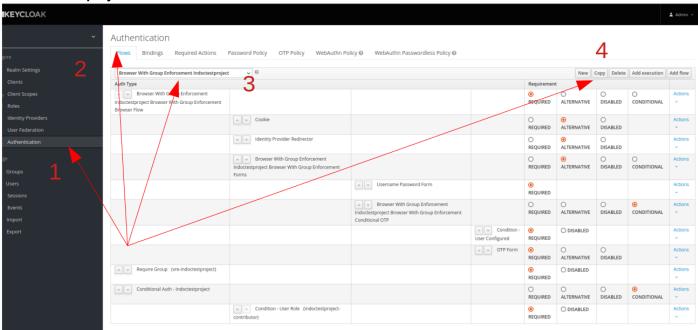This document shows the steps to **add a workflow for workbench tools**, such as Guacamole, Superset, Jupyterhub, Xwiki, etc.. This implementation will prevent unexpected users from accessing the particular resources.

note
Note: The authentication workflow is created **based on project**. Each project has one authentication workflow for all its workbench tools.
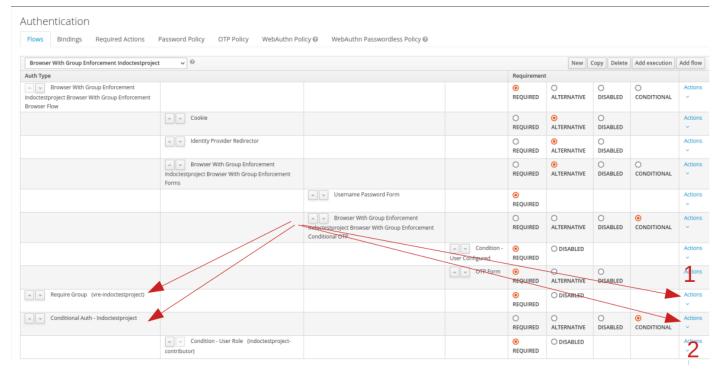
Note: The authentication workflow is created **based on project**. Each project has one authentication workflow for all its workbench tools.

1. Login to the **Keycloak portal** and go to "**Authentication**" section in the left navigation lane.
2. Go to the "**Flows**" tab in the right panel and click drop-down menu and select "**Browser With Group Enforcement Indoctestproject**"
3. Click "**Copy**" to duplicate an authentication workflow from an existing template and names it as "Browser With Group Enforcement **<projectID>**"
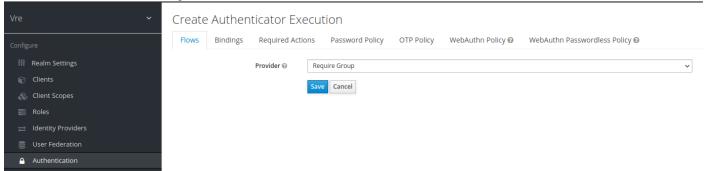

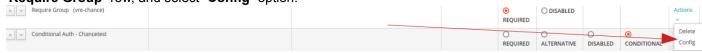4. **Remove** "Require Group (vre-indoctestproject)" and "Conditional Auth - Indoctestproject"

5. Click "**Add execution**", and in the "**Flows**" tab, clicking the **Provider** drop-down menu and selecting "**Require Group**". Click "**Save**" to save the change.

6. **Go back** to the new authentication workflow "Browser With Group Enforcement <projectID>" and click "**Actions**" in the "**Require Group**" row, and select "**Config**" option.

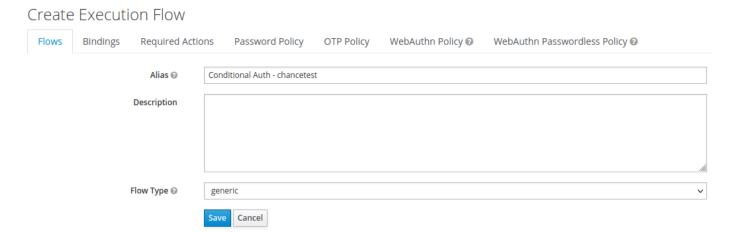7. Type "**vre-<projectID>**" to both "**Alias**" and "**Group**" field. This will ensure only the users in this particular group can access the resource of the client which is associated with this Authentication workflow.
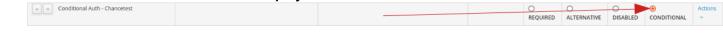

8. **Go back** to the new authentication workflow "Browser With Group Enforcement <projectID>" and click "**REQUIRED**" in "**Require Group(vre-<projectID>)**" row to **enable** it.

9. Click "**Add flow**" and type "**Conditional Auth - <projectID>**" in "**Alias**" field. Select "**generic**" in "**Flow Type**" and click "**Save**" to save the change.

Create Execution Flow

| Flows | Bindings | Required Actions | Password Policy | OTP Policy | WebAuthn Policy ❓ | WebAuthn Passwordless Policy ❓ |

Alias ❓   Conditional Auth - chancetest

Description

Flow Type ❓   generic

Save   Cancel

10. **Go back** to the new authentication workflow "Browser With Group Enforcement <projectID>" and click "**CONDITIONAL**" in "**Conditional Auth - <projectID>**" row to **enable** it.

| Conditional Auth - Chancetest | | | REQUIRED | ALTERNATIVE | DISABLED | CONDITIONAL | Actions |

11. **Go back** to the new authentication workflow "Browser With Group Enforcement <projectID>" and click "**Action**" in "**Conditional Auth - <projectID>**" row, and select "**Add execution**".

12. Go to the "**Flows**" tab, click the **Provider** drop-down menu and selecting "**Condition - User Role**". Click "**Save**" to save the change.

Create Authenticator Execution

| Flows | Bindings | Required Actions | Password Policy | OTP Policy | WebAuthn Policy ❓ | WebAuthn Passwordless Policy ❓ |

Provider ❓   Condition - User Role

Save   Cancel

13. **Go back** to the new authentication workflow "Browser With Group Enforcement <projectID>" and click "**Action**" in "**Condition - User Role**" row, and select "**Config**".

| Condition - User Role | | REQUIRED | DISABLED | | Actions |

14. Type "**<projectID>-contributor**" in both "**Alias**" and "**User role**". Please make sure these roles exist in "Roles" section, otherwise, you have to create them manually (including 3 roles → **<projectID>-admin/<projectID>-collaborator/<projectID>-contributor**)

Authentication Flows > Browser With Group Enforcement Chancetest > Create authenticator config

Create authenticator config

Alias ❓   chancetest-contributor

User role ❓   chancetest-contributor

Save   Cancel

15. **Go back** to the new authentication workflow "Browser With Group Enforcement <projectID>" and click "**REQUIRED**" in "**Condition - User Role(<projectID>-contributor)**" row to **enable** it.

| Condition - User Role (chancetest-contributor) | | REQUIRED | DISABLED | | Actions |