



ERASMUS Federation Pilot

Using Kantara OTTO Federation API's to build a
next generation federation in the first responder
community.

Jan 4, 2018

This work is funded by the U.S Department of Homeland Security Science and Technology Directorate (DHS S&T). Any opinions contained herein are those of the performer and do not necessarily reflect those of DHS S&T.

Smart cards?

Not enough people
have them.

Hard to update.

Don't play nice with
mobile devices.



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Mobile: Real time information

Mobile



Identity

Yes

Skills

Yes

Yes

Authorization

Smart Cards



Yes

TOO
STATIC

NO

But where to get the mobile data?



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Who we are



Free open source Gluu Server provides OAuth and FIDO API implementations. Developed test OTTO Federation Server.



Identity ecosystem collaboration and standards organization: The Kantara *OTTO Working Group* is defining the *API's and data model for next-generation multi-party federation*

services.



Operates API's for encrypted file storage and sharing

End-to-end encryption framework and



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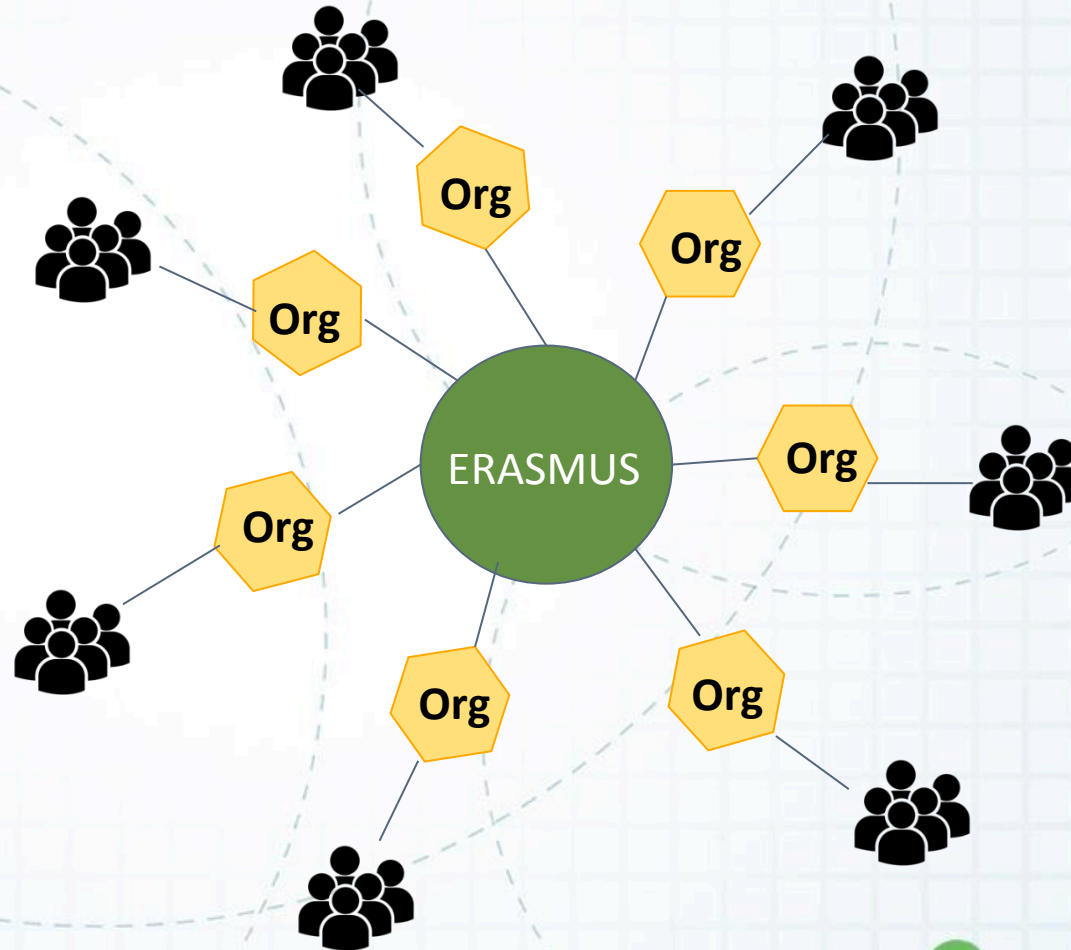
ERASMUS Federation Infrastructure



