

Case Study

# Stabilizing a Streaming Guide with AWS-Powered Infrastructure

Clearscale migrated and simplified the platform's file services using Amazon EC2, EBS, and Terraform to ensure reliable performance.

## Client Profile

 Industry Media & Entertainment

 Technology Migration and Modernization DevOps

Media & Entertainment

## Overview

A media discovery platform struggled with instability caused by its legacy file-serving infrastructure. Frequent outages disrupted the service and eroded user trust. Clearscale rebuilt the architecture on AWS using EC2, EBS, and Terraform, introducing automation, resilience, and simplified operations. The result: a stable, always-available platform for millions of users.

## Meet Our Hero:

This media discovery platform helps users find where to watch shows and movies across streaming services. But its fragile file-serving infrastructure, built on DRBD, caused outages and required manual failover. The lack of automation increased complexity and risk, making it difficult to scale and undermining user trust. The company needed a more reliable, cloud-based foundation to deliver a seamless streaming discovery experience.

## The Goal

- Replace DRBD with a reliable, cloud-native file-serving system
- Automate provisioning and management of infrastructure
- Improve availability and resilience of file services
- Reduce downtime and operational overhead
- Ensure a seamless experience for end users

## The Challenge

### Challenge 01

Fragile DRBD-based architecture caused outages and downtime

### Challenge 02

Manual failover processes slowed recovery and increased risk

### Challenge 03

Lack of automation made infrastructure error-prone and inefficient

### Challenge 04

Scaling the system to meet user demand was difficult

### Challenge 05

Reliability issues undermined user experience and platform reputation





## The Solution

Clearscale migrated the file-serving architecture to AWS and introduced automation for efficiency and reliability.

### Step 01: Rebuilding the File System

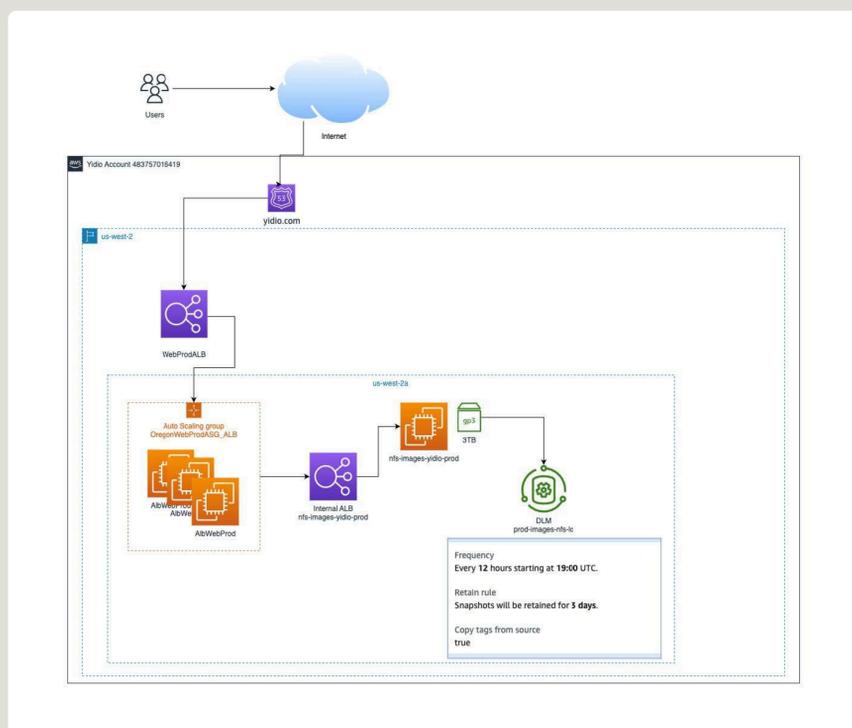
- Replaced DRBD with an AWS-based Network File System (NFS)
- Used Amazon EC2 instances with Amazon EBS volumes for high availability

### Step 02: Automation with Terraform

- Applied Terraform for Infrastructure as Code (IaC)
- Automated deployment of EC2, EBS, and related configurations
- Reduced human error and increased repeatability

### Step 03: Simplified Operations

- Introduced Amazon EFS for shared storage
- Streamlined user management with AWS IAM
- Created a flexible, maintainable foundation for ongoing operations



## The Impact

Eliminated outages caused by DRBD failures

Improved resilience with EC2 and EBS-backed NFS

Reduced operational overhead through Terraform automation

Faster provisioning with AMI images

Better user experience, as viewers can reliably find shows without interruption

## Turn Cloud Chaos Into Clear Results On AWS

Clearscale helps organizations break free from cloud chaos and experience clear results on AWS. If your infrastructure is slowing you down, let's rebuild it together.

Talk to an Engineer