, ECS** deploy scalable, high available and fault tolerant containerized applications in AWS ecosystems
* Configured and managed landscape with high availability(HA) and DR system in AWS
* Integrated services like Bit bucket, AWS Code Pipeline, Jenkins and AWS Elastic Beanstalk to create a deployment pipeline.
* Experience with AWS ecosystems and guiding products, data management, and processes that meet NIST, HIPAA/HITRUST and GDPR standards
* Actively engaged in all phases of Migration of On-Prem applications and Databases to Cloud ecosystem using by **DMS, AWSMGN**, Migration Hub, Cloud Endure, and various migration services.
* Experienced in migrating on-prem SAP systems to AWS cloud
* Have done DMO migrations on SAP BW system NW to SAP BW on HANA.
* Led end-to-end migration projects for SAP systems from on-premises data centers to AWS cloud, ensuring minimal disruptions and maximum performance.
* Conducted comprehensive assessments of existing SAP environments, identifying dependencies, resource requirements, and potential challenges.
* Experienced in executing **V2V** migration to AWS, Seamlessly transitioning virtualized workloads from on-premises or there virtualization platforms
* Configured and managed continuous block-level data replication between on-premises storage and AWS storage services such as Amazon S3 and Amazon EFS
* Expertise in support activities like System Health Check Monitoring, Performance Monitoring and Tuning, Live Cache Administration, Background Job Administration, Transport Management, Spool Administration, and General Basis Support etc.
* Worked on the OS DB Migration with different Operating systems / Databases with the SAP Re-platforming VM Migration Project.
* Involved with SAP Basis team to perform the migration to AWS using SWPM and SUM DMO,AWS CLI tools & AWS S3, AWS Migration Hub
* Set up the ETL process by reading DDL statements from S3 buckets, validate the queries on Athena platform and loaded data into Dynamo DB tables.
* Hands-on experience working with AWS security tools/ **SecurityHyb** such as AWS CloudWatch, AWS Inspector, GuardDuty and IAM Identit center
* Good Knowledge on deploying Oracle Database/PL SQL
* Experienced in deploying **RDS/Aurora** database instances which includes migration of production databases from non-cloud premises environment to cloud

 Provisioning RDS instances

* Implementation of required changes in network devices by following the change management process.
* Configuring firewall rules and providing access to the users as per the user requirement.
* Providing restoration path for the circuits affected during any Major failure.
* Back up the **EC2** instances and volumes by creating a **snapshots,** Creating AMI for instance using Packer
* Troubleshooting in case of server is not reachable or server went out of service in **ELB /NLB**
* Implement automated Scale-up and Scale-down for optimal user experience by configuring **ASG**
* Creating **S3** buckets, setting up **cloudwatch** for system monitoring and SNS for notification
* Building Elastic Load Balancer as per client requirement.
* Responsible for Creating **VPC**, **Subnet, security groups, IGW and Route tables.**
* Highly involved in cost-optimization of Cloud infrastructure using AWS **Lambda** and **Cloud watch** so that we can stop the databases when the application is not being used.
* Secret management with Hashicorp Vault
* Responsible for IAM access control through policy

