



Poster: Controlling the Elasticity of Web Applications on Cloud Computing

Michel Albonico, Jean-Marie Mottu, Gerson Sunyé

► To cite this version:

Michel Albonico, Jean-Marie Mottu, Gerson Sunyé. Poster: Controlling the Elasticity of Web Applications on Cloud Computing. SAC, Apr 2016, Pisa, Italy. hal-01317728

HAL Id: hal-01317728

<https://hal.science/hal-01317728v1>

Submitted on 18 May 2016

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

Copyright



SAC 2016
31st ACM Symposium on
Applied Computing

Pisa, Italy

Controlling the Elasticity of Web Applications on Cloud Computing

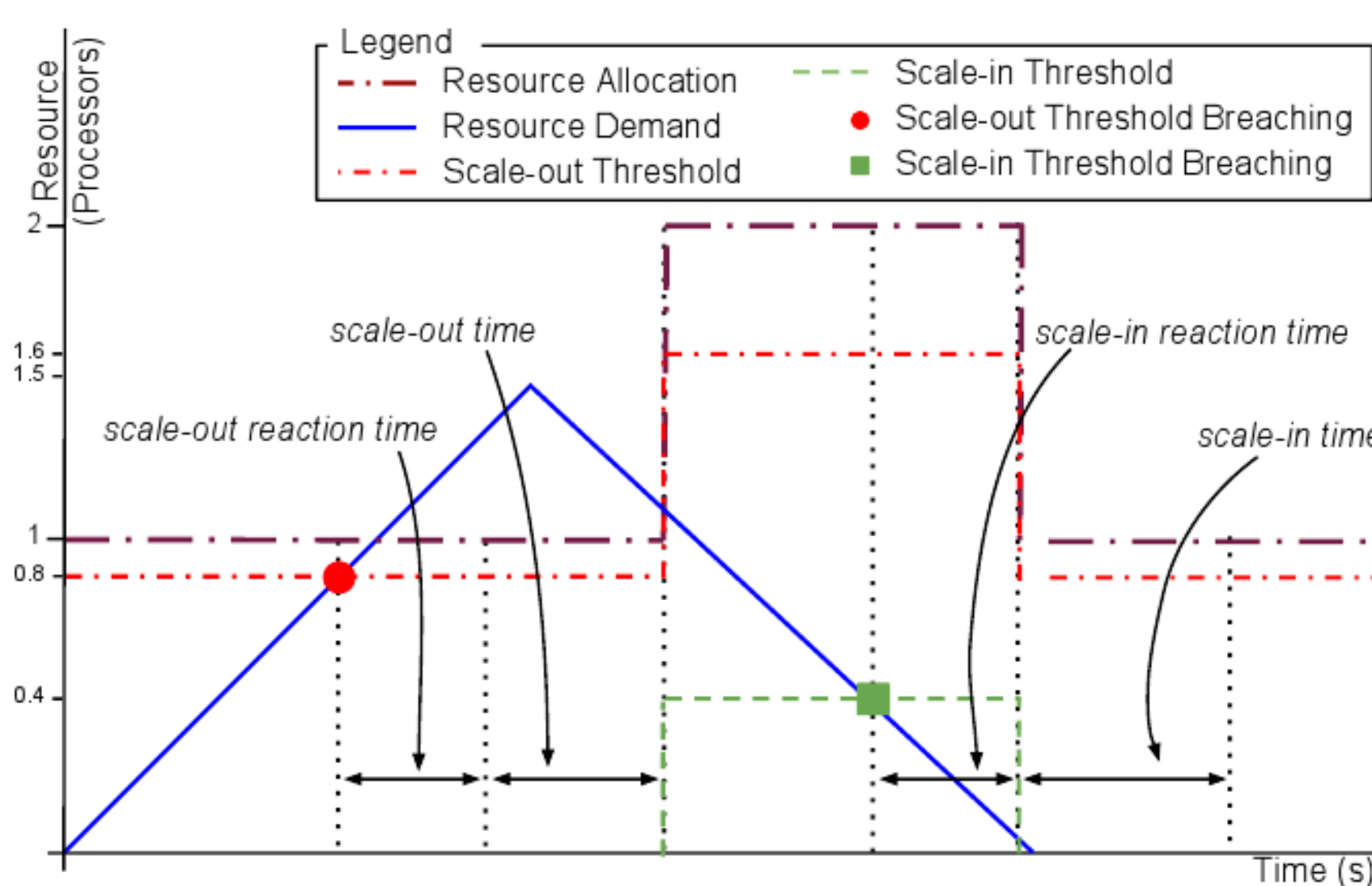
Michel Albonico, michel.albonico@utfpr.edu.br, AtlanMod Team (Inria, Mines Nantes, LINA), Nantes, France / UTFPR, Brazil

