# AWS Elastic Transcoder

# What is Elastic Transcoder ?

- Amazon Elastic Transcoder lets you convert digital media stored in Amazon S3 into the audio and video codecs and the containers required by consumer playback devices.
- For example, you can convert large, high-quality digital media files into formats that users can play back on mobile devices, tablets, web browsers, and connected televisions.

# Components

Elastic Transcoder has three components:

- Pipelines
- Jobs
- Presets

# Pipelines

- **Pipelines** are queues that manage your transcoding jobs.
- Elastic Transcoder begins to process jobs in the order in which you add them to a pipeline.
- Typically, you'll create at least two pipelines, one for standard-priority jobs and one for high-priority jobs. Most jobs go into the standard-priority pipeline;
- You use the high-priority pipeline only when you need a file to be transcoded immediately.

# Jobs

- **Jobs** specify the settings that aren’t included in the preset,
- for example, the file to transcode and whether to create thumbnails. Each job converts one file into one different format.
- When you create a job, Elastic Transcoder adds it to the pipeline you specify. If there are already jobs in the pipeline, Elastic Transcoder begins processing the new job when resources are available.

# Presets

- **Presets** are templates that specify most of the settings for the transcoded media file.

- Elastic Transcoder includes some default presets for common formats. You can also create your own presets. When you create a job, you specify which preset to use.

