# Cloudvisor

powered by aws

# Harnessing the Power of the Cloud With Creative Expression

# GWORKS

# Maintainability, Scalability, and Cost Optimization Is Why G-Works Migrate Their Digital Solutions to Amazon Web Services (AWS)

G-Works is a creative digital agency specializing in modern, user-oriented digital solutions. Visually impressive and creatively implemented websites, online stores, and custom systems are at the heart of what they do. In addition to website development, G-Works also offers customers maintenance and support services.

When G-Works decided to migrate to AWS, they needed a partner who could provide a solution that is cost-effective, easy to maintain, and scale. **G-Works chose Cloudvisor, an Advanced Tier AWS Partner, to migrate their digital solution from an on-premise environment to AWS because Cloudvisor posesses significant experience in AWS migration, andunderstands the complexity of adopting new cloud services towards an existing solution**.

## Why Amazon Web Services?

### Maintainability and scalability

G-Works required a scalable solution without the burden of infrastructure management. A container-based approach was followed - refactoring their application in Docker containers and, by doing so, making it cloud-native.

Docker containers managed by Amazon Elastic Container Service (ECS) are provisioned with auto-scaling, automatically running G-Works' application in multiple Availability Zones. This ensures the application is high performing, reliable, and available irrespective of the workload.

Some form of compute infrastructure is needed to run Docker containers with Amazon ECS. G-Works opted for AWS Fargate; a serverless compute engine that removes the operational burden of scaling, patching, securing, and managing servers.

To take full advantage of ECS and Fargate, G-Works needed to adopt an infrastructure-as-code (IaC) approach. IaC allows infrastructure changes to be initiated through a source control mechanism, Gitlab in G-Works' case, and integrates it as an automated part of a CI/CD pipeline. Terraform scripts were the main component in creating the Gitlab CI/CD pipeline, resulting in automatic deployment for any changes made in the application code.

G-Works harnesses the power of AWS with Docker containers and IaC. **Their developers can focus on building applications because creating new server resources is completely automated**. Thanks to the Gitlab pipeline, they can deploy their application 10000+ times daily without any downtime.

AWS WAF Delivery
Solution Provider
Amazon CloudFront Delivery
Well-Architected Partner Program
AWS Marketplace Skilled Consulting Partner

aws
PARTNER
Advanced Tier Services

## Cost optimization

Dockerizing the application to run on a container instead of a virtual machine was the first cost optimization. Docker containers do not require an entire guest operating system, they are lighter than virtual machines and require fewer resources.

AWS Fargate is another way G-Works optimized costs. Fargate scales the compute to match G-Work's resource requirements closely. G-Works only pays for what they use; there is no over-provisioning and paying for additional servers.

One of the most significant cost savers for G-Works is automatic infrastructure management - there is no need to hire resources to maintain application infrastructure. On top of that, the solution is dynamic and can be reused in future migration projects.

## AWS Services Used

| | | |
|---|---|---|
| Amazon Elastic Container Service | AWS Fargate | AWS ECR |
| AWS VPC | AWS loadbalancer | AWS ACM |
| AWS Mysql RDS | AWS S3 | AWS System Manager Parameter Store |

## Why Have Over 200 Startups Trusted Cloudvisor?

At Cloudvisor, we have one simple goal: **We help startups scale with Amazon Web Services (AWS)**.

Our team has a unique combination of experience working with AWS, while also applying those solutions in a way that helps startups thrive.

**One half of our DNA is AWS, the other is startups**.

## Get Started Today!

Contact Cloudvisor today and get the most out of AWS.

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