



Authentication and Authorisation for Research and Collaboration



WaTTS service to provide proxy certificates

Demo

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WaTTS

- OIDC TTS service
- KIT in-house development, Erlang
- Plugin based, easily extendable
- Enables functionality according to attributes and attributes' LOA
- Already provides many services
 - SSH
 - S3
 - X.509
- Many Python plugins already available
- Open source, Apache 2.0
- Last demo: WaTTS ssh plugin to deploy keys on OKEANOS

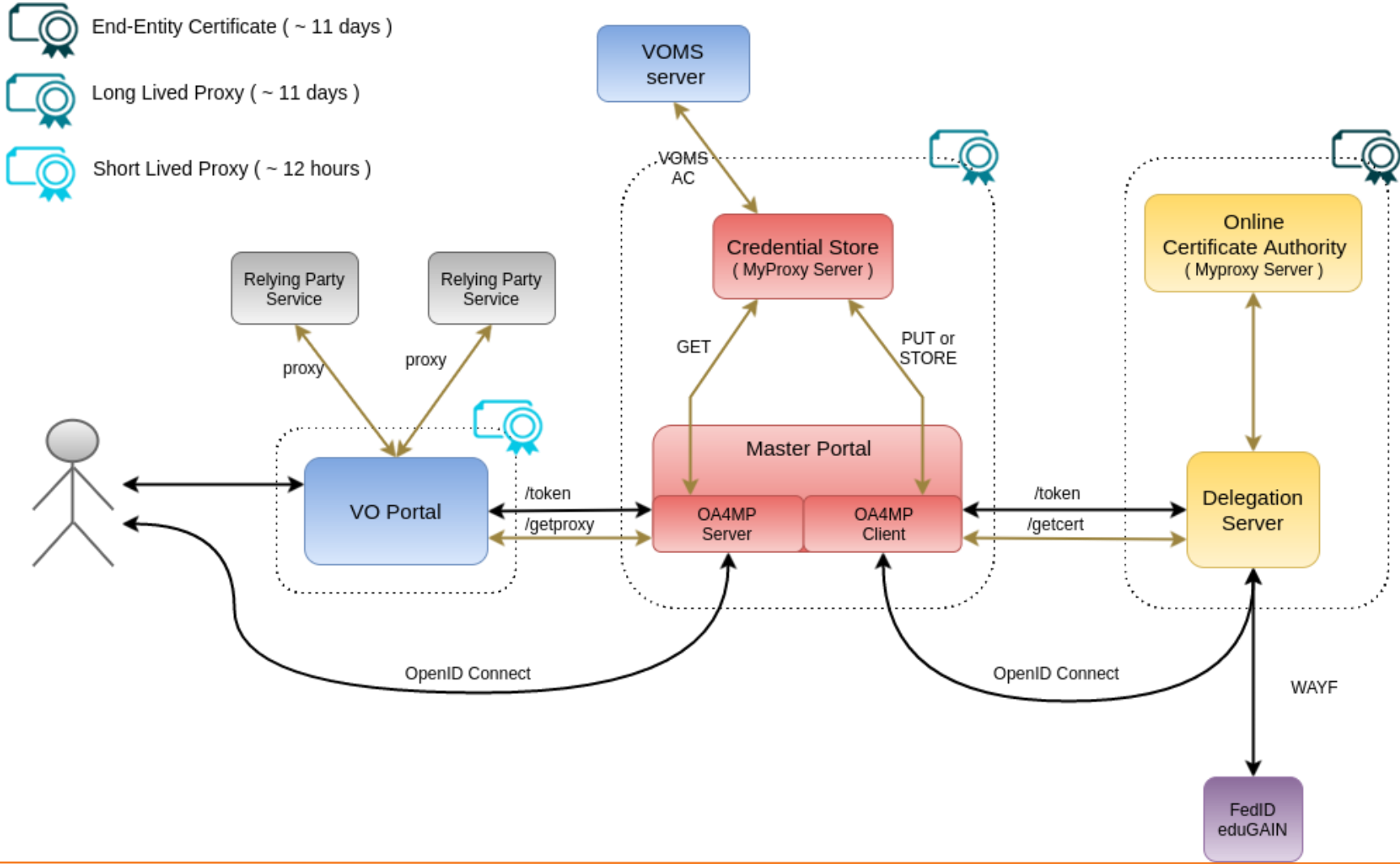
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- New development → x.509 IOTA certificates using RCauth

