



**ALPHA COGS**  
Grata Rerum Novitas



ROYAL  
OPERA  
HOUSE





# AlphaCogs ROH Project

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Alpha Cogs had the privilege to work on the video management solution for the Royal Opera House (ROH) creating a cost-effective solution for storing and easier managing of their video content, while enabling remote collaboration, search, review & approval, and archive management.

# The Problem

ROH departments formerly relied on a large number of non-integrated systems, posing a productivity and organizational challenge for their schedule. The same content could be stored in several components across the system, inaccessible to the user. In addition, each platform required trained specialists performing a lot of basic management tasks. This resulted in an inflexible, suboptimal and expensive way of working.

# The Solutions

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**Alpha Cogs assisted in the design and implemented a cloud-based media asset management solution, remotely accessible from any device via a web interface.**

**Simplicity was our priority, therefore, we came up with an intuitive user interface (UI) which enables even non-technical staff to perform their creative work too.**

**By adopting a serverless architecture, we eliminated the need for maintaining and managing complex and expensive servers, significantly reducing the cost of maintenance and increasing the scalability of the solution.**



# Applications & Technologies

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We leveraged the power of serverless architecture and other advanced technologies such as AWS Lambda, S3, EC2, API Gateway, CloudFront, Firewall Manager, as well as other applications ROH uses, to set up secure AWS Cloud & Private Network architecture for this project.

All the architecture has been created using a serverless framework with a well documented, organized structure and easy to reproduce creation and deployment of the entire system.

The UI was created using React library & typescript language. Our choice of technologies offers consistency across the whole solution and advantage of better maintenance, lower development costs and faster results for ROH.



# The Result

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A cost-effective, efficient, and user-friendly media asset management solution that enabled ROH to improve their management systems.

We believe that our approach to cloud-based media asset management, along with our use of serverless architecture and advanced technologies, represents a significant step forward and now ROH can take advantage of:





- The cloud technology for remote working, for added collaboration and adaptability
- The ability to record rehearsals and make them instantly available for playback through a web portal on a mobile device
- Almost a real-time accessibility to the content, enabling users to easily search, browse, and stream their desired video content without any lag or delay
- The entire architecture, in case of a disaster, could be recreated within minutes, thanks to the use of Serverless Framework that makes it possible to deploy the entire infrastructure on AWS in minutes, recreating a perfectly functional new system
- Scalable solution that could be easily tailored to the unique requirements of ROH