

Back to the Future!

Position Statement

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UvA



Private <> public cloud

- Nowadays scientific computing and data is dwarfed by commercial & cloud
 - Measured in hectares and hundreds of megawatt
 - E.g. film industry, google, twitter, amazon, etc
- Data challenges there are equally big
- I do not believe that the scientific world will continue getting its data centers!
 - There is also no scientific water, scientific power
 - Current generation is the last
 - Except very special purpose...
- Scientific simulation/data processing software is not yet optimized

Security & Privacy

- Under which law is cloud operating?
- Ensure privacy and security where needed
- I believe there is a place for scientific local/national cloud center with a cloud firewall to public clouds for scalable processing where appropriate

Other Remarks

- Will going to public clouds be more cost effective?
- What will be the competitive edge for scientists?
- Design also for failure and “non robustness”