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- Home organizations are responsible for current **personnel** list and **password**
- The federation provides “**tools**” and “**rules**”
- **Trustmarks** convey federated identity risks





ERASMUS Business Model

- ERASMUS will be financially self-sustaining
 - Expenses: hosting for services, admin overhead
 - Revenues: **rebates** from approved vendors for:
 - Digital Badges
 - OpenID Provider Hosting
- No fee for organization membership
- No fee to end user (mobile application is free--no ads!)



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Digital Badge Service

The federation governs the badge infrastructure.

Operation outsourced to third parties.

Federation and SaaS hold no PII.



Organizations

Issue and pay for encrypted storage of badges (backed by FedRamp Amazon S3 service).



Individuals

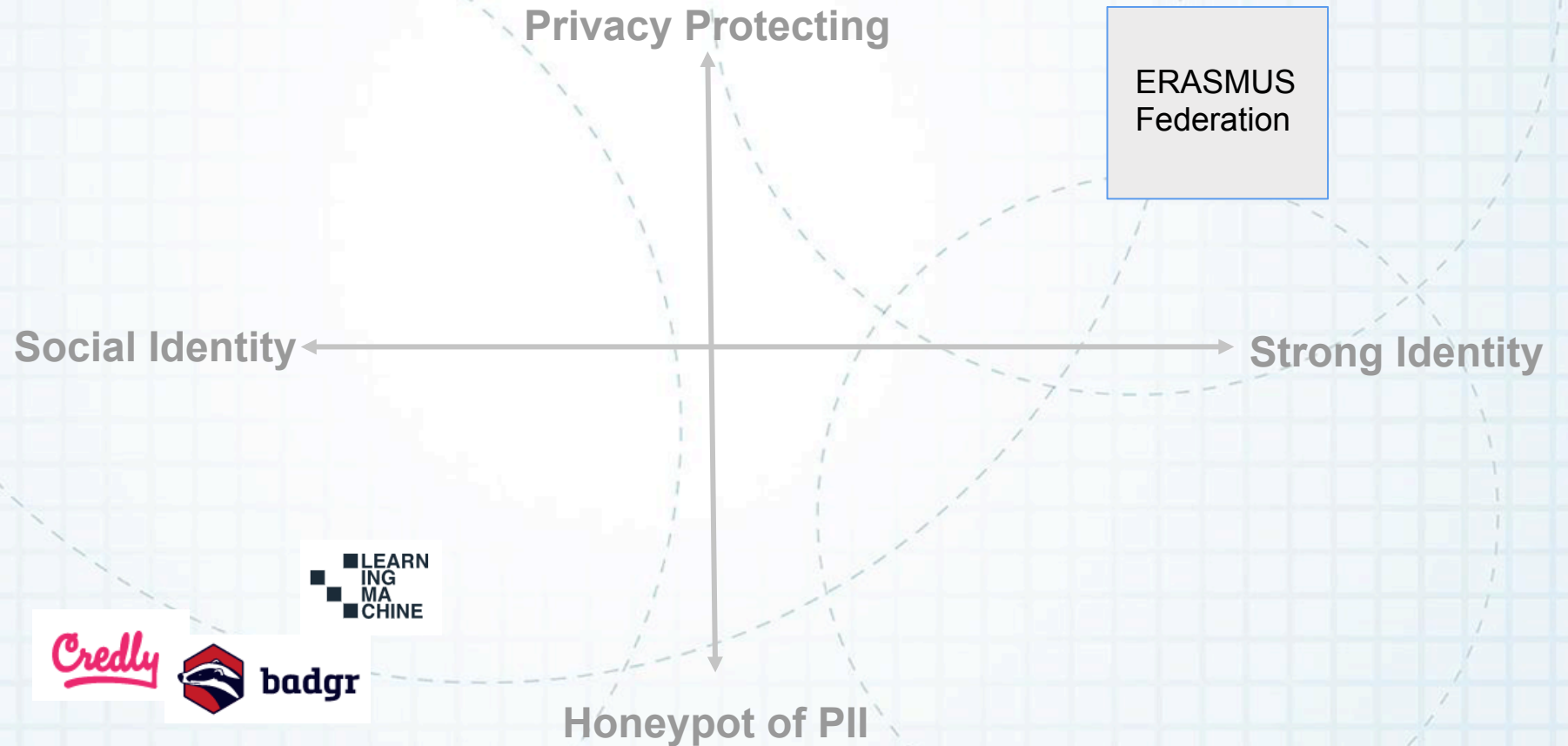
Use QR coded URL's to reference hosted badges. Data is exchanged peer-to-peer via Tozny E3DB service.



