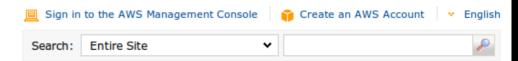
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parallel R
in the cloud
two lines of code

no kidding!









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syntax...

require(segue)

myCluster <- createCluster()</pre>

contratulations. we've built a hadoop cluster!

more syntax...



parallel apply() on lists:

base R:

lapply(X, FUN, ...)

segue:

emrlapply(myCluster, X, FUN, ...)

howzit work?

emrlapply()



list is serialized to CSV and uploaded to S3 – streaming input file

function, arguments, r objects, etc are saved & uploaded

EMR copies files to nodes – mapper.R picks them up

CSV is input to mapper.R applies function to each list element

output is serialized into emr part-xxxxx files on s3

part files are downloaded to R and deserialized

deserialized results are reordered and put into a list object

when to use segue...

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embarrassingly parallel

cpu bound

apply on lists with many items

object size: to / from s3 roundtrip



segue project page http://code.google.com/p/segue/

google groups
http://groups.google.com/group/segue-r