@Web Conference 2 May 2024

OAuth SIG Community 11st Meeting

(56th from ex-FAPI-SIG)

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Community Event

Keyconf 24

Ongoing working items of security features

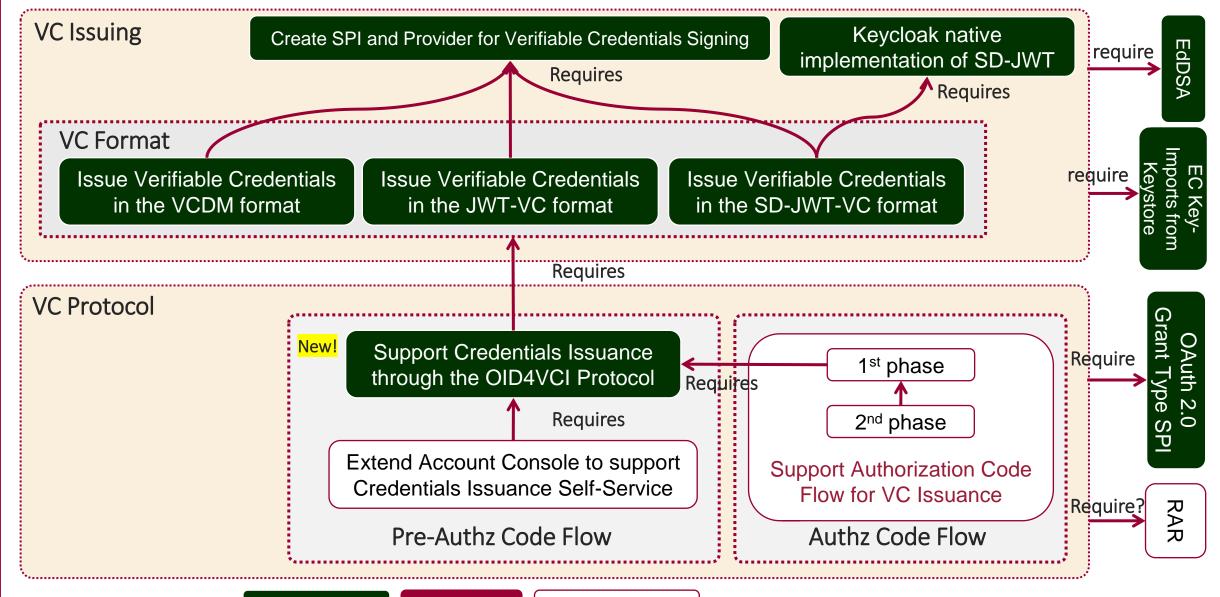
OpenID Connect for Verifiable Credentials (OID4VCs)

■ Immediate goal: Keycloak can work as an issuer of VCs.

In Progress

- Status: 7 out of all 9 issues were resolved. 1 PR was newly merged. Holding its breakout sessions weekly.
- Discussion: OpenID for Verifiable Credential Issuance
 - https://github.com/keycloak/keycloak/discussions/17616
- Design: OpenID Verifiable for Credential Issuance
 - https://github.com/keycloak/keycloak-community/blob/main/design/OID4VCI.md
- Epic issue : Support OpenID for Verifiable Credentials(OID4VC)
 - https://github.com/keycloak/keycloak/issues/25936

OpenID Connect for Verifiable Credentials (OID4VCs)



PROPOSED DRAFT

PR merged

PR sent

Not yet started

OpenID Connect for Verifiable Credentials (OID4VCs)

■Breakout sessions

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14th: 10 April (https://github.com/keycloak/kc-sig-fapi/tree/main/OAuth-SIG/Breakouts/OID4VCs/14th)
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15th: 17 April (https://github.com/keycloak/kc-sig-fapi/tree/main/OAuth-SIG/Breakouts/OID4VCs/15th)

16th: 24 April (https://github.com/keycloak/kc-sig-fapi/tree/main/OAuth-SIG/Breakouts/OID4VCs/16th)

■Follow-up

- RFC 9396 OAuth 2.0 Rich Authorization Requests (RAR)
- [Internet Draft] OAuth 2.0 Attestation-Based Client Authentication

Recall: Rich Authorization Request (RAR)

- Status : stopped?
- Discussion
 - https://github.com/keycloak/keycloak/discussions/8532
- Design
 - https://github.com/keycloak/keycloak-community/pull/325
- Epic Issue
 - https://github.com/keycloak/keycloak/issues/9225

Passkeys (Multi-Device FIDO Credentials)

In Progress

- Status: Goal: Officially supported (currently it is a preview feature)
- Status: In progress

Keycloak 23 start supporting passkeys as a preview feature.

- Discussion
 - https://github.com/keycloak/keycloak/discussions/16201
- Epic Issue
 - https://github.com/keycloak/keycloak/issues/23656

2 of 6 issues were resolved, 1 PR was submitted and its review seems to be completed Updated!

- Implementation
 - Passkeys: Supporting WebAuthn Conditional UI https://github.com/keycloak/keycloak/pull/24305

In Progress

A lot of people were requested to support passkeys officially in several conferences. (e.g., KubeCon EU 2024, OSW 2024, etc...)

