E-Assessment mit Virtual Desktop Infrastructure

Wishes and Potential Approach

SWITCH

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What we know so far from ETHZ

ETHZ …

- … has grown a solid infrastructure, engineering and processes regarding e-Assessment

- .. takes a multi-layered approach to e-Assessment (high level of device control, room control, process control)

- … has a highly automated system and failover infrastructure like ESX redundancy, screen capturing etc.

- … has staff and years of expertise in running competence-oriented e-Assessments

Discussion

- We heard some of you asking for competence-oriented e-exams. What are the underlying "**real world problems**" that make *you* ask for a technical service?

    - Is it important for you?

    - Where is the urgency?

    - Is this idea potentially fundable?

Today (de-centralized responsibilities)

SWITCH

University

WiFi Network
LMS Operation
Exam Creation (in LMS)
Provision of client HW
Provision of spare client HW
Prepare clients (Kiosk, RD-SW)
Adequate Exam Location
Examinator (Prof.)
Exam supervision
Application licensing
Guidelines and Policies
Emergency criteria, alternatives
Naked desktop template (no Apps)
Desktop Image Adaption (Apps…)
Desktop Image test & acceptance
Image duplication
Portal (AAI, Linking User-Desktop)
Virtualization Engineer
Technical Service Coordinator
Centralized Login Infrastructure
Lots of add. CPUs/GPUs/RAM/HD

Central, funded Service Provider

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☛ What could be done
as a central service ?

LET
SEB Software
Expertise

SWITCH
SWITCHengines

Possible Long-term Vision of a Service

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☞ We could take a step-by-step approach to cope better with complexity and find the ideal distribution of tasks between a university and a service provider. This can serve as a decision support for a possible service.

LET
SEB Software Expertise

SWITCH
SWITCHengines

Potential approach – Pilot Project

Scope
- Basic desktop image; process to multiply them
- Virtualization, Hosting, Screen transportation
- Central gateway (login; session assignment…)
- HEI: Customize image regarding software, data, SEB config according to your (and your examinator's) requirements; image testimg and acceptance
- HEI: LMS configuration, integration, results collection
- HEI: BYOD setup (incl. SEB Kiosk and Remote Client)

Out of scope:
- Highly automated processes
- High availability
- Surveillance/Fallback plan (session recording)
- Login convenience
- Licensing

Goal: Build knowledge, experience. Trust and decision support for a federated project & service.

Possible vision "VDI e-Exams" as automated, established and funded service ("1 Mio+ range")

2018

Next 2 years

Finally…

Who of you would be ready and fully supported by your institution (time capacity, exam opportunities, risk tolerance) to participate in a pilot project?

- Your role would include the participation in several workshops as well as active preparation and execution of pilot e-Assessments on a basic ("in scope") level.
- You would be the "ambassador" to coordinate and convince your school for such a (future) service.

Volunteer(s):

- …
- …
- …

As soon as we have got your commitment and a clearer understanding of your needs, we will take back our learnings and discuss it internally at SWITCH to ask for approval for a pilot.