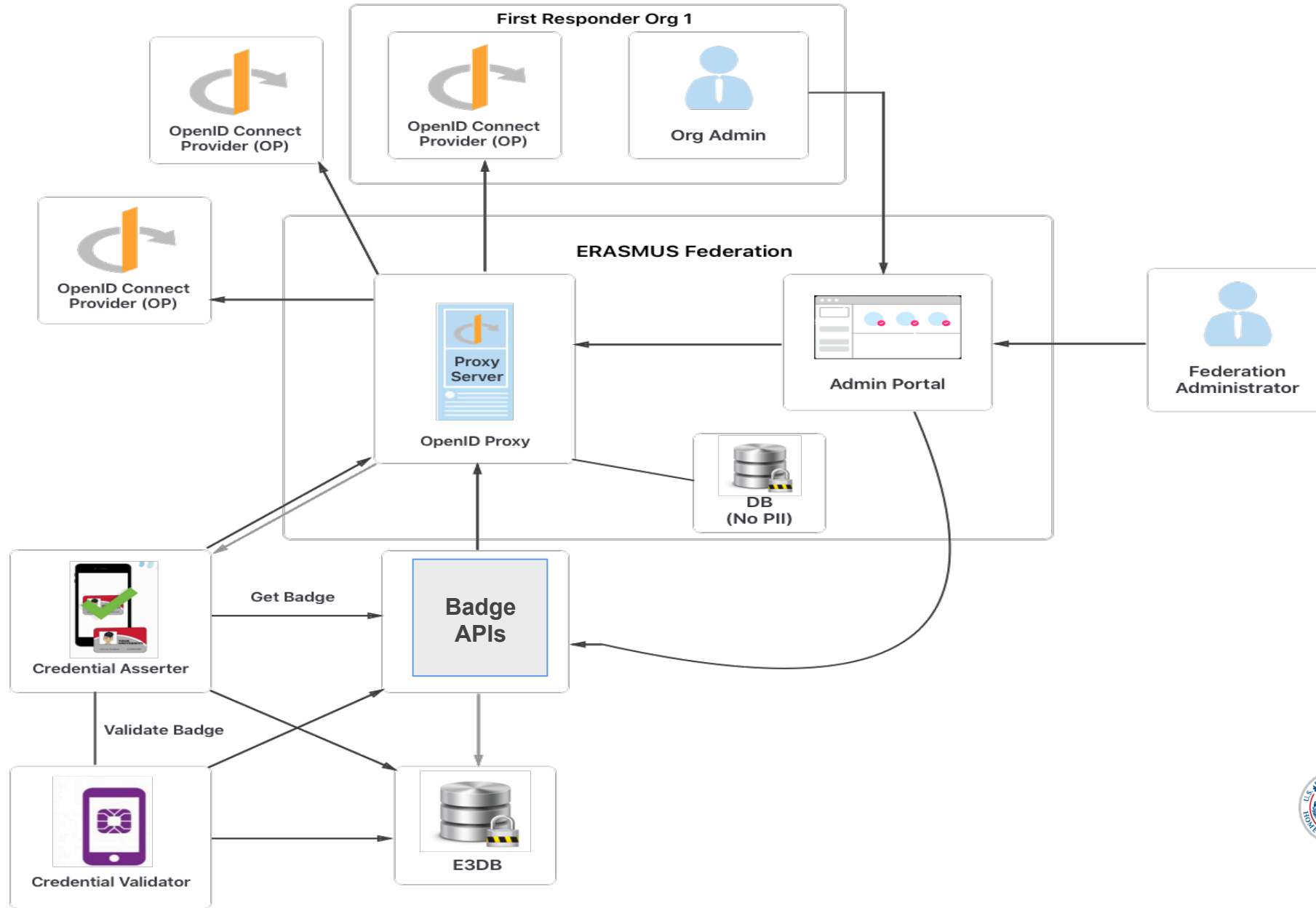
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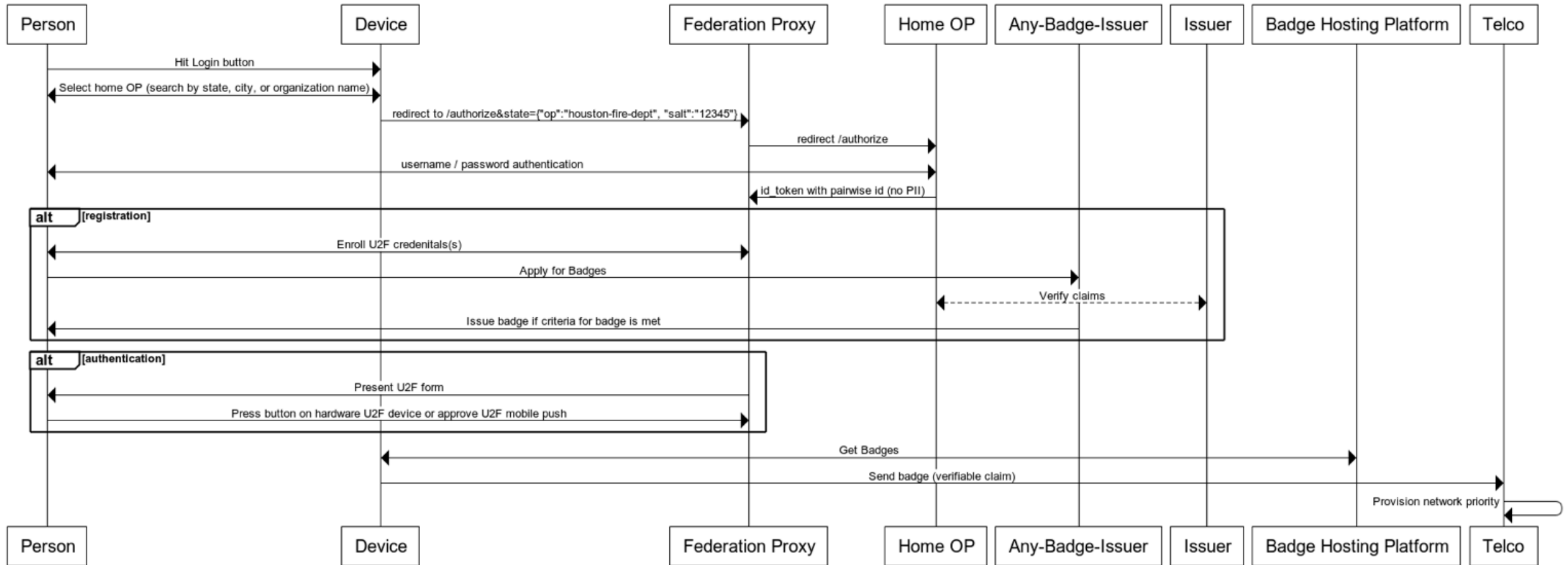
Why Federation Badges?



Phase I Topology Overview



Authentication / Enrollment sequence diagram for provisioning dynamic network priority using badges



Thank you!

Need more info?

Mike Schwartz, CEO Gluu

- <http://gluu.org/booking>
- mike@gluu.org
- <http://linkedin.com/in/nynymike>
- [@gluufederation](#)



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