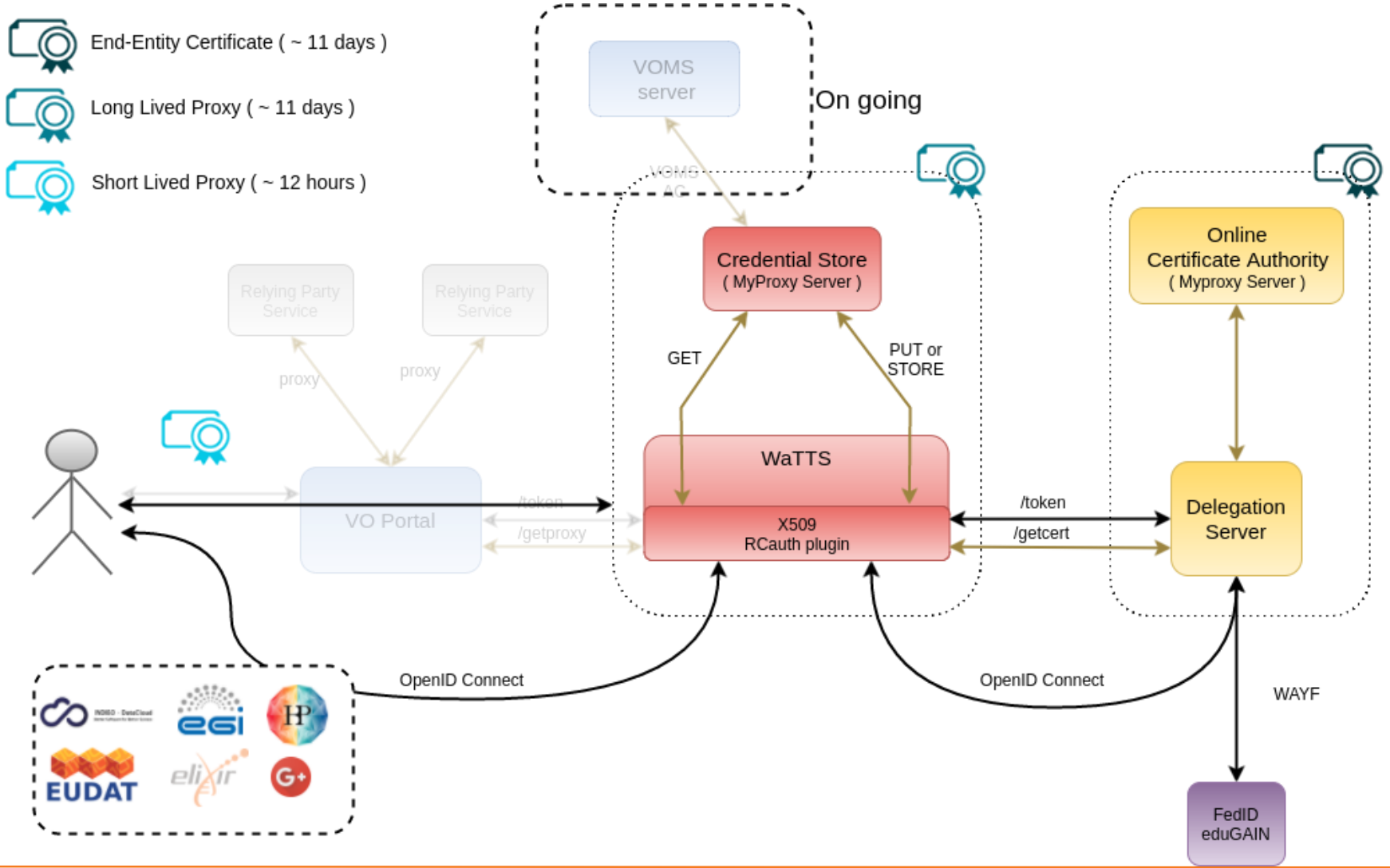
Goals

- OIDC flow, with OIDC providers (EGI, HBP, B2ACCESS...)
- “User uses its OIDC token to get a IOTA proxy certificate”
- New certificate is obtained from RCauth only when needed (or has expired)
- Simple interface (with web frontend) to receive (VOMS) proxy certificate
- CLI access to get a proxy certificate (with OIDC access token)
- Using initial OIDC authentication to get a proxy, not the one used for RCauth
 - Although, if supported by RCauth, one can use the same

Current implementation



WaTTS implementation



Key differences (vs. Master Portal)

- Differences (worth mentioning)
 - WaTTS is not an OIDC provider, but a service
 - => WaTTS support many OIDC providers
 - WaTTS uses a new flow for proxy certificate distribution
 - Web client
 - CLI interface supported
 - WaTTS is a “one stop shop” for token translation
 - SSH, S3, x509..
 - <https://watts-dev.data.kit.edu>
 - <https://github.com/urost/cli-get-proxy>
- Future and on-going development
 - Integration with B2Access and EGI-CheckIn
 - Possibly within EOSC-Hub?