Passkeys (Multi-Device FIDO Credentials)

- Resources
 - FIDO Alliance: https://fidoalliance.org/white-paper-multi-device-fido-credentials/
 - Apple : https://developer.apple.com/passkeys/
 - Google: https://developers.google.com/identity/passkeys
 - passkeys.dev : https://passkeys.dev/
 - passkeys.io : https://www.passkeys.io/

OAuth 2.0 Demonstrating Proof-of-Possession at the Application Layer (DPoP)

In Progress

- Goal: Officially supported (currently it is a preview feature)
- Status: In progress
- Follow-up Epic: https://github.com/keycloak/keycloak/issues/22311

Token Exchange

In Progress

- Goal: Officially supported (currently it is a preview feature)
- Status: In progress
- Discussion: When token-exchange will become productive feature from preview feature
 - https://github.com/keycloak/keycloak/discussions/23937
 - https://github.com/keycloak/keycloak/discussions/26502 (gathering use-cases) Updated!
- Breakout sessions: 17 Jan
 - The current Keycloak does not fully comply with its RFC.
 - One option is to newly implement Token Exchange feature as a SPI provider to fully comply with the RFC.
- Resources:
 - Specification: RFC 8693 OAuth 2.0 Token Exchange
 - https://datatracker.ietf.org/doc/html/rfc8693
 - Keycloak's implementation
 - https://www.keycloak.org/docs/latest/securing_apps/index.html#_token-exchange

OpenID Connect for Identity Assurance 1.0 (OIDC4IDA)

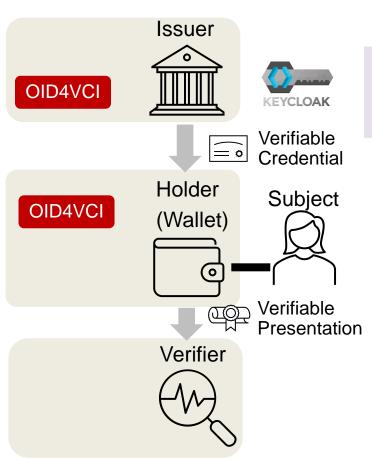
Nothing Progress

- Status: In progressWaiting for discussion and review.
- Specification
- OpenID Connect for Identity Assurance 1.0 Draft https://openid.net/specs/openid-connect-4-identity-assurance-1_0.html
- Discussion
- Support for OIDC extensions: OIDC4IDA https://github.com/keycloak/keycloak/discussions/21270
- Implementation

Proposal

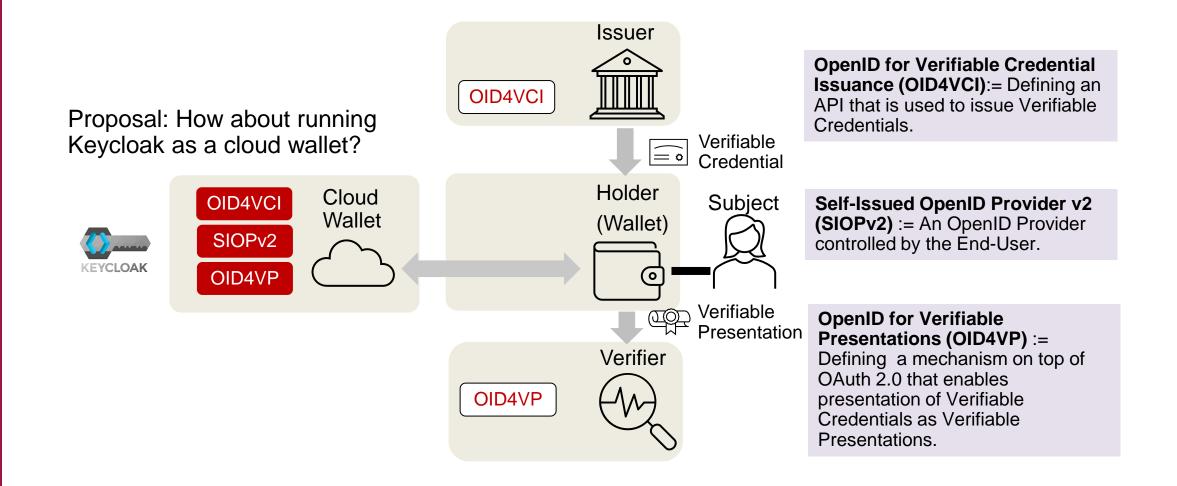
Keycloak as Cloud Wallet

Keycloak's community is working on supporting OID4VCI.



OpenID for Verifiable Credential Issuance (OID4VCI):= Defining an API that is used to issue Verifiable Credentials.

Keycloak as Cloud Wallet



Community Event

Keyconf 24

- Date and Time: 10 AM to 4 PM, September 19th Thursday
- Venue: ARCOTEL Kaiserwasser, Vienna/Austria
- Sponsor: Adorsys, Banfico, Hitachi (also welcome other sponsors)
- Program: TBD (how to gather proposals of a talk, who select them, etc...)
- Budget: TBD, but about 6,000 10,000 EUR in total

FYI: co-located event

Open Source Summit Europe 2024

- Web Site: https://events.linuxfoundation.org/open-source-summit-europe/
- Date: September 16th Monday 18th Wednesday
- Venue: Austria Center Vienna, Vienna/Austria

