Motherson Technology Services Technical Proficiency Helped

CedCommerce

Gain Robust Cloud Infrastructure and an Optimized Application Performance

Client Overview

CEDCOSS, the parent to **CedCommerce, MakeWebBetter, MageNative, and BotMyWork**, is a leading eCommerce Solution company, enabling businesses of all sizes to make their shift online through easy, affordable, and robust solutions. Being in the industry for more than 11 years now, CEDCOSS is driven by eCommerce enthusiasts and highly experienced professionals dedicated to providing the best-in-class services and support fulfilling each demand and specifics of its client base. The word-class performance and global acclamation of CEDCOSS make it a winner of **Deloitte Tech Fast 50 Awards 2021** for the fifth time in a row.

Business Challenges

Being a technology solution provider, CedCommerce has been helping customers expand their business to various platforms such as Magento, Shopify, Prestashop, etc. They realized the need to optimize their workloads in order to reduce the cost and enhance the performance with scalability and get a resilient architecture as they faced the below challenges:

1 CedCommerce was unable to scale and handle the dynamic load.

2 They were following the manual build & deployment process, which was time-consuming and error-prone

3 CedCommerce had vulnerable servers as they were placed in the public subnet and exposed to possible security threats.

Our Solution

The customer partnered with us to overcome these challenges and attain optimal performance and architecture. Our paradigm for the client's cloud implementation included the following alterations in their existing setup/architecture:

- Helped CedCommerce move the Application server and Database server to a private subnet and import existing SSL certificate in the load balancer.

- Implemented Web application firewall (WAF) for enhanced security against common web exploits.

- Executed AutoScaling and configured Elastic Load Balancing (ELB) for improved scalability, reliability, enhanced performance and meeting dynamic load.

- Carried out CI/CD pipeline to automate the build and deployment and enable rapid and reliable delivery of features and updates in the application.

- Helped CedCommerce with demand-based consumption through AutoScaling to save cost

AWS services used

- AWS CodePipeline
- AWS CodeDeploy
- IAM password policy and MFA
- AWS GuardDuty & Inspector
- AWS Systems Manager
- AWS Elastic Load Balancing (ELB)
- AWS Web Application Firewall (WAF)
- Patch Manager

Solution Architecture
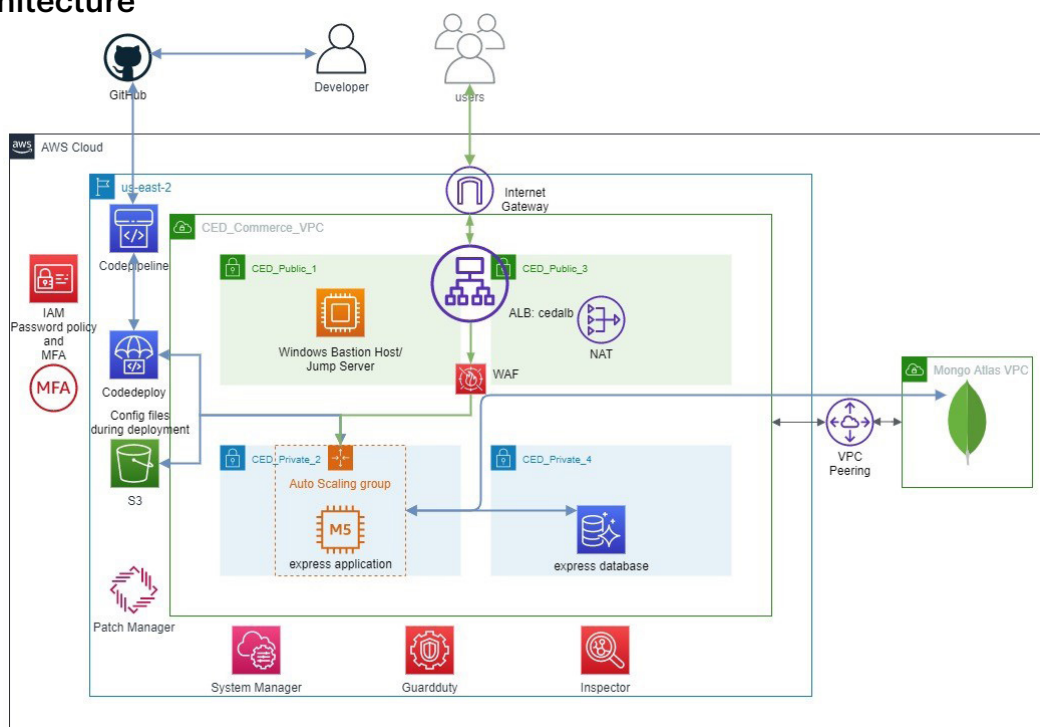
A quick view of how AWS services helped CedCommerce in enhancing security and improving application performance:

With the implementation of a Load balancer and NAT, we helped them move the application and database servers in a private subnet which was recommended from an enhanced security perspective.

