





Deltares

Delft-FEWSBreak-out Security & Cloud

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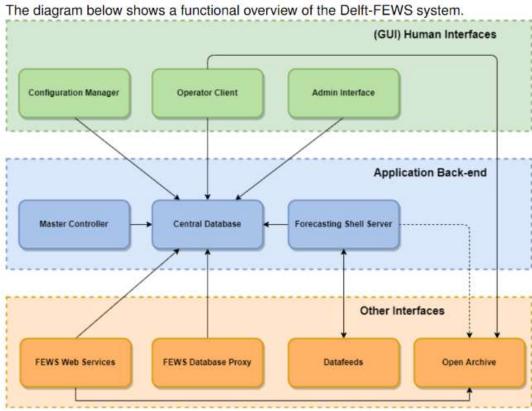
9 november 2022

Outline break-out

Security

- Intro
- Current status
- Desired & planned developments
- Recent developments & demo (Cloud & Security)
- Q&A /possible demo

General set-up and components Delft-FEWS



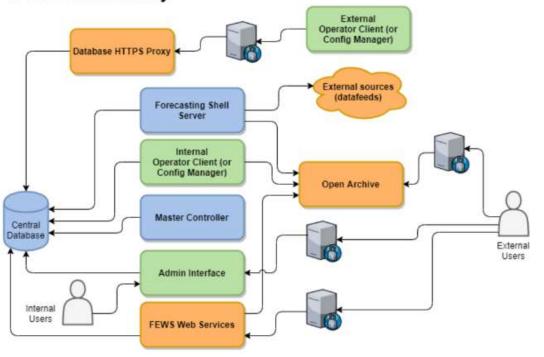
Note that in this diagram the FEWS Database Proxy, FEWS Web Services and the Open Archive are optional components.

Credits: André Speelmans

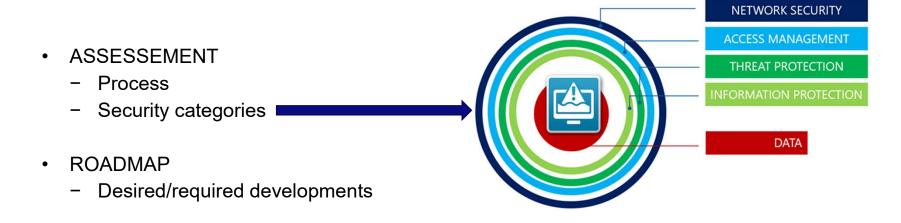
General set-up and components Delft-FEWS

The diagram below shows the different connections between the components.

FEWS Connectivity



The approach



Security Roadmap



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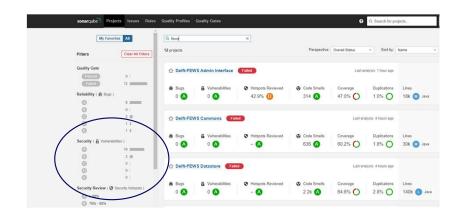
Delft-FEWS security guide

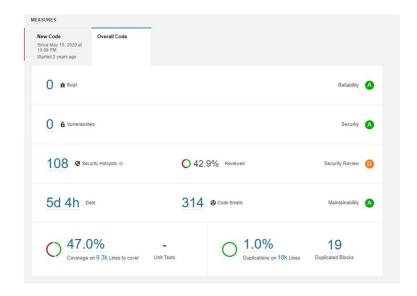
Edition Q2

Security Control

Keep Delft-FEWS safe tooling & processes

- SonarQube
- OWASP dependency checker
 - ZAP





Security Roadmap

Still work to do; security never stops

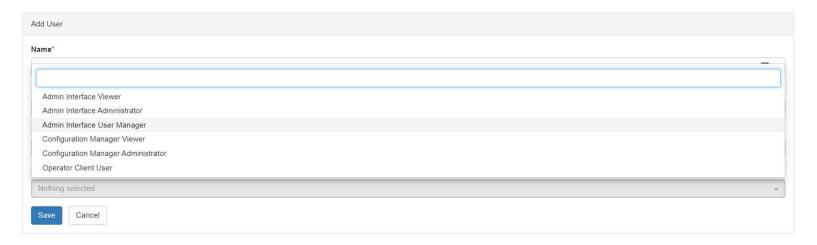
Main topics:

- 1. Gain insight on performance of the strict security measures
- 2. Audit trails
- 3. Improve insight vulnerabilities 3rd party libraries

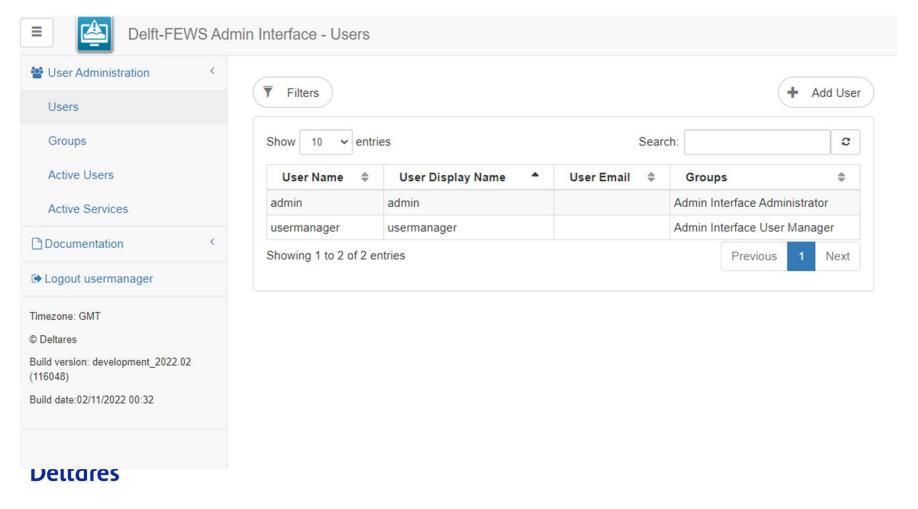
Some recent developments & demo & QA Rudie

Admin Interface User Manager Role

- Admin Interface has a new group: AI_USER_MANAGER.
- Allow only user management actions in the Admin Interface



Admin Interface User Manager Role



Open ID Support OC/CM and Database Proxy

Operator Client and Configuration Manager can login with Open Id when using the database proxy. No more database credentials required on the OC VM.

- New application role: OC_USER required
- Admin Interface can map Open Id users to application roles or application roles can be mapped using OAuth2 claims (Azure AD).



Delft-FEWS Web Services OpenID support

- Delft-FEWS Web Services can be protected using Open ID. Token claims can be mapped to Groups in the Delft-FEWS configuration. No more users in the UserGroups.xml. The Open ID app roles will be mapped to SystemGroups. See:
 - https://publicwiki.deltares.nl/display/FEWSDOC/FEWS+Web+Services+Security+with+Open+ID+Connect
- Will be possible to use with the Web OC.
 - https://github.com/Deltares/fews-web-oc
- Demo Web OC with openid login:
 - https://delftfewsweboc.deltares.nl

Cloud info

https://publicwiki.deltares.nl/display/FEWSDOC/Delft-FEWS+and+the+cloud

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