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Implementing FIDO at UNICAMP: Toward Passwordless, Phishing-Resistant SSO

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This work examines the feasibility of deploying FIDO2/WebAuthn at UNICAMP to improve both security and user experience in Single Sign-On (SSO). We describe the target architecture based on Red Hat SSO (Keycloak), outline registration and authentication flows, and assess practical constraints in the campus environment. In particular, we analyze authenticator options (USB security keys, smartphones, and platform authenticators) against local limitations such as the absence of Bluetooth on many university computers and the current Linux workstation landscape. We consider incremental strategies, including offering FIDO2 as an optional factor alongside existing methods, password fallback where necessary, and interoperability with established federation approaches already supported by Red Hat SSO. We conclude with compromise options and a path forward that prioritizes security, usability, and broad accessibility across UNICAMP's diverse user base.

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