We have been asked to provision a cost-effective AWS infrastructure for a new social media application development project for 50,000 single-region users.

Here are some of the design assumptions:

* 10% of the user population (or 5,000) will access the media application concurrently
* Each user will spend 30 seconds per page
* Each page could make up to 30 calls
* Each page will contain 30 MB of content (2/3 of them are static and will be served by S3 through CloudFront)

$8,000-$10,000