

New features in LemonLDAP::NG





Speaker





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LemonLDAP::NG LDAP Tool Box LDAP Synchronization Connector **FusionIAM** W'Sweet



KPTN - https://kptn.org DonJon Legacy Improcité



Worteks (\varente{s}()



Service

Complex infrastructures, cloud, mail, authentication, security

- Studies, audit & consulting
- Technical expertise
- Support
- Training
- R&D and innovation

Fdition



Collaborative portal



Common developement platform



Identity and Access Management

Partners













LemonLDAP::NG



Web Single Sign On

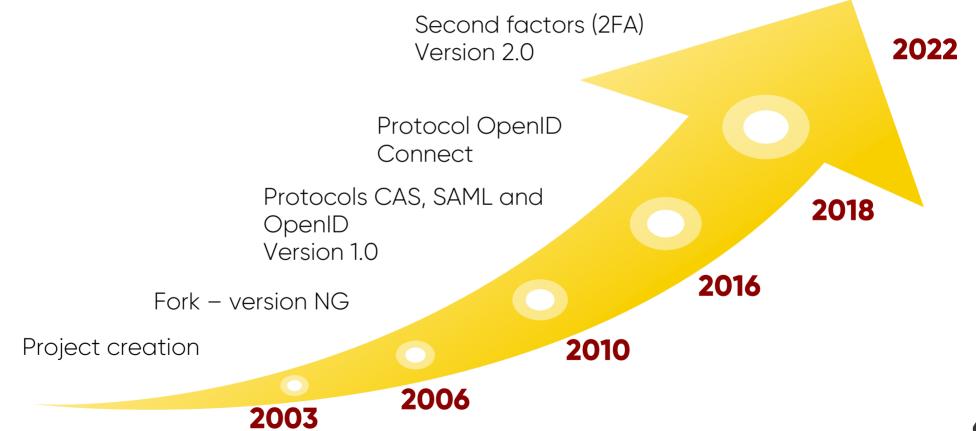






Project history







Main features





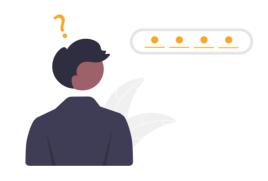
SSO & Access Control



Second Factor (2FA)



Application menu



Password management



CAS / SAML / OIDC

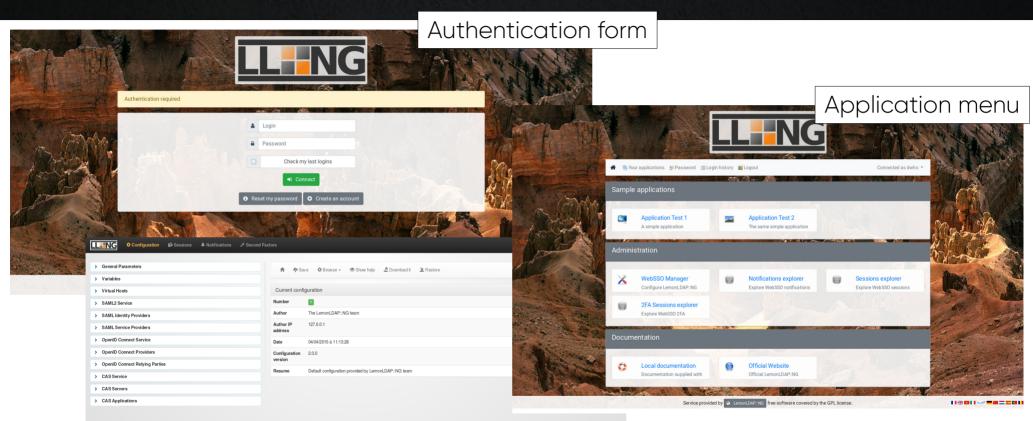


Graphical customization



Screenshots





Administration interface



100% Free Software



- License GPL
- OW2 project
- Forge: https://gitlab.ow2.org/lemonldap-ng/lemonldap-ng
- Site: https://lemonldap-ng.org
- OW2 Community Award in 2014
- SSO component of FusionIAM project: https://fusioniam.org/





What's new?



Back to the future



- Version 2.0 released in december 2018
- Version 2.0 features presented at OW2Con'19
 https://www.worteks.com/opensource/conferences/2019-06-12-ow2con/
- In 2022, version 2.0 is still the stable version, but got many improvements since the first release
- Current minor release: 2.0.14



Command Line Interface



- lemonldap-ng-cli (configuration management):
 - New actions to save and restore a configuration
 - "rollback" action to remove latest configuration and use the previous one
- lemonIdap-ng-sessions (sessions management):
 - Inspect all sessions (SSO and persistent)
 - Search on any session key
 - Edit and delete
 - Specific actions for Second Factors and OIDC consents



Manager API



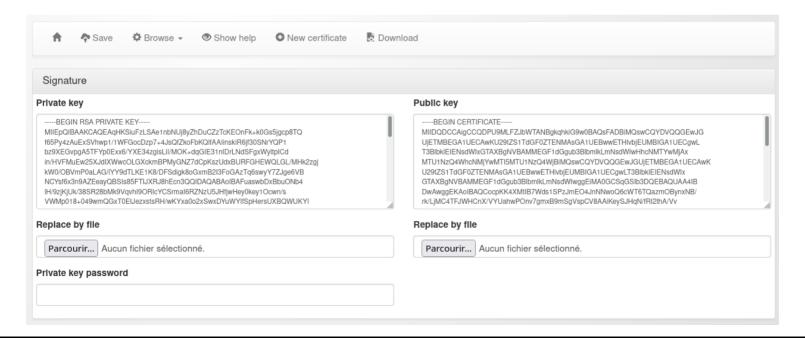
- REST web services to edit configuration
- Documented with OpenAPI: https://lemonldap-ng.org/manager-api/2.0/
- Available operations:
 - Add/edit/delete SAML Service Providers
 - Add/edit/delete OIDC Relying Parties
 - Add/edit/delete CAS applications
 - Check API status
 - Manage 2FA registered for a user
 - Edit application menu (categories and applications)



SAML protocol



- SHA256 is now the default algorithm (instead of SHA1)
- Possibility to directly generate a certificate in Manager instead of publishing only the public key





OpenID Connect protocol



- Refresh tokens: linked to current session or long life tokens (offline mode)
- New OAuth2 endpoint: Introspection
- Possibility to publish claims in ID Token and Access Token
- New grants:
 - Resource Owner Password Credentials Grant
 - Client Credentials Grant



Hooks



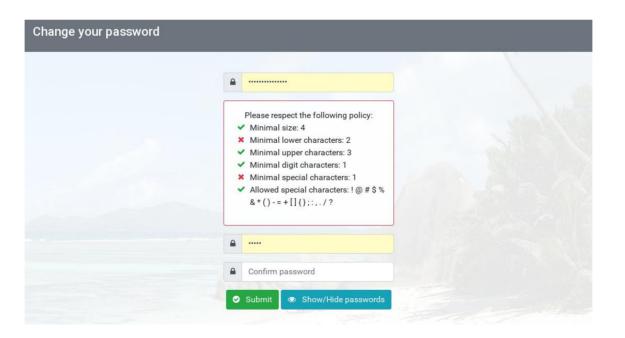
- A new hook system was introduced, allowing to adapt requests/responses outside the core of LemonLDAP::NG:
 - OpenID Connect hooks: oidcGotRequest, oidcGotClientCredentialsGrant, oidcGenerateCode, oidcGenerateUserInfoResponse, oidcGenerateIDToken, oidcGenerateAccessToken, oidcResolveScope
 - SAML hooks: samlGotAuthnRequest, samlBuildAuthnResponse, samlGotLogoutRequest, samlGotLogoutResponse, samlBuildLogoutResponse
 - CAS hooks: casGotRequest, casGenerateServiceTicket, casGenerateValidateResponse
 - Password hooks: passwordBeforeChange, passwordAfterChange



Password Policy



- A local password policy can now be configured (minimal size, type of characters, ...)
- A graphical form shows which criteria are filled





Second factors (2FA)



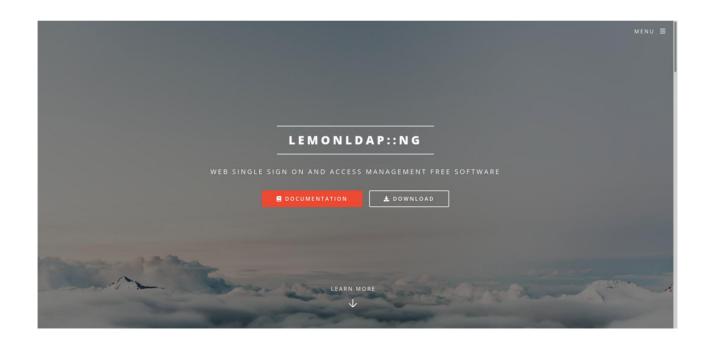
- The 2FA system was created in 2.0. New 2FA backends are now available:
 - Radius
 - WebAuthn (FIDO2)
- The second factor can now be asked only on session upgrade, when authentication level is to low to access an application
- Adaptative Authentication and Risk Based Authentication can be used to require a second factor
- TOTP secrets can now be encrypted



Documentation and Website



- Documentation was rewritten with Sphinx (reStructuredText)
- Website rebuilt as static pages with Templer





Keep informed about LL::NG



- Register to lemonIdap-ng-announces mailing list https://mail.ow2.org/wws/subscribe/lemonIdap-ng-announces
- Follow project updates https://projects.ow2.org/bin/view/lemonldap-ng/
- Social networks:
 - Twitter: https://twitter.com/lemonIdapng/
 - Facebook: https://www.facebook.com/lemonIdapng/





Thank you

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