Passkey authentication The result

FOSDEM'24

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Introduction

Zero Trust Architecture memorandum



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MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

Shalanda D. Yang

FROM:

Shalanda D. Young

Acting Director

SUBJECT: Moving the U.S. Government Toward Zero Trust Cybersecurity Principles

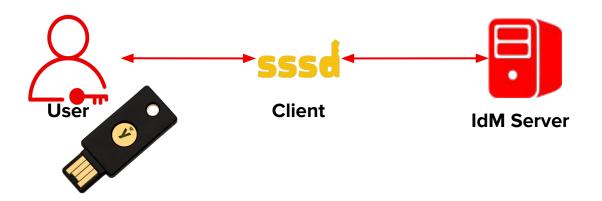
This memorandum sets forth a Federal zero trust architecture (ZTA) strategy, requiring agencies to meet specific cybersecurity standards and objectives by the end of Fiscal Year (FY) 2024 in order to reinforce the Government's defenses against increasingly sophisticated and persistent threat campaigns. Those campaigns target Federal technology infrastructure, threatening public safety and privacy, damaging the American economy, and weakening trust in Government.

Why FIDO2/WebAuthn?

- Passwordless
- Enables strong authentication
- Reduces the risk of a data breach
- Reduces phishing threads



Design



- FIDO2/WebAuthn
- SSSD
- LDAP server (i.e. IPA)
- Kerberos

More details

- FOSDEM Enabling FIDO2/WebAuthn support for remotely managed users
- DevConf FIDO2 authentication for centrally managed users

Demo

Conclusion

Availability

- sssd-2.9.4
- FreeIPA 4.11.0
- Fedora 39
- CentOS Stream 9

Reference links

- Design pages
 - SSSD design page for local passkey authentication
 - SSSD design page for Kerberos integration
 - FreeIPA design page for passkey authentication
- Testing
 - <u>Fedora magazine article</u> (<u>chinese version</u>)
 - <u>sssd-ci-containers</u> (make up-passkey)

Thank you!