Jean-Marie Mottu, jean-marie.motu@inria.fr, AtlanMod Team (Inria, Mines Nantes, LINA), Nantes, France / University of Nantes

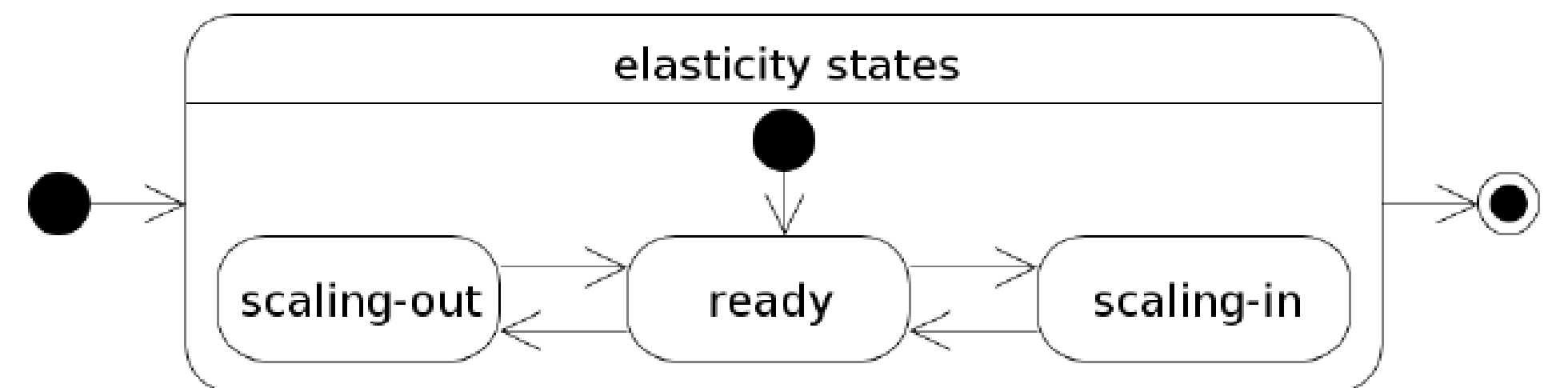
Gerson Sunyé, gerson.sunye@inria.fr, AtlanMod Team (Inria, Mines Nantes, LINA), Nantes, France / University of Nantes

1 Elasticity

The ability of a cloud infrastructure modifying its resource configuration according to application demand.



