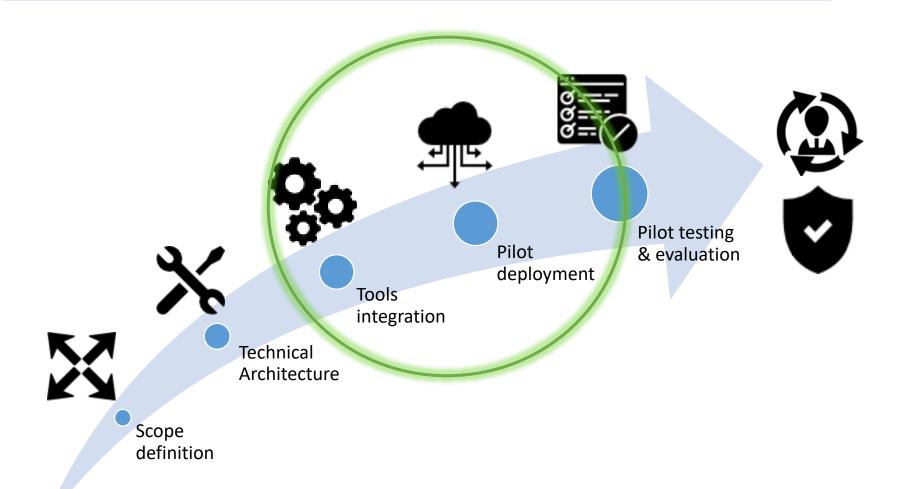


Pilot 2 - TECHNICAL REPORT ON PILOT INTEGRATION FOR PROVIDER SELECTION AND CONTINUOUS CERTIFICATION

# PILOT IMPLEMENTATION AND TESTING

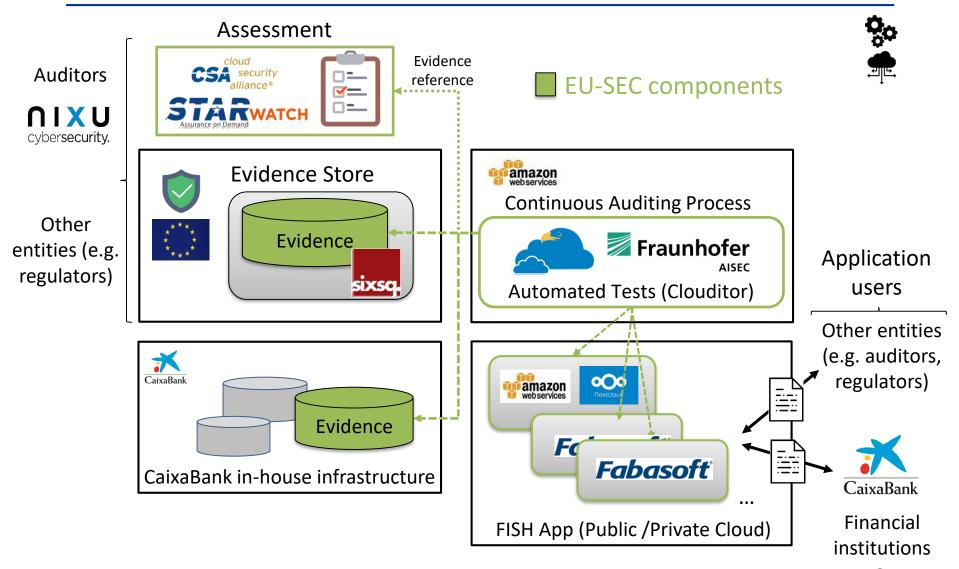
# Pilot phases







### Pilot - Technical Reference Architecture





## Pilot - Continuous Audit-based Certification API (CAC API)

API ENDPOINT	DESCRIPTION
/scopes/	Cloud services are realised by different technologies often arranged in architectural layers and scopes. This call return all scopes used by the service.
/{scope}/objects/	Returns Object ids of all objects that are in the scope of the audit.
/{scope}/persistence/{objectId}/storage/	Returns persistence information for a particular data object by its Id.
/{scope}/persistence/{objectId}/location/	Returns location the ISO 3166-1 alpha-2 country code of the location of the data of the object.
/{scope}/persistence/{objectId}/encryption	Retrieves the encryption info of an object.
/{scope}/identityfederation/admins/	Returns a list of administrators.
/{scope}/identityfederation/{userId}/groups	Returns the groups of a user.
/{scope}/identityfederation/{userId}/auth	Returns the authentication type of a user. E.g password, two-factor.
/{scope}/identityfederation/{userId}/logins	Returns a list of the last logins of a user.
/{scope}/identityfederation/data/access	Checks whether a user has a certain access to an object.
/{scope}/identityfederation/{userId}/ passwordRequirements	Returns the password requirements for a specific user.
/{scope}/meta/submitted	Gives information on when certain documents have been pushed to dedicated endpoints of the customer.









