

# Developing and Hosting Multimedia Instructional Modules in the Cloud

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## Abstract

The development of multimedia instructional modules and their deployment in the cloud are discussed in this paper primarily from a technical rather than a cognitive perspective. First, an overview of the different types of modules is given. Second, a brief survey of the hardware and software available for the development of the modules is provided. Third, important technical considerations in producing the modules are discussed. Fourth, the different formats available for storing and streaming the modules are presented. Fifth and finally, the use of cloud resources to store, stream and catalog the multimedia modules is discussed, including the reasons for selecting a particular type of hardware, software and cloud service to develop and deploy the modules. The paper identifies and presents affordable hardware, software and cloud resources that are now available for the rapid development and hosting of instructional multimedia modules in the cloud.

**Keywords:** e-learning, multimedia, learning, technology, education