**Responsibilities in GCP:**

* Designed & built infrastructure for the **AWS &** **GCP** environment from the scratch. Identified the architectural constructs used as boundaries between various environments.
* Expertise in multiple Google Cloud Services for computing: **Compute Engine** and **App Engine**, Cloud Bigtable, **Cloud SQL**, Big Query and Cloud Data Flow, for Identity and Security: **IAM**, CRM and Cloud Security Scanners, for monitoring: Stackdriver, Stackdriver Logging, Stackdriver Monitoring and Pub/Sub
* Configured highly available (HA) communication between on-premises network and Google Cloud Platform.
* Created a VPN connection between On-Prem to the **GCP** with multiple tunnels and policy based routing.
* Used **Pub/Sub** for exporting all the project level objects and organizational level objects to **Splunk**.
* Encrypted data at rest for the core GCP services such as virtual machines, containers by designing the architecture for Key Management System (KMS).
* Maintaining Cl/CD pipeline with **Jenkins** on **Docker** container environment utilizing **Kubernetes** and Docker for the runtime environment for the **Cl/CD** system to build test and deploy on DEV, UAT and PROD environment.
* Hands-on experience in configuring, troubleshooting and monitoring Palo Alto Firewalls from central management device PanoramaM500
* Developed and implemented CI/CD pipelines using CodeCommit,Codebuild, and CodeDeploy resulting in reduction in deployment time and decrease in deployment errors.
* Implemented and managed complex virtual networks, utilizing **IaaS** solutions, resulting in decrease in infrastructure costs.
* Developed and maintained TCP/IP protocols and standards, ensuring seamless connectivity across multiple platforms and environments
* Installed, Configured,Managed monitoring tools such as Grafana for resource monitoring/network monitoring/Log trace monitoring
* Led successful migrations of 100+ servers to cloud-based infrastructure, improving system performance and reducing downtime
* Good hands-on experience in working with MySql database and workbench and debugging.
* Built and managed virtual machines and containers using IaC tools such as **Terraform** and Ansible, streamlining deployment processes and reducing manual errors
* Automated weekly releases with Maven scripting for compiling Java Code, debugging and placing Builds into Maven Repository.
* Used the Firebug to inspect the XPath of the web elements and Eclipse IDE for Java development
* Experience in coding and Programming language JAVA
* Collaborated with cross-functional teams to design and deploy automated testing frameworks, resulting in reduction in manual testing efforts.
* Experienced in deploying tools, including Java, .Net, and PHP-based applications.
* Maintained and monitored production environments, quickly addressing and resolving any issues to ensure maximum uptime and availability
* Hands on experience in managing Gsuite /Google Email server’s.
* Led the end to end application deployment and release management processes for .NET applications, ensuring smooth and efficient application releases.
* Successfully migrated clients' data and applications to the cloud and Provided support for troubleshooting the technical issues
* Translated business strategy into Solutions Architecture
* Leads Solutions design and Analysis, Orchestrates Solutions Delivery
* Architected and Developed data pipelines using Airflow, Terraform, GCP dataflow, and GCP dataproc with spark and scala, BigQuery.

**SAP on AWS/GCP**:

* Installed SAP ECC, S/4HANA and SAP BW systems on AWS EC2 instances.
* Monitored SAP ECC and BW workloads namely, took SAP ECC and SAP BW backups to AWS S3
* Provisioned resource(EC2) on source windows SAP ECC/SAP BW and SQL server
* Provisioned log space on SAP ECC and SAP BW (2 TB)
* Hands-on experience in **SAP** user administration, SAP client administration / Client copy
* Configured and managed HANA landscape with high availability(HA) and DR system in AWS
* Worked on the OS DB Migration with different Operating systems / Databases with the SAP Re-platforming VM Migration Project.
* Involved with SAP Basis team to perform the migration to AWS using SWPM and SUM DMO, AWS CLI tools & AWS S3, AWS Migration Hub
* Experienced in migrating on-prem SAP systems to AWS cloud
* Have done DMO migrations on SAP BW system NW to SAP BW on HANA.
* Monitored SAP ECC and BW workloads using GCP

**Environment**: AWS, GCP Cloud storage, Compute Engine, App Engine, Lambda, Cloudwatch, IAM,ELB/NLB, Pub Sub, VM Instances, IGW, Terraform(IaC), Apache, Nginx, DynamoDB, Cloud Formation Templates, Jenkins, OpenShift, Python, Shell Scripting.

