



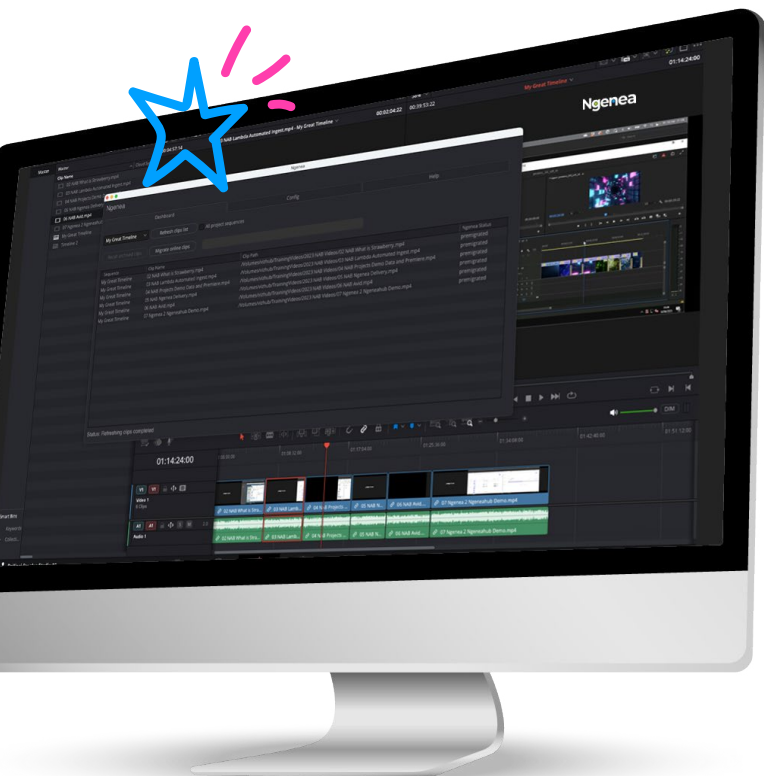
Ngenea & AWS Deadline Cloud for Burst Rendering

Burst to the cloud when you need it most

Work at Cloud Scale Without the Chaos

Studios increasingly rely on cloud rendering to handle peak demand, but when data movement, compute scheduling, and storage lifecycle are managed separately, performance drops and costs rise.

The integration of Ngenea with AWS Deadline Cloud [VM1.1] creates a fully orchestrated burst rendering workflow that enables data-intensive pipelines to extend into the cloud when needed. Data, compute, and cleanup are coordinated automatically so teams can scale rendering confidently without adding operational complexity.



The Problem:

Rendering at Scale Breaks the Flow

If you're using a mix of on-prem render farms and cloud resources, you already know the pain when you submit a render job:

- Assets are missing in the cloud.**
- Instances spin up too early or run for too long.**
- Data gets duplicated. Costs spiral.**

These issues usually stem from a lack of coordination between data, workflow, and cloud resources.

- **Limited asset visibility**
You can't easily see where files live or which are the latest versions
- **No Single Source of Truth**
Teams can't trust that they are using the latest frames - manual transfers break version consistency
- **Fragmented file movement**
Multiple tools are used to move data so tracking transfers and cleanup becomes difficult
- **Poor cloud compute usage**
Instances start too early or run too long - your costs increase
- **Uncontrolled cloud storage growth**
Temporary files remain scattered after jobs complete - your costs increase.

The Solution:

A fully automated burst rendering workflow

The Pixitmedia and AWS Deadline integration creates a single, coordinated workflow for cloud burst rendering. Data preparation, render execution, and post-render cleanup are orchestrated automatically between AWS Deadline, Ngenea [VM2.1], and multiple Pixstor systems – on-prem and cloud, so teams don't need to manage transfers or micromanage data movement outside of their render pipelines.

How it works

1. A render job is submitted via Deadline
2. Deadline instructs Ngenea to verify and prepare the required assets
3. Assets move automatically from on-prem Pixstor to Pixstor running in AWS
4. Deadline launches spot instances when data is ready
5. Renders run in the cloud
6. Instances shut down immediately after completion
7. Final frames return automatically to Pixstor
8. Temporary and working files can be cleaned up or moved to S3 based on policy

The entire lifecycle from preparation to cleanup is handled in the background without manual file management.

The Benefits:

Business and technical

- **Single Source of Truth**
All pipeline data is governed centrally so teams always have access to the latest versions
- **Automated Data Orchestration**
Asset preparation, recall, and cleanup happen automatically, removing reliance on manual processes and scripts
- **Coordinated Compute Usage**
Instances start only when needed and stop when jobs complete, which avoids idle compute and unnecessary spend
- **End-to-End Workflow Automation**
Pre-render preparation, render execution, and post-render cleanup operate as one coordinated workflow without ongoing human intervention
- **Controlled Cloud Storage Usage**
Temporary data can be stubbed or deleted automatically, helping prevent uncontrolled growth of cloud storage over time
- **Lower Operational Cost**
Fewer manual tasks, improved storage efficiency, and tighter control of compute usage contribute directly to lower overall operating costs



Powered by

Pixstor

Provides high-performance storage on-prem and in-cloud

Ngeneea

Manages intelligent data movement, recall, and Single Source of Truth governance

aws

AWS Deadline orchestrates render jobs and compute across on-prem and AWS infrastructure

Together, they enable seamless, scalable cloud rendering that remains predictable, governed, and efficient in demanding visual workloads.

Technical Requirements

Platform Support

- AWS Deadline with cloud-enabled render infrastructure
- Ngeneea Hub version 2.3+
- Pixstor on-prem and in-cloud

Connectivity

- Network access to Ngeneea Hub API
- 1Gb WAN or Direct Connect connectivity between on-prem and cloud environments.

Need cloud flexibility without sacrificing governance, performance, or cost control?

Connect with Pixitmedia to discuss your new rendering workflow.



aws

AWS Deadline Cloud is a fully managed service that simplifies render management for teams creating computer-generated 2D/3D graphics and visual effects for films, TV shows, commercials, games, and industrial design. With Deadline Cloud, you can set up, deploy, and scale rendering projects in minutes, so you can improve the efficiency of your rendering pipelines and take on more projects. For more information, please go to aws.amazon.com/deadline-cloud

pixitmedia
by DataCore

Pixitmedia by DataCore, is a leading provider of intelligent content and metadata management solutions for the media and entertainment industry. We go beyond storage to deliver a smarter ecosystem for media workflows, with end-to-end solutions that combine high-performance file, nearline, and archive platforms with metadata enrichment, indexing, and search. Enabled by data orchestration tools, our multi-tier technology simplifies content management and migration to ensure media assets are always where our customers need them.

Pixitmedia's innovative solutions integrate seamlessly into existing M&E workflows, optimizing efficiency and collaboration at every level – from ingest to archive to delivery. With Pixitmedia, content is always searchable, secure, and available whenever it's required.

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