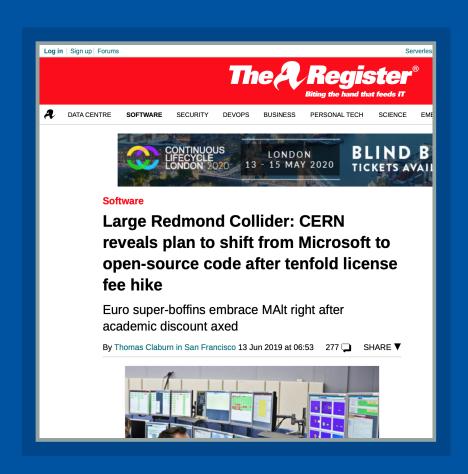
CERN's Identity and Access Management

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A Journey to Microsoft Alternatives



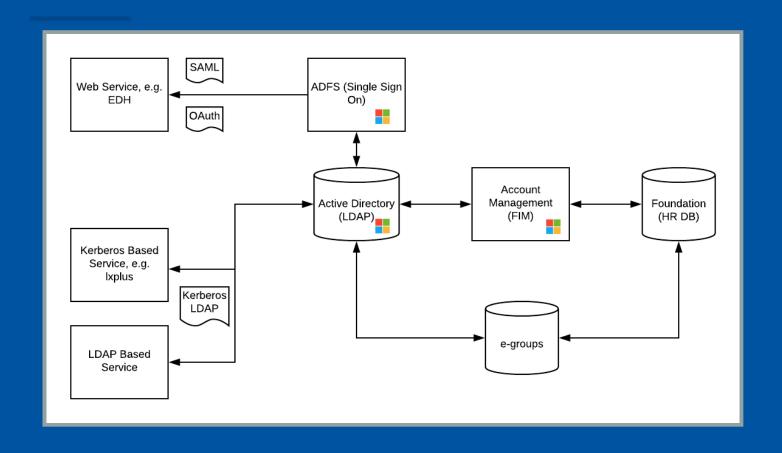
Why change?

- Microsoft based Identity Management stack strongly affected by License Fee price increase
- Opportunity to harmonise CERN and WLCG Authentication
 & Authorization
- Focus on Data **Privacy** requires new authorization model

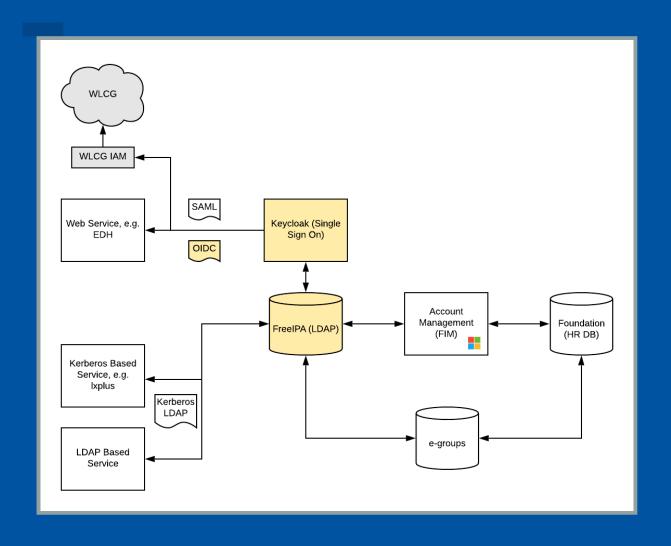
Principles of change

- Identify suitable **alternatives** based on use cases
- Prioritise Free and Open Source software
- Stick to **standards**
- Contribute back and share knowledge

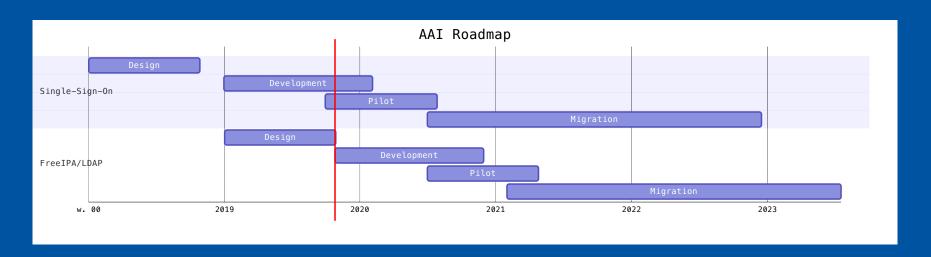
Before



After

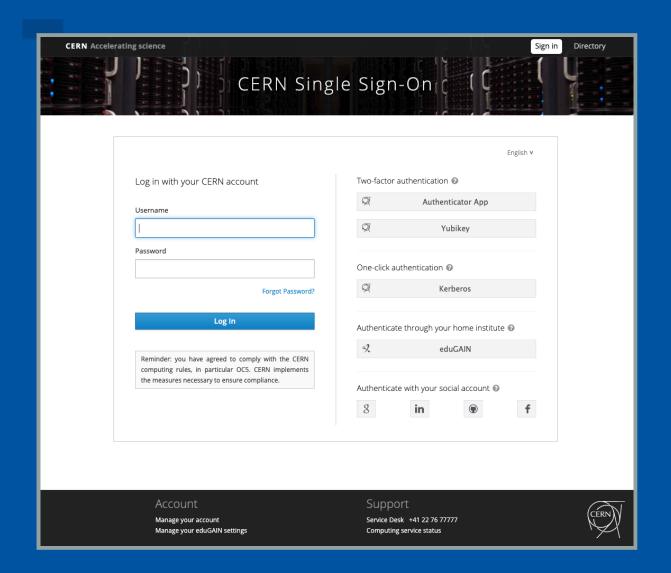


Timeline

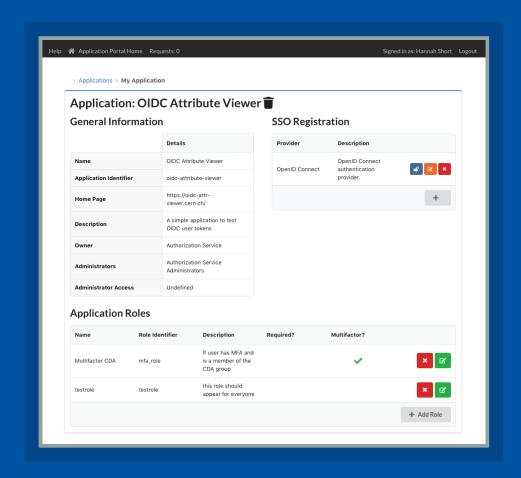


What's changing?

New Look



Roles



Application owners decide on roles for their application and map them to user groups

Tokens

OIDC support in addition to SAML

```
"iss": "https://auth.cern.ch/auth/realms/cern",
"aud": "oidc-attribute-viewer",
"sub": "hshort",
"typ": "ID",
"cern person id": 777777,
"name": "Hannah Short",
"preferred username": "hshort",
"cern roles": [
  "testrole",
 "mfa role"
"given name": "Hannah",
"cern preferred language": "EN",
"family name": "Short",
"email": "hannah.short@cern.ch",
"eduperson orcid": "0000-0003-2187-0980",
"cern upn": "hshort"
```

Researcher Lifecycle Management

- Account linking
 - Retirees to maintain access without CERN accounts
- ORCID Researcher Identifiers

Get involved!

- 1. Become pilot users of the new Single-Sign-On
- 2. Enable OAuth2/OIDC for your use cases (web, grid)
- 3. Follow the Malt Project's progress