**Client: Datamorphix (**[**https://www.datamorphix.ai/**](https://www.datamorphix.ai/)**)**

**Role: Sr AWS Cloud Consultant**

**Location: Irving, TX**

**Duration: Nov-2017 to Nov-2021**

**Project Overview:** Datamorphix is an innovative and cost-effective platform for Big Data Analytics and Big data platform creation. The product provides two services, Platform as a Service (PaaS) and Software as a Service (SaaS) with different Data Lake. The user can spin off a big data platform on the go and leverage the power of data analytics. The product provides a simple UI based control to set up the necessary infrastructure for Big Data ecosystem. The product also provides provisioning for both AWS and Google cloud platform.

**Responsibilities:**

* Build Servers using AWS: **Importing Volumes, Launching EC2, RDS, Creating Security Groups, Auto-Scaling, Load Balancers** (ELBs) in the defined virtual private connection
* Create new EBS volumes and attaching them to EC2 instance when needed
* Experience in setting up the AWS Infrastructure with **Terraform scripts**
* Creating resources like EC2,VPC,Subnets,EIP, Load Balancers, Security groups using Terraform
* Taking instance backups as Amazon Machine Image (**AMI**) and launching these when we need similar servers
* Deploying windows **Kubernetes (K8s)** cluster from AWS CLI and utilized **Kubernetes** and **Docker** for the runtime environment of the **CI/CD** system to build, test and deploy.
* EBS volumes, EIPs, Snapshots, AMI’s. Creating AMI images from existing instances and copy them to different regions / Availability Zones (AZs)
* Uploading data, Snapshots and EBS volumes in S3 storage while creating EC2 instance
* Assigning roles to EC2 instances to access/store data from other AWS services like S3, Cloud watch etc.
* **ELB** – Creating Load Balance for EC2 instances within VPC, Adding Instances to make online service highly available
* Managing DNS names and Alias record in Route53 to catch up load balancer
* Creating record sets wherever customer requested
* Handling multiple requests in IAM like creating users, groups and roles
* Creating/Modifying Policies according to user’s access requirement
* **S3** – Working with S3 to create the buckets to store objects
* Changing permissions on buckets/objects
* Enabling events and logging on buckets to monitor bucket performance
* Managing cost on S3 buckets by using Standard, S3 In-frequent Access and Reduced Redundancy Storage
* Implementing lifecycle management to send data to Glacier then delete
* VPC – Creating Instances in VPC, assigning subnets and Elastic IPs to get network, Creating NAT Gateways using Elastic IP. Creating Internet Gateway, Route Tables for subnets
* Knowledge DDoS attack's , IPsec & SSL implementation on **Cisco** and **Palo Alto** firewalls
* Involved in conducting security policy rule review to identify and remove rules that are not needed to reduce Palo Alto firewall policy lookup
* Launching NAT instance within VPC to provide internet to database/secure instances
* Monitoring AWS services like **EC2**, **S3** and **RDS** through **Cloud Watch**
* Involved in large database migration process from on-prem servers to Redshift using AWS database migration service
* Creating new alarms in case of additional requirement
* Expertise in handling multiple RDS (Relation Database Service) instances which includes migration of production databases from non-cloud premises environment to cloud

 Provisioning RDS instances

* Enabling automated backups and **Multi-AZ** to improve database performance on **RDS**
* Creating and deploying snapshots as a part of restoration process or to migrate databases from one region to another

**Environment**: AWS, EC2, Load Balancers, Target Groups, Auto Scaling Groups, Ansible, OpenShift, Terraform, Docker, Kubernetes, VPC, S3, Red Hat Linux, Git, Jenkin, Python

**Client : McKesson**

**Role : Sr AWS Solution Consultant**

**Location: Irving, TX**

**Duration: June 2016 - Oct 2017**

* Involved in maintenance and performance of Amazon **EC2** instances
* Involved in designing and developing Amazon **EC2**, **Amazon S3, Amazon RDS, Amazon Elastic ELB** and other services of the AWS infrastructure
* Implemented Security groups for Inbound/Outbound access
* Experience in working with Monitoring tools such as Cloud Watch
* Created AWS Multi-Factor Authentication (MFA)
* Setup/Managing VPC, Subnets; make connection between different zones; blocking suspicious IP/subnet via ACL
* Setup/Managing CDN on Amazon Cloud Front (Origin Path: Server / S3) to improve site performance
* Create/Managing buckets on S3 (CLI) and store database and logs backup, upload images for CDN server
* Setup/Managing Databases on Amazon RDS. Monitoring servers thorough Amazon Cloud watch, SNS
* AWS data backup (**Snapshot**, **AMI creation**) techniques
* Involved in designing and deploying plan for existing application which need to be moved to AWS cloud
* Created **AWS Route53** to route traffic between different regions
* S3 backups using versioning enable and moved objects to Amazon Glacier for archiving purpose
* Created users and groups using **IAM** and assigned individual policies to each group
* Good understanding of **VPC, ELB**, **Security groups, NACL, NAT, firewall and Route 53**

**Environment:** AWS, EC2, S3, Elastic Beanstalk, Route53, Lambda, Ansible, Terraform, GIT, Jenkins, Docker, Kubernetes, Apache, Nginx, DynamoDB, Cloud Formation Templates, JIRA, API Gateway, Python, Shell Scripting.

**Client: Edbrix (**[**https://www.edbrix.com/**](https://www.edbrix.com/)**)**

**Role: GCP cloud Consultant**

**Location: Irving, TX**

**Duration:** **March 2015 to May 2016**

**Overview about Edbrix:** Edbrix provides an integrated eLearning platform in online, blended or traditional methodology with robust scholastic tools to facilitate storage, management, and sharing of educational resources & knowledge. Influence powerful learning experiences amongst students through innovative delivery of instruction & assessment.

**Responsibilities:**

* Creating the **GCP VM instances** and hosting the application using **Microsoft IIS / WAMP** inWindows server**.**
* Proficient with container systems like Docker and container orchestration Service, Kubernetes, worked with Terraform.
* Managed Docker orchestration and Docker containerization using Kubernetes.
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Generating the CSR, Key and installing SSL certificate
* Restoring the database, creating the Instance in Google cloud platform and hosting the application.
* Design, implement and manage virtual networking within GCP and connect to on-premises environments, configure Express Route, Virtual Network, VPN Gateways, DNS, Firewalls and Load Balancers.
* Managing **GCP VPC network firewall** rules and adding custom domains and enabling SSL for individual domains.
* Taking instance **Snapshots** and launching these when we need similar servers
* Monitoring the **CPU**, memory utilizations.
* Monitoring the server from backend using putty application.
* Giving support to other customers if they face any issue in the application, handling hosting servers from different hosting providers like Soft layer, Rimu hosting, Go daddy, 1and1.
* By using **App Engine** adding custom domains and sub-domains & website redirecting / forwarding, managing DNS settings.
* Managing access control of the users and adding new users to the platform rapid application development tools. Taking backup for all cloud based Linux servers using putty and Winscp application & storing the data in secure place.
* User administration, Client administration, mailing server with several domains google, 1and1 webmail.
* Creating new profiles for new employees and giving permissions for the particular users, Applying licenses for the email users, increasing Inbox storage.
* Outlook configuration using Google App sync application, Monitoring servers and its backups & fixing network issues.

**Environment**: GCP, Terraform, Microsoft IIS / WAMP3.5 version, PHP 7.3,My SQL 5.6, Apache 2.4.9, Kubernetes, Shell Scripting, Jira, GitHub, Docker, Windows Server.

