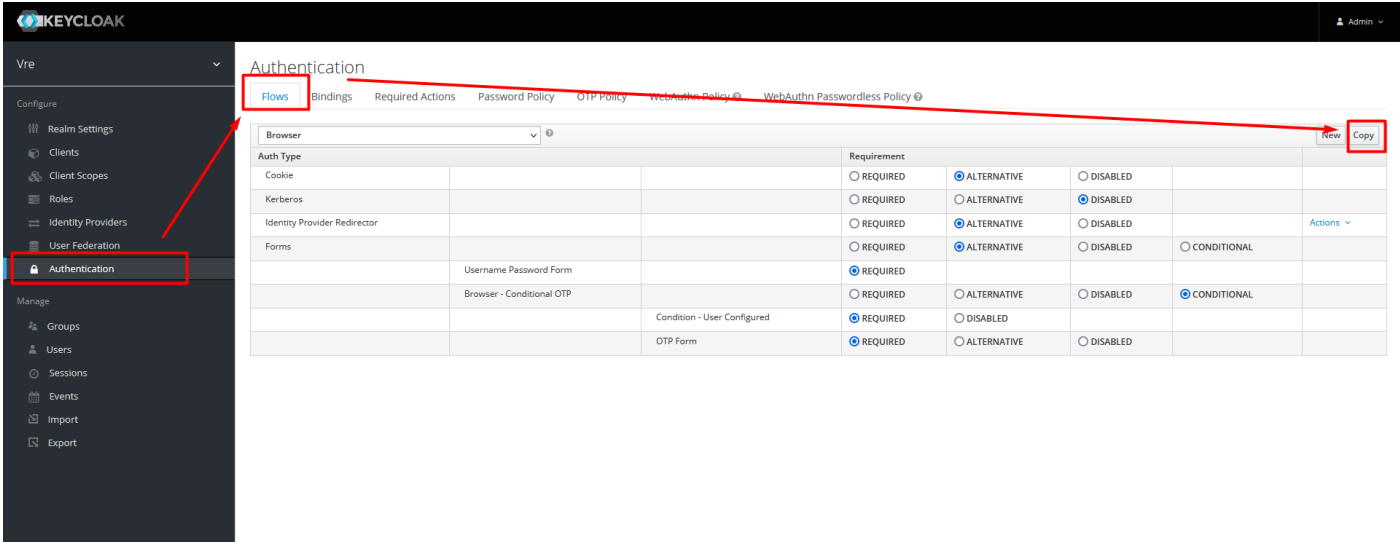


Overview:

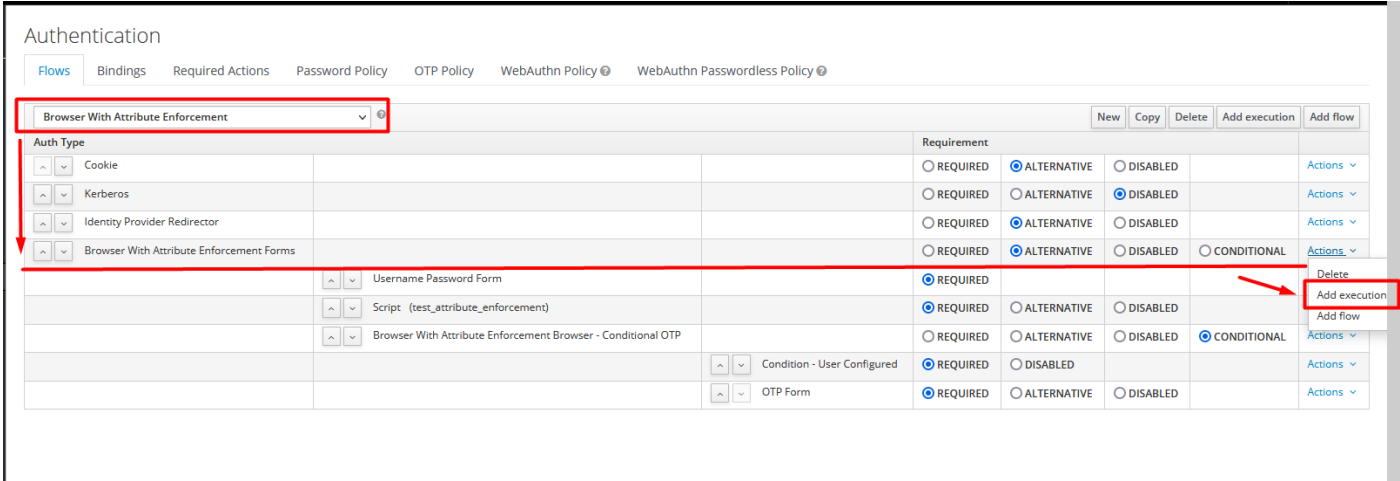
This page is to document how to add the script into the workflow to do the customized authentication

