# Open Issues on Distributed Authorization for Cloud Infrastructure

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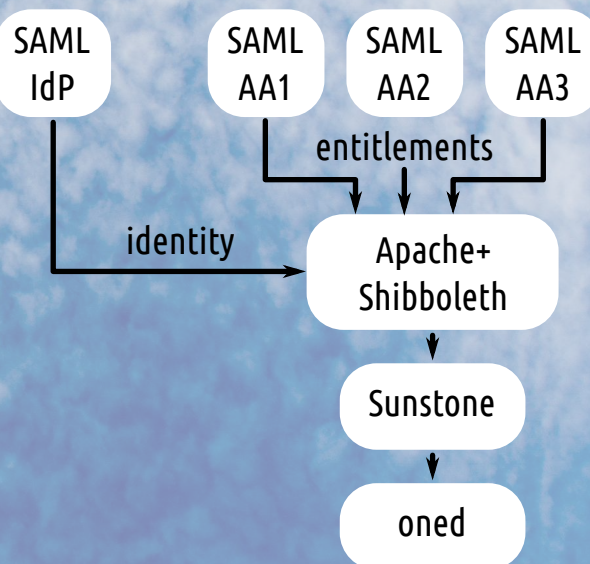Maarten Kremers (SURFnet), Andrea Biancini (RETI), Slávek Licehammer (CESNET)

Goal

Achieve distributed authorization of OpenStack and OpenNebula in SAML federations using SAML IdPs for Identity and SAML AAs for Virtual Organization and Group Management

Showcases

OpenStack
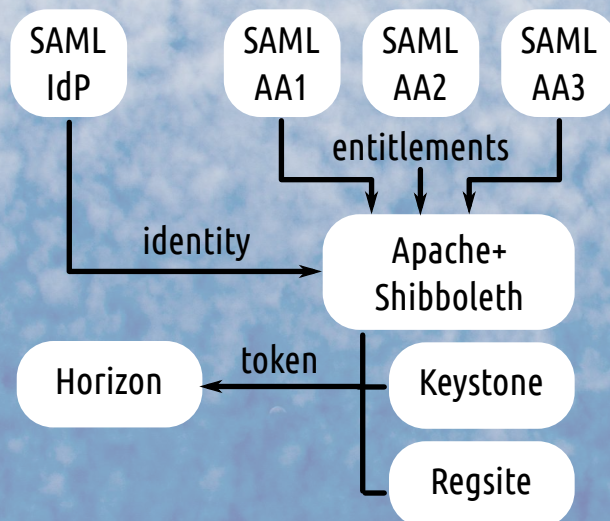
OpenNebula

Open Issues

CLI access

The Web interface is not the only one necessary.
Access to Cloud APIs , VPN, VNC, etc. are required. However, these are not easily supported by SAML. Candidate solutions: Moonshot and fixed tokens

Deprovisioning

Resources has to be cleared up once the user no longer has access to the system.
A notification scheme has to be invented.

Scoped entitlement attribute

A standard, scoped way of transferring authoritative information is necessary
Proposal: eduPersonScopedEntitlement

References
[1] Mihály Héder, Szabolcs Tenczer, Andrea Biancini (2015). Collaboration Between SAML federations and OpenStack clouds. Submitted to IJCIS journal.
[2] Boris Parak (2015). Using OpenNebula with SAML-based Authentication and Authorization, author manuscript, CESNET.

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