#### **DATA LOCATION**

- Persistent data storage
- Location of VM data

#### **ENCRYPTION**

- Data at rest
- Data in transit

- Key Management
- Security Cyphers

#### **IDENTITY FEDERATION**

- Application level
- Platform level

#### **EVIDENCE SECURITY**

- Critical logs storage
  - orage Critical logs location
- Critical logs accessibility

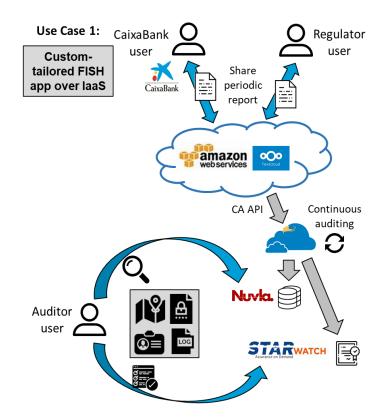


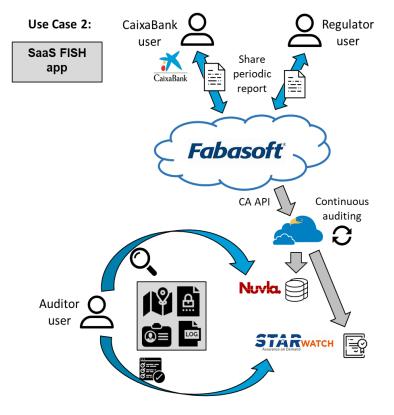


 Custom-tailored FISH (Financial Information Sharing) application over laaS: Proof-of-concept built over a AWS (Amazon Web Services). The application was designed to be simple while still offering the main functionalities needed in the sensitive information exchange between the user and the regulator.



• SaaS FISH application: test the certification of a FISH application in SaaS with more advanced actions between users (e.g. multiparty interactions and document management).





### Pilot – Use Cases definition





Use case definition: actors, scenario, steps.				
	EU-SEC.FISH.IAAS.v1			
	Financial Information reporting to regulator - FISH app approach over IAAS.	Version No:	1.1	

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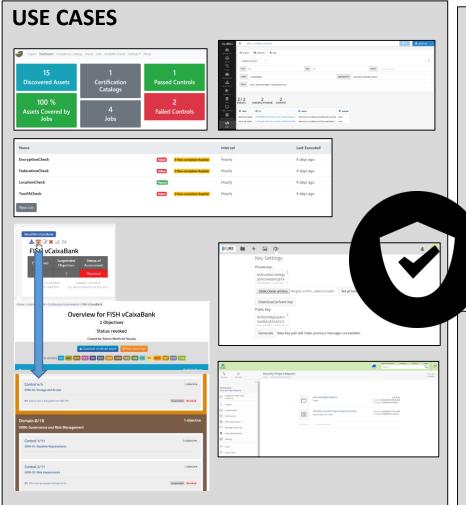
EU-SEC.FISH.SAAS.v1		
Financial Information reporting to multiple users of the regulator entity - FISH	Version No:	1.1
app approach over SAAS.		

- Financial Institution (FI): An employee of a financial institution dedicated to the financial sector.
- **Regulator User (R):** An employee of the entity that regulates the financial sector.
- Additional Regulator User (R2): Another employee of a regulator entity.
- Cloud Service Provider (CSP): Cloud provider and FISH application provider.
- **Auditor (AU):** Auditor or an external entity employee that is in charge of validating the performance and trustworthiness of the FISH application in the cloud.

### Pilot – Testing







#### **ARCHITECTURE**

# Architecture security recommendations

Information security management and architechture

Technical security requirements

#### **HIGH-LEVEL**

#### **NON-FUNCTIONAL ASPECTS**

**Cloud customer perspective** 

First impressions from the pilot