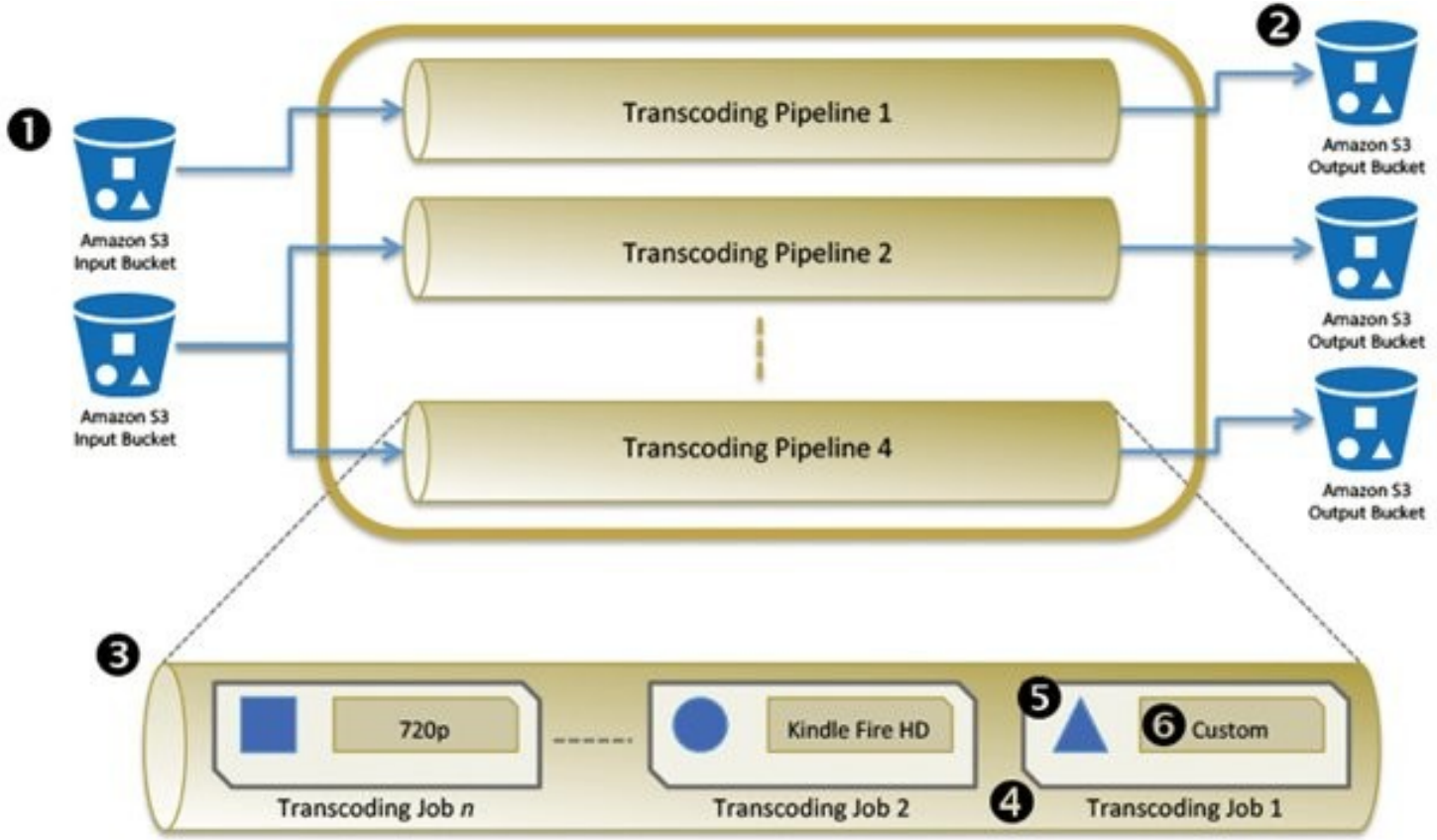
# Elastic Transcoder

- With Amazon Elastic Transcoder, developers simply use the web-based console, service API or SDKs to create a transcoding job that specifies an input file, the transcoding settings and output files.
- This eliminates these three complexities: First, there is no need to buy, configure or manage underlying transcoding software.
- Second, Amazon Elastic Transcoder has pre-defined presets for various devices that remove the need to find the right settings for different devices through trail and error.
- Finally, Amazon Elastic Transcoder automatically scales up and down to handle customers workloads.
- It also enables customers to process multiple files in parallel and organize their transcoding workflow using transcoding pipelines.

# Elastic Transcoder

- Create a transcoding pipeline that specifies the input amazon s3 bucket, the output Amazon s3 bucket and storage class, and an AWS IAM role that is used by the service to access your files.
- Create a transcoding job by specifying the input file, output files and transcoding presets to use(you can choose from a set of pre-defined transcoding presets) for example 720p or create your own custom transcoding preset.
- While you have transcoding jobs running on Amazon Transcoder, you can
- Automatically receive status of your transcoding jobs via notifications.
- Query the status of transcoding jobs
- Manage your jobs by stopping, starting or cancelling them.

# Elastic Transcoder



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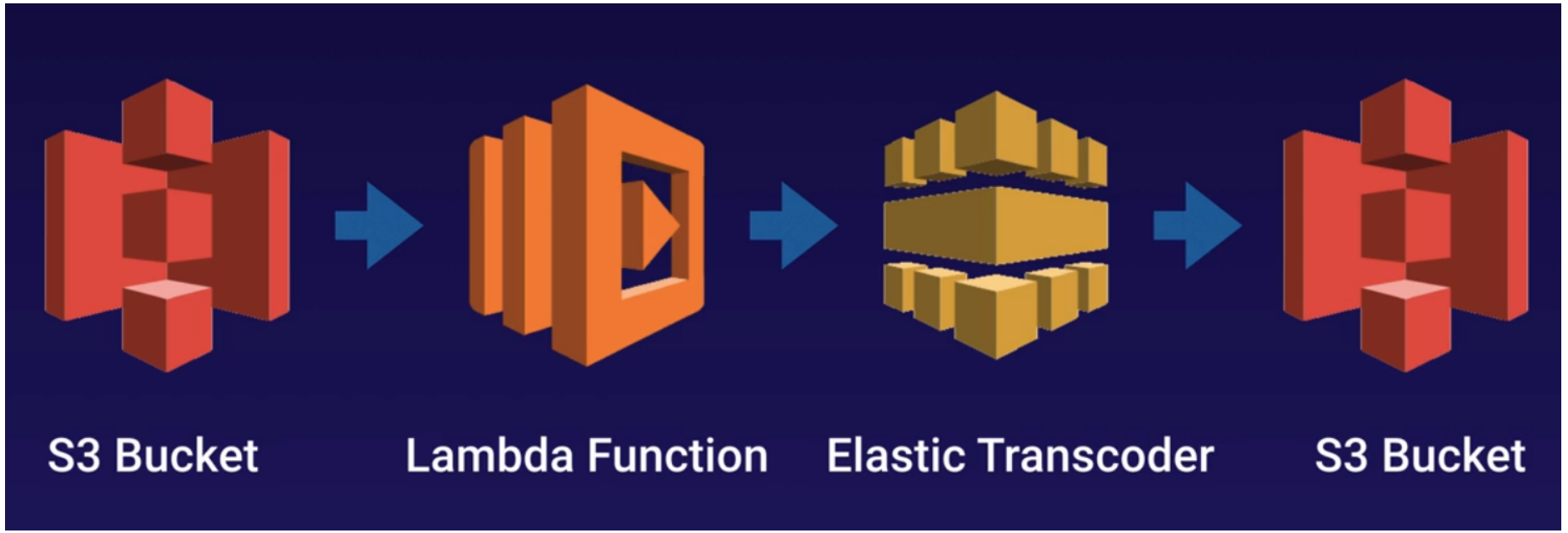

# Exam Tips

- Elastic Transcoder is Media Transcoder in the cloud.
- Convert media files from their original source format into different formats that will play on smartphones, tablets, PCs , etc.
- Provides transcoding presets for popular output formats, which means that you don’t need to guess about which settings work best on particular device
- Pay based on the minutes that you transcode and the resolution at which you transcode.