Autoscaling group provisioning carried out by our made the application more resilient and was able to assist in cost saving by vertically scaling down the server and horizontal application scaling.

We executed CI/CD implementation with existing GitHub repo which helped them attain the autonomous architecture where deployments are done with near-zero downtime and auto-rollback if any issue arises.

Implementation of Systems Manager Patch Manager helped CedCommerce automate the patching of managed instances with security-related and other types of updates.
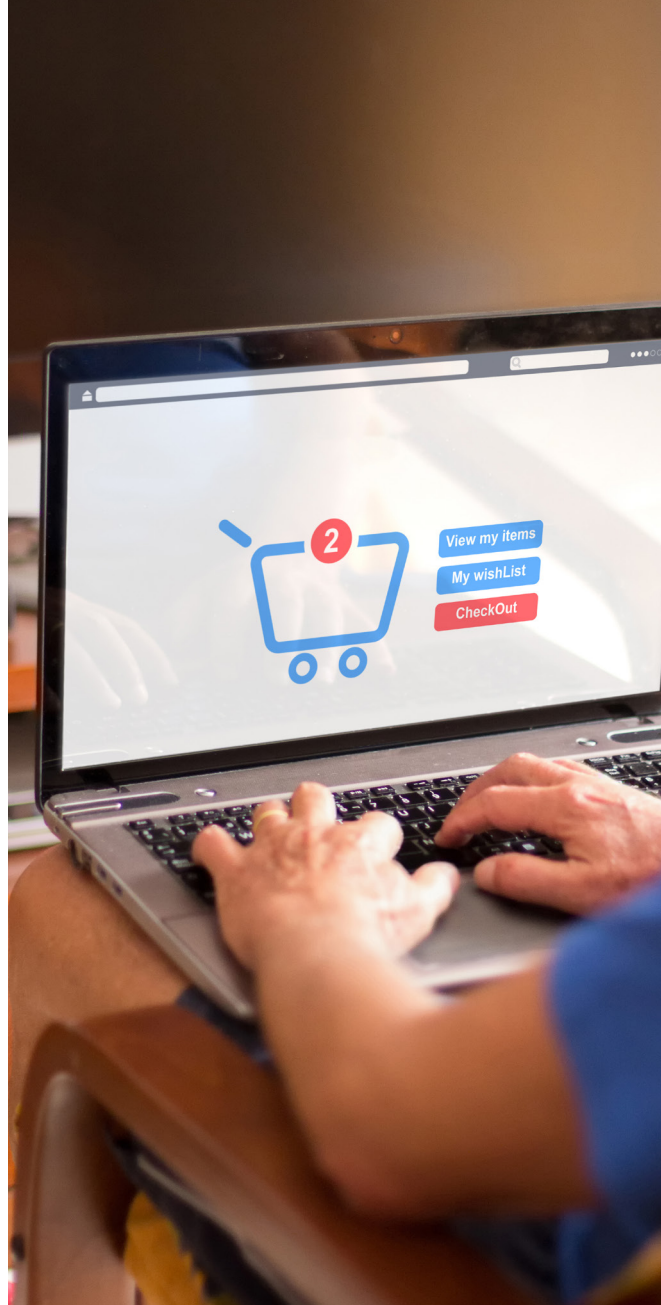
Benefits

Cost optimization due to application resource utilization monitoring and horizontal scaling.

CI/CD implementation helped automate build & deployment, which improved the developers' productivity and reduced errors and bugs.

Implementation of IAM policy & MFA, GuardDuty and Inspector, helped enhance AWS account and server security.

ELB and Auto Scaling enhanced the reliability of the Cedcommerce application.

About The Partner

Founded in 1975, Motherson Group is an industry leader and one of the world's largest manufacturers of components for ther automotive and transport industries. The group's diversified portfolio makes it a complete solutions provider across the globe. Motherson Group serves its customers with a wide array of products and services through multiple business divisions including wiring harness, vision systems, modules and polymer, technology & software, aerospace, health & medical, logistics, retail and metal products. Motherson Technology Services is a global technology company that offers a consulting-led approach with an integrated portfolio of industry leading solutions that encompass the entire enterprise value chain. Our technology-driven products and services are built on two decades of innovation, with a future focused management philosophy, a strong culture of invention and co-innovation, and a relentless focus on customer-centricity. A CMMI Level 5 company, we have delivered best-in-class services to 430+ clients in 41+ global locations across all continents. We are a business division of Motherson Group, one of the largest manufacturers of components for the automotive and transport industries worldwide with 150,000 employees across the globe.