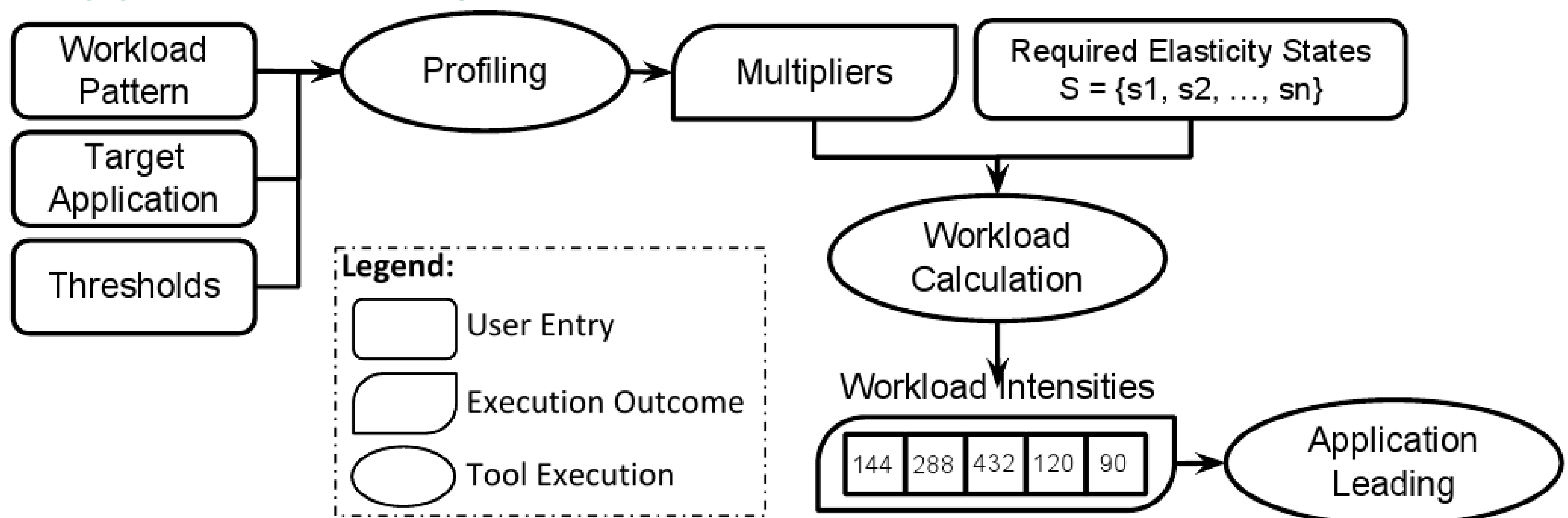
2 Elasticity States



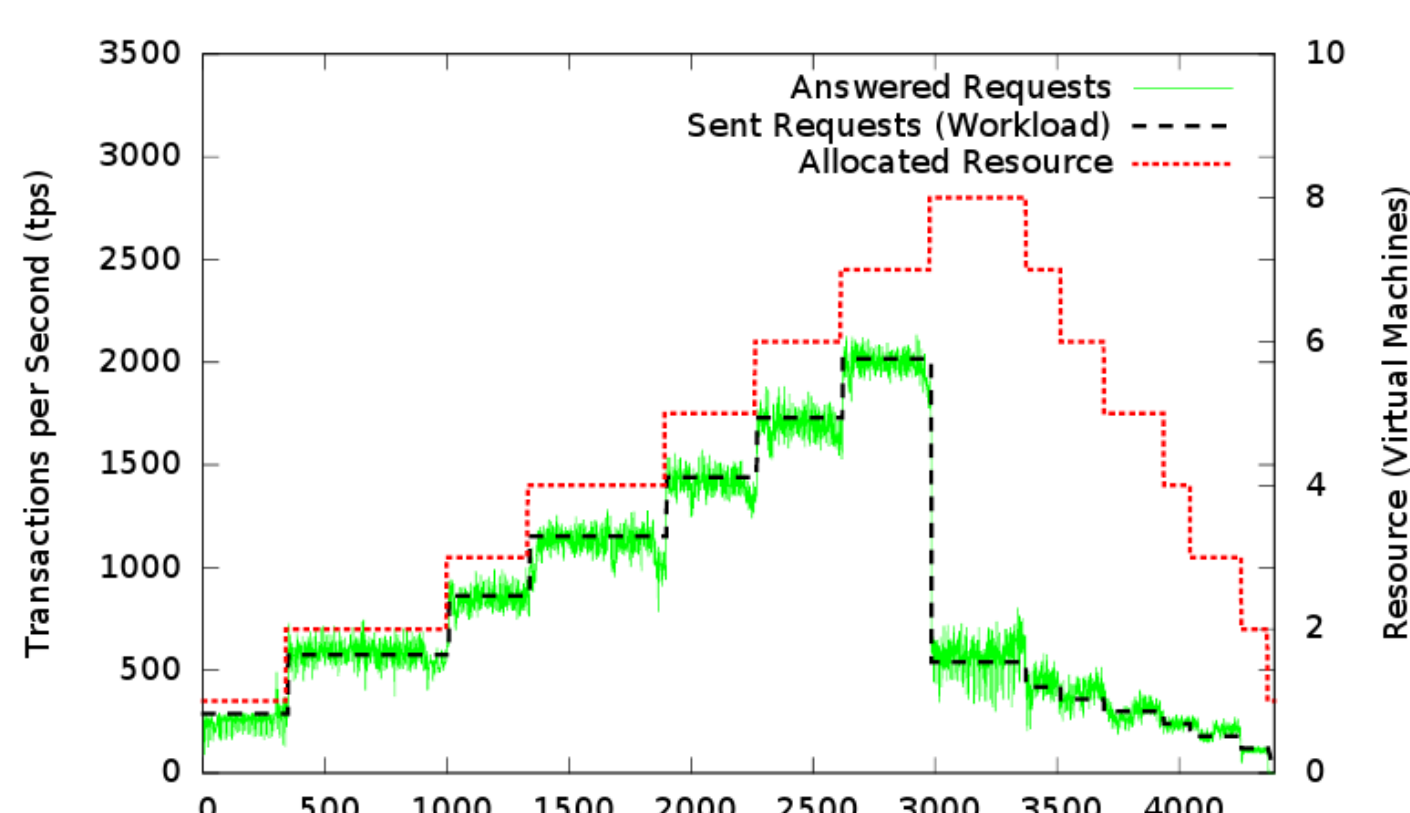
3 Research Problem

- Specific sequence of elasticity states, e.g., regression testing, bug reproduction, etc.
- Control the required sequence of elasticity states.

4 Our Approach Workflow



5 Experiment Result



6 Conclusion and Future Work

- Our approach leads the application through the required elasticity states;
- It does not stress the application;
- It requires the elasticity states in a fast way.
- **Future work:**
 - Test aspects, such as test procedure and test oracle.