MOCAP
Measuring performance of cloud-based platform for interactive TV services delivery

FED4FIRE
FEDERATION FOR FIRE PLUS

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Background & motivation

- Hard to test our platform in a real **large-scale environment** with a guarantee that existing end-users would not experience any bad side-effects

- Always keen to **improve** our product and deliver highest possible quality of service

- Obtain **useful information** about the bottle necks and plan future upgrades

What is Castoola platform?

Castoola Platform is cloud-based platform for serving of interactive TV services based on HbbTV ("Hybrid broadcast-broadband TV") technology. Targeting TV operators and broadcasters, which would like to make their TV channel or network interactive, it is offering viewers the possibility to consume rich broadband content on top of the linear broadcast television.

Goals & objectives

- To simulate high number of end-user requests from the Virtual Wall testbed to the test instance of our platform

- To execute the experiment on 15 test scenarios on multiple different ranges of number of end-user requests:
  - up to 1.000 end-users
  - up to 5.000 end-users
  - up to 10.000 end-users
  - up to 100.000 end-users
  - up to 500.000 end-users
  - up to 2.000.000 end-users

Set-up of the experiment

- Virtual Wall testbed (1 master node, 50 testing nodes)

- Test instance of Castoola Platform in the cloud (DigitalOcean)
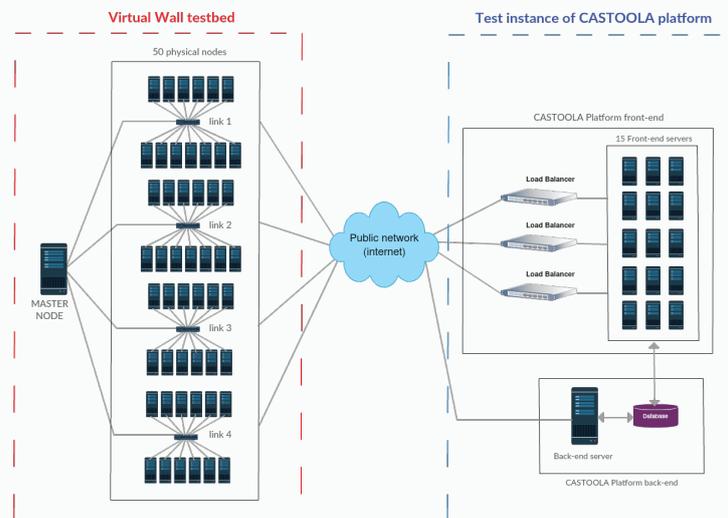

Conclusion & business impact

- Overall satisfied with the results
- Back-end part of the platform needs improvement
- Lots of useful information about the performance and bottlenecks
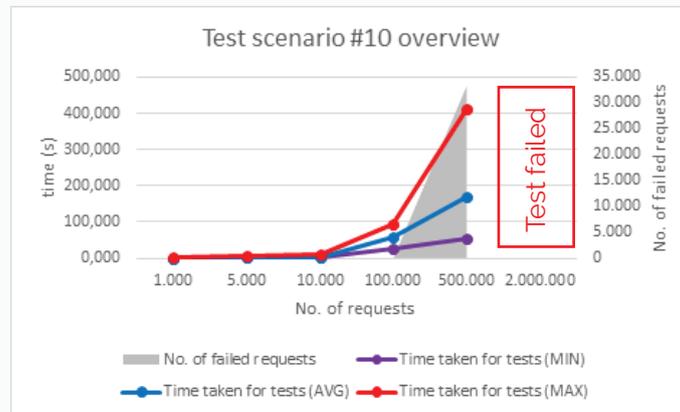- Future development activities to be planned based on the results

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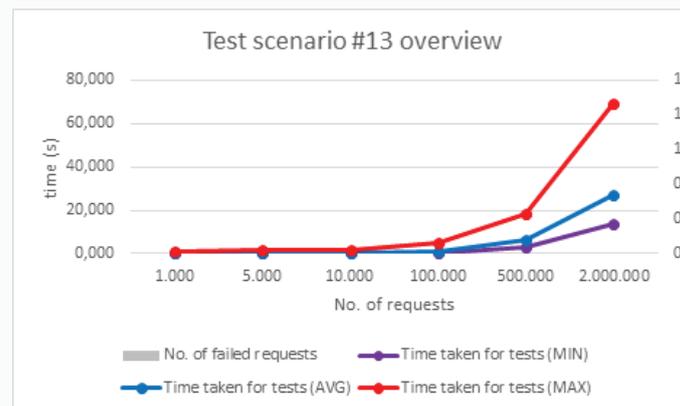Plese 9a, SI-9000 Murska Sobota
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Results
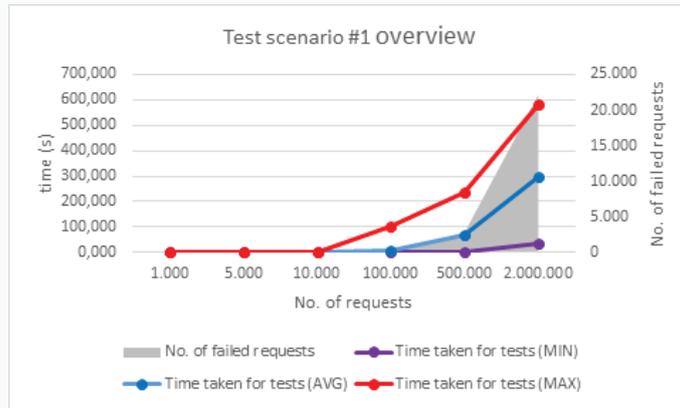
Example of the result on the front-end part of the platform

Example of the result on the back-end part of the platform (complex operation)

Example of the result on the back-end part of the platform (static cached file)

Thanks to the experiment we conducted within Fed4FIRE, Castoola platform will be able to serve as many as needed end-users with rich interactive TV services and will make old-fashioned linear TV more attractive and targeted, in the future.

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ready to interact