



CASE STUDY

Re-engineering to cut 30% costs on AWS

Access.io enabled Commudle to optimize its cloud environment by adhering to AWS Well-Architected Review



EXECUTIVE SUMMARY

Commudle is a unique platform that connects techies and businesses in a seamless, mutually-beneficial manner. The cloud is a crucial enabler of Commudle's vision. However, cost is a substantial hindrance to achieving this vision. The Commudle team was looking to reduce costs and improve the reliability of their cloud architecture. Access.io helped them achieve both by leveraging AWS Well-Architected Review (WAR).

Our AWS experts utilized WAR's proven design principles to review Commudle's cloud infrastructure. We also suggested practical improvements to build a more high-performing, resilient, efficient, and secure AWS infrastructure for Commudle's needs.

ABOUT ACCESS.IO

Access.io is an AWS Advanced Consulting Partner offering world-class Managed Cloud Services, Cloud Advisory, and DevOps Automation to organizations in a wide range of industries.

ABOUT COMMUDLE

Commudle provides a diverse and growing ecosystem for developers and DevRel's. Commudle also enables techies to find new opportunities, expand their professional networks, and organize/participate in exciting coding competitions and hackathons. Tech companies also benefit by partnering with Commudle since the platform enables them to scale their developer programs, 10x the efficiency of their DevRel teams, and 100x their developer-specific engagements.

THE CHALLENGE

- Cost and reliability were both major concerns for Commudle.
- They needed to design and operate reliable, sustainable, and cost-effective systems in the AWS Cloud.
- Workload was unable to recover quickly from failure.
- They were struggling to understand their:
 - Spending trends
 - Control fund allocation
 - Select the right resources
 - Scale the infrastructure

AWS SERVICES USED

- AWS Well-Architected Framework
- AWS Savings Plan
- AWS Cost Management
- AWS Lambda
- AWS CodeCommit
- AWS CodeDeploy
- AWS CloudWatch

OUR SOLUTION

Axcess.io conducted a comprehensive WAR of Commudle's cloud architecture using the principles and best practices enshrined in AWS WAF. We effectively leveraged the WAF's best practices to prepare Commudle to build robust, secure, and agile AWS applications.

After completing the WAR, Axcess.io implemented the following solutions for Commudle:

- ✓ Re-architected the network design per AWS WAF best practices
- ✓ Implemented throttling to improve API throughput and overall performance
- ✓ Moved the backend to AWS Lambda so Commudle could run their code without worrying about infrastructure provisioning or management
- ✓ Designed and implemented full-stack observability so the Commudle team can gain insights into their technology stack and control both performance and costs
- ✓ Designed and implemented a robust CI/CD Pipeline for Ruby on Rails deployments
 - Set up an automated, repeatable process to detect and decommission unused resources and services
- ✓ Moved to Graviton processor to improve the price performance for Commudle's cloud workloads running in Amazon EC2

We also recommended that Commudle purchase Amazon EC2 Reserved Instances (RI) or AWS' Savings Plan, a flexible pricing model. Both these solutions could help Commudle cut their cloud costs by 30%

THE BENEFITS



**Boost Application
Performance**



**Minimize
Security Risks**



**Reduce Costs
by 30%**