Teaching R in the Cloud

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Cloud Computing is holding the promise of democratizing access to computing infrastructures but the question "How will we bring the Infrastructure-as-a-Service paradigm to the statistician's desk and to the statistics classroom?" has remained partly unanswered. The Elastic-R Software platform proposes new concepts and frameworks to address this question: R, Python, Matlab, Mathematica, Spreadsheets, etc. are made accessible as articulated, programmable and collaborative components within a virtual and immersive education environment. Teachers can easily and autonomously prepare interactive custom learning environments and share them like documents in Google Docs. They can use them in the classroom or remotely in a distant learning context. They can also associate them with on-line-courses. Students are granted seamless access to pre-prepared, controlled and traceable learning environments. They can share their R sessions to solve problems in collaboration. Costs may be hidden to the students by allowing them to access temporarily shared institution-owned resources or using tokens that a teacher can generate using institutional cloud accounts.

References


[5] aws.amazon.com