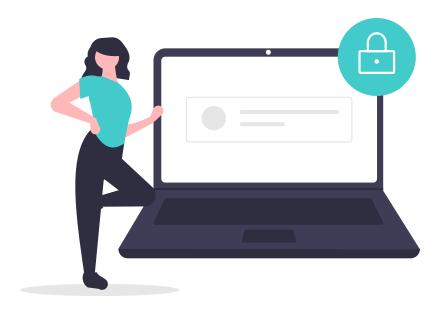


DHIS2 Security Features

Michael Markevich, DHIS2 Security Lead





DHIS2 Security Features



Access Control

- Core functionality
- Users can belong to groups and can have role assignments
- Roles contain fine-grained authorities
- Users can have restrictions based on the analytics dimension



LDAP Authentication

- Core functionality
- Active Directory, Azure AD, OpenLDAP, or compatible service supported



Multi-Factor Authentication

- Available in DHIS2 2.30+
- Based on Google Authenticator or any other compatible application for smartphones or feature phones



Single Sign-On

- Available in DHIS2 2.35+
- We support OpenId Connect (OIDC), which is compatible with popular identity management systems like Okta, Keycloak, etc.



Personal Access Tokens

- Available in DHIS2 2.37+
- Personal access tokens are an alternative to using passwordbased authentication for automation using API calls



User Impersonation

- Available in DHIS2 2.40+
- Using a special privilege, DHIS2 administrators can impersonate other users and execute commands on their behalf (similar to sudo in Linux).



Auditing and Logging

- Core functionality
- User activity log
- System event log



Backup

- Data backup applies to the DHIS2 database (PostgreSQL)
- It can be configured with external tools outside of the DHIS2 instance



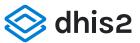
Virtual Patching

If you run a DHIS2 instance behind Nginx in a reverse proxy mode, we can provide configuration snippets to mitigate known security vulnerabilities or protect against selected attacks.





Security Team Updates



Reference Setup

We have created a reference setup of DHIS2, which can be used for public penetration testing of our recommended security configuration.



Security Hall of Fame

We have created the Security Hall of Fame page, acknowledging contributions from independent security researchers.

We also plan to promote our security program publicly and attract more experts to evaluate the security of DHIS2.



Thank You

