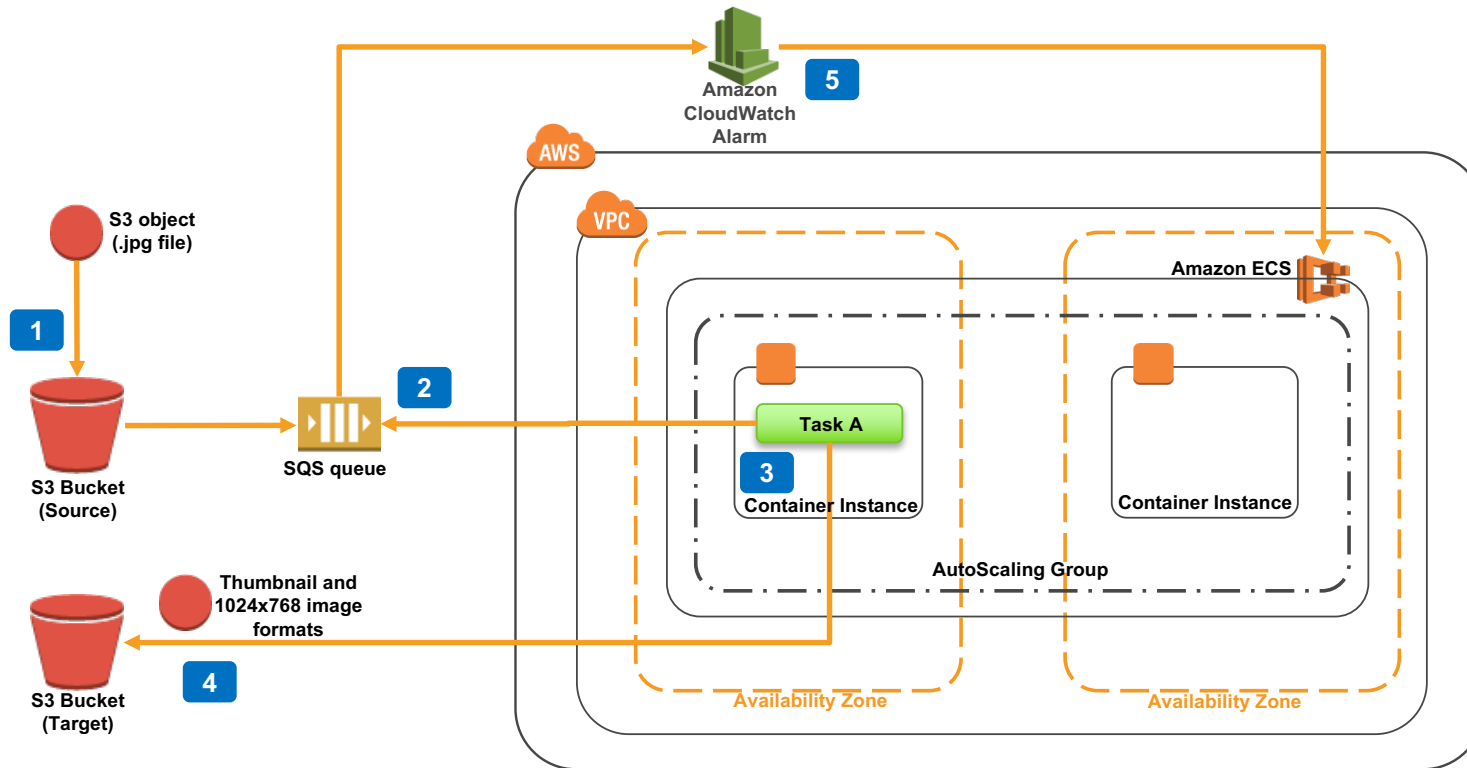


# Amazon ECS Batch Processing

Build a batch processing framework to automate your batch jobs

This diagram shows how to use Amazon S3, Amazon SQS, and Amazon ECS to build an automated batch processing framework.



- 1 An Amazon S3 object (a .jpg file) is inputted in the Amazon S3 Bucket that serves as the source bucket for batch jobs.
- 2 When the batch job is inputted into the Amazon S3 Bucket (Source), an event notification is sent to an Amazon SQS queue with the details of the object.
- 3 The Amazon ECS Task (batch worker) polls the Amazon SQS queue for new jobs (Amazon S3 objects).
- 4 If a job is available for processing, the task picks it up (a .jpg file) and processes it (generates a thumbnail and specific image format).
- 5 Cluster capacity (the number of tasks in the ECS service) is scaled up / down based on Amazon CloudWatch Alarms. The metric used for scaling is the number of messages in the SQS queue.



## AWS Reference Architectures