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Check-in technical roadmap and RCauth status and plans

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The EGI Check-in service is an Identity and Access Management solution that makes it easy to secure access to services and resources. Check-in is one of the enabling services for the EOSC-hub AAI following the architectural and policy recommendations defined in the AARC project. Through Check-in, users are able to authenticate with the credentials provided by the IdP of their Home Organisation (e.g. via eduGAIN), as well as using social identity providers, or other selected external identity providers. Check-in provides an intuitive interface for communities to manage their users and their respective groups, roles and access rights. For communities operating their own group management system, Check-in has a comprehensive list of connectors that allows to integrate their systems as externally managed Attribute Authorities. The adoption of standards and open technologies, including SAML 2.0, OpenID Connect, and OAuth 2.0, facilitates integration with web-based services. Options to support non-web services, which traditionally relied on X509 certificates, are based around the concept of online authorities with attached credential stores, such as RCauth.eu with a tightly-coupled MyProxy server. Such techniques allow science gateways to obtain credentials on behalf of the end-user that can be used to directly authenticate to services. Another user-centric approach considers certificate proxies as opaque tokens that can be obtained from a credential store from the command-line using SSH authentication. The deployed RCauth.eu and MasterPortal service from AARC features both these capabilities and has been shown to work for the production EGI and WLCG environments. The currently-operational RCauth.eu is being re-engineered to allow for state consistency between a geographically distributed set of hosting sites. The presentation will provide an overview of the EGI Check-in technical roadmap and the evolution of the RCauth service towards a distributed deployment architecture.

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