Step:

1. The authentication flow will based on browser setup. So create a copy of the browser authentication flow and named as the Browser with Attribute Enforcement



2. In the forth row Browser With Attribute Enforcement Forms, select Action -> Add execution to add new authentication check.



3. For the new execution, select script for customized logic

Create Authenticator Execution

Flows

Bindings

Required Actions

Password Policy

OTP Policy

WebAuthn Policy

WebAuthn Passwordless Policy

Provider

Script

OTP Form

Password

Password Form

Require Group

Reset OTP

Reset Password

Review Profile

Script

Send Reset Email

Username Form

Username Password Challenge

Username Password Form

Username Password Form For Identity Provider Reauthentication

Username Validation

Verify Existing Account By Email

WebAuthn Authenticator

WebAuthn Passwordless Authenticator

X509/Validate Username

X509/Validate Username Form

then move the script execution after validating the password

Authentication

Flows

Bindings

Required Actions

Password Policy

OTP Policy

WebAuthn Policy

WebAuthn Passwordless Policy

CIBA Policy

Browser With Attribute Enforcement				New	Copy	Delete	Edit Flow	Add execution	Add flow
Auth Type			Requirement						
Cookie			<input type="radio"/> REQUIRED <input checked="" type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED						Actions
Kerberos			<input type="radio"/> REQUIRED <input type="radio"/> ALTERNATIVE <input checked="" type="radio"/> DISABLED						Actions
Identity Provider Redirector			<input type="radio"/> REQUIRED <input checked="" type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED						Actions
Browser With Attribute 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						Actions
		Script (test_attribute_enforcement)	<input checked="" type="radio"/> REQUIRED <input type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED						Actions
		Browser With Attribute Enforcement Browser - 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

4. Following script is to check if user attribute has status=disable. If so, the user will be blocked to login. Note here with the script, the authentication can also check user group/roles.

```

/*
 * Template for JavaScript based authenticator's.
 * See
org.keycloak.authentication.authenticators.browser.ScriptBasedAuthenticatorFactory
 */

// import enum for error lookup
AuthenticationFlowError =
Java.type("org.keycloak.authentication.AuthenticationFlowError");

/**
 * An example authenticate function.
 *
 * The following variables are available for convenience:
 * user - current user {@see org.keycloak.models.UserModel}
 * realm - current realm {@see org.keycloak.models.RealmModel}
 * session - current KeycloakSession {@see org.keycloak.models.KeycloakSession}
 * httpRequest - current HttpRequest {@see org.jboss.resteasy.spi.HttpRequest}
 * script - current script {@see org.keycloak.models.ScriptModel}

```

```

* authenticationSession - current authentication session {@see
org.keycloak.sessions.AuthenticationSessionModel}
* LOG - current logger {@see org.jboss.logging.Logger}
*
* You one can extract current http request headers via:
* httpRequest.getHttpHeaders().getHeaderString("Forwarded")
*
* @param context {@see org.keycloak.authentication.AuthenticationFlowContext}
*/
function authenticate(context) {

    var username = user ? user.username : "anonymous";
    // LOG.info(script.name + " trace auth for: " + username);

    var authShouldFail = false;

    // fetch the user attribute to see if user has `status=disable`
    var attributes = user.getAttributes()
    user.set
    for (var att in attributes){

        // block login
        if(att=="status" && attributes[att][0]=="disabled"){
            context.failure(AuthenticationFlowError.USER_DISABLED);
            return;
        }

    }

    context.success();
}

```

5. And remember to check the REQUIRED option

Authentication

Flows					Bindings					Required Actions					Password Policy					OTP Policy					WebAuthn Policy					WebAuthn Passwordless Policy				
Browser