

A blurred photograph of an electronics store interior, showing aisles with various electronic products and a large "ELECTRONICS" sign in the background.

ELECTRONICS

CASE STUDY

AWS Windows Service Delivery

Executive Summary

LAN MARK Shops (Whitemart), a leading Electronics & Home Appliances retailer in South India chose Amazon Web Services as their preferred OEM while planning their migration to Cloud for a scalable and reliable infrastructure. Crozaint Team helped them with right planning on Migration and Seamless Deployment, ensuring zero downtime as well as right business continuity in place.

The customer has reduced his operational cost by % and has improved Application performance with better security policies.



About the Customer

Lan Mark is a fast-growing home appliances franchise that provides multi-brand, multi-product services in the states of Kerala and Tamil Nadu under the brand name of White Mart. With its corporate office in Kochi and more than 250 outlets in South India, 70 in Tamil Nadu alone, Lan Mark is synonymous for affordable, high quality home appliances from all major brands, available through each of its outlets.

Customer Challenge

Customer had found it difficult to maintain their workload on-premises with SAP environment that required a 2-tier architecture. Client required the access to application set through a VPN solution for securing and restricting the application access to authorized individuals. Apart from this infrastructure scalability was a primary concern which their on-premises environment couldn't deliver in time considering the pace of business expansion they have in mind.

Why AWS

By leveraging services in AWS like subnet in VPC, RDS, EC2, S3 etc we were able to come up with a solution that matches their requirement. Additional services were explored such as lambda to come up with a solution to keep the cost to minimal as possible.

Why the Customer Chose the Partner

Crozaint's major portfolio showcases expertise in the following service pillars:

Crozaint Enterprise
Cloud Migration

Cloud Managed
Services

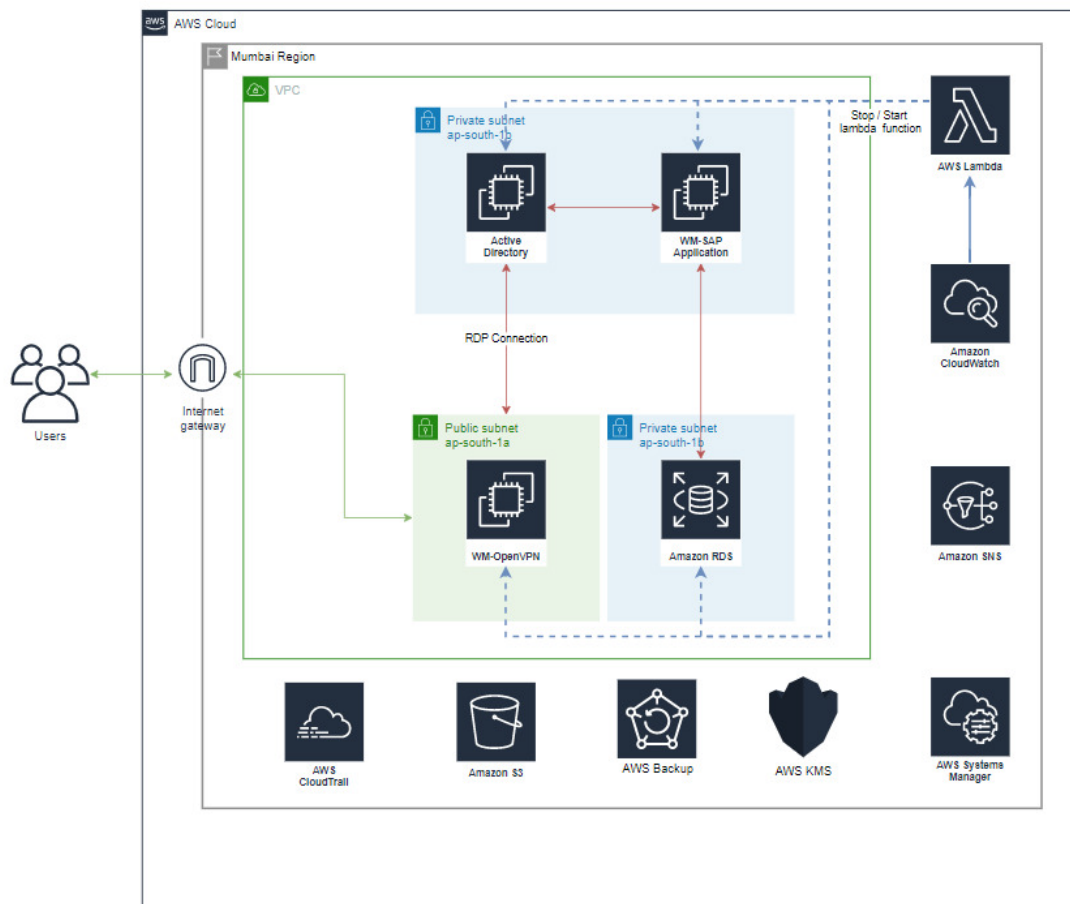
Cost Optimization
Services

Security Governance
and Compliance

Partner Solution

The architecture consists of 3 EC2 instances and RDS deployed in Custom VPC. Custom VPC consists of subnets having public and private subnet [NAT gateway for Private instance]. Application is deployed in Windows 2019 server. OpenVPN is public facing with access limited to the Client's Office IPs. The RDP access is controlled by an AD server. The SAP workload has IIS with .net 4.5 having database in RDS. Instances deployed in private subnet can be accessed only after establishing an OpenVPN connection. In private subnet, there are two instances. one for SAP workload and another for managing AD users for the application server. All the instances are attached with encrypted SSD EBS volumes using the AWS Key Management Service (KMS).

Architecture Diagram



Application Database is managed by AWS RDS MSSQL instance which is deployed in the private subnet. Security Group set on the RDS restricts connectivity other than the SAP Server. RDS instance is also encrypted with the AWS Key Management Service (KMS).

For cost optimizations, we have enabled lambda function to stop and start the instance based on the business hours at the client side as per the requirement [working hours].

We have used AWS Backup service to take the backup of the instances there by ensuring 30 days snapshots of EBS volumes as per the requirement. To ensure backup integrity, we have configured the AWS backup to get a failed backup notification using the help of Amazon Simple Notification Service.

CloudTrail for all the regions which perform auditing, compliance monitoring, and governance tool. All the CloudTrail logs are stored in AWS S3 bucket with versioning and MFA delete set.

CloudWatch alarm is created for getting the notification if the threshold value is cross beyond a limit for the resources. CloudWatch dashboard is created to get a quick glance at all the metrics of the instances running on the AWS environment.

AWS System Manager ensures patch management and session management.

Results & Benefits

Cost reduction

Increased metrics collection

A better backup solution

Meeting the compliance for 3rd party audits and compliance

About the Partner

Crozaint a “Born In Cloud” firm, is confined to helping businesses with its flawless IT solutions in the Hybrid Cloud Era We help customers of all types and sizes to plan, design, architect, build, migrate, and manage their business applications on the cloud, accelerating their Digital Transformation journey.

With several successful implementations, skills, and technical certifications, we continuously meet the rigorous parameters for each specified competency of the Public Cloud Providers, thereby keeping us ahead and relevant.