**SM Intellisoft Technologies**

**Role: Network Administrator**

**Location: Hyderabad, India**

**Duration: March 2014 to Feb 2015**

* Monitoring multitenant Voice PBX Linux servers, Adding IP address to the Respective tenant using putty application, Handling SM Intellisoft Customer Relationship Management (CRM) system.
* Involved in VoIP system migration from on-premise to cloud Linux server. Providing VoIP solutions to the customers throughout the USA & Canada also in India regions. Installing PBX software in client system and make it to work, establishing the connection between server and client system.
* Creating Tenant as per the customer’s requirement. Creating Extensions and portal logins
* Handling multitenant VoIP server’s third lane, PBX, PBX configuration, Trunks, Handling Inbound / outbound configurations, Configuring Hunting groups, handling critical customers VoIP problems.
* Creating new campaign and giving the access details to the customer, Creating new list and uploading leads into the list, Monitoring the entire dialer and sending the report to the respective manager, Clarifying the network side issues to the agents who are working on this project, Creating new administrator portal login user details for new agents

**Environment**: Soft layer (IBM Bare Metal Server), CentOS 6.5, MySQL Version 14.14 Distrib 5.1.73, Apache 2.2.15, webmin version 1.690, Multitenant PBX, Putty.

**Client: Sikkim Manipal University**

**Role: Network Administrator**

**Location: Hyderabad, India**

**Duration: Mar 2013 to Feb 2014**

**Project Overview**

**Implementation: MeritTrac Pariksha**

* MeritTrac provides examination process and assessment solutions to Educational Institutions, Government / Public Sector and Corporates.
* During my tenure, worked on 180 systems connected across three servers via LAN (Local Area Network) and resolved the LAN/WAN issues during systems installation.
* Used "ParikshaCentral”, IE 6 and above to create, lock/unlock users
* Worked on multiple O/S like WINDOWS 2003, 2008 servers , when issues like O/S corrupted, did a fresh installation and update patches/support packs as needed
* If the candidate/s are late to the exam, the user id, password is locked in 20mins and used "MeritDoc" application to reset the user id, password Worked extensively of maintaining & monitoring all the servers/systems during the exam process.
* Prepared training manuals and trained the users/other fresher’s.
* Overseeing the smooth execution throughout the implementation of exam process.
* During my tenure, worked on 60 systems connected across three servers via LAN (Local Area Network) and resolved the issues during systems installation.
* Connected over 50 tablets via Bluetooth and installed “Pariksha Central” on all the tablets and taken care of servers and tablets functioning and monitoring during the exam process

**Implementation: MeritTrac Pariksha for Amdocs**

* As the room capacity is less, connected only 25 systems across on the network, installed “Pariksha Central” on all the systems and monitored the examination process

**Implementation: Accenture/Cognizant Wilkin-drives**

* During the walk-in drives at Accenture and Cognizant, prepared 50 systems on the network and assigned the prospective candidates for online examination, monitored and maintained the servers and systems and resolved all the issues during the process

**Implementation: MeritTrac Pariksha for ICICI**

* Apart from connecting the systems across the network, here, generated the on-demand user id and passwords for the exams as needed

**SAP Basis & Administration**

* Worked extensively on installation of all SAP system like SAP R/3 4.7, ECC 6.0, CRM, SCM, BW 7.0, BW 7.3, BO 4.0 and integrated BW and ECC via RFC connections and integrated BW and BO via RFC destinations.
* Worked on patch updates, Kernel updates, SAP Notes, Oracle database, TMS configuration, user creation, Client Creation, Client copy and security maintenance.
* Transporting the requests from one landscape to other using STMS and verifying through transport logs**.**

**SAP Security skills**

* User Master Maintenance, User Activity, Groups Creation/Modification, Role creation, Profile Generator, Authorization Traces, Password Management, Central User Administration (CUA), Direct Contact with functional counterparts collecting current R/3 security requirement.

**Support activity**

* includes Batch job scheduling and monitoring, Printer setup ( SPAD ), Add-On installation (SAINT), RFC and SAP Logon group configuration ( RZ12/SMLG), JAVA Support pack installation using JSP

 Maintenance and monitoring of tRFC and qRFC.