

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.

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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>”

Auth Type	Requirement	REQUIRED	ALTERNATIVE	DISABLED	CONDITIONAL	Actions
Browser With Group Enforcement Indoctestproject Browser With Group Enforcement Indoctestproject Browser Flow	<input checked="" type="radio"/> REQUIRED	<input type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input type="radio"/> CONDITIONAL	Actions	
Cookie	<input type="radio"/> REQUIRED	<input checked="" type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input type="radio"/> CONDITIONAL	Actions	
Identity Provider Redirector	<input type="radio"/> REQUIRED	<input checked="" type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input type="radio"/> CONDITIONAL	Actions	
Browser With Group Enforcement Indoctestproject Browser With Group Enforcement Forms	<input type="radio"/> REQUIRED	<input checked="" type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input type="radio"/> CONDITIONAL	Actions	
Username Password Form	<input checked="" type="radio"/> REQUIRED	<input type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input type="radio"/> CONDITIONAL	Actions	
Browser With Group Enforcement Indoctestproject Browser With Group Enforcement Conditional OTP	<input type="radio"/> REQUIRED	<input type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input checked="" type="radio"/> CONDITIONAL	Actions	
Condition - User Configured	<input checked="" type="radio"/> REQUIRED	<input type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input type="radio"/> CONDITIONAL	Actions	
OTP Form	<input checked="" type="radio"/> REQUIRED	<input type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input type="radio"/> CONDITIONAL	Actions	
Require Group (vre-indoctestproject)	<input checked="" type="radio"/> REQUIRED	<input type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input type="radio"/> CONDITIONAL	Actions	
Conditional Auth - Indoctestproject	<input type="radio"/> REQUIRED	<input type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input checked="" type="radio"/> CONDITIONAL	Actions	
Condition - User Role (indoctestproject-contributor)	<input checked="" type="radio"/> REQUIRED	<input type="radio"/> ALTERNATIVE	<input type="radio"/> DISABLED	<input type="radio"/> CONDITIONAL	Actions	

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

Authentication

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

Browser With Group Enforcement Indoctestproject

New Copy Delete Add execution Add flow

Auth Type	Requirement	Actions
Browser With Group Enforcement Indoctestproject Browser With Group Enforcement Browser Flow	<input checked="" type="radio"/> REQUIRED <input type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED <input type="radio"/> CONDITIONAL	Actions
Cookie	<input type="radio"/> REQUIRED <input checked="" type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED	Actions
Identity Provider Redirector	<input type="radio"/> REQUIRED <input checked="" type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED	Actions
Browser With Group Enforcement Indoctestproject Browser With Group Enforcement Forms	<input type="radio"/> REQUIRED <input checked="" type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED <input type="radio"/> CONDITIONAL	Actions
Username Password Form	<input checked="" type="radio"/> REQUIRED	Actions
Browser With Group Enforcement Indoctestproject Browser With Group Enforcement Conditional OTP	<input type="radio"/> REQUIRED <input type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED <input checked="" type="radio"/> CONDITIONAL	Actions
Condition - User Configured	<input checked="" type="radio"/> REQUIRED <input type="radio"/> DISABLED	Actions
OTP Form	<input checked="" type="radio"/> REQUIRED <input type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED	Actions
Require Group (vre-indoctestproject)	<input checked="" type="radio"/> REQUIRED <input type="radio"/> DISABLED	Actions
Conditional Auth - Indoctestproject	<input type="radio"/> REQUIRED <input type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED <input checked="" type="radio"/> CONDITIONAL	Actions
Condition - User Role (indoctestproject-contributor)	<input checked="" type="radio"/> REQUIRED <input type="radio"/> DISABLED	Actions

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.

Vre

Configure

- Realm Settings
- Clients
- Client Scopes
- Roles
- Identity Providers
- User Federation
- Authentication

Create Authenticator Execution

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

Provider

Save Cancel

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.

Require Group (vre-chance)	<input checked="" type="radio"/> REQUIRED <input type="radio"/> DISABLED	Actions
Conditional Auth - Chancetest	<input type="radio"/> REQUIRED <input type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED <input checked="" type="radio"/> CONDITIONAL	Delete Config

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.

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

Create authenticator config

Alias

Group

Save Cancel

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.

Require Group (vre-chancetest)	<input checked="" type="radio"/> REQUIRED <input type="radio"/> DISABLED	Actions
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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

BindingsRequired ActionsPassword PolicyOTPPolicyWebAuthn PolicyWebAuthn 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  
v

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**”.

The diagram illustrates a process flow. It starts with a box labeled 'Condition - User Role'. An arrow points from this box to a box labeled 'REQUIRED'. From 'REQUIRED', a red arrow points to a box labeled 'DISABLED'. Finally, a red arrow points from 'DISABLED' to a box labeled '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 (chancestest-contributor)	REQUIRED	<input type="radio"/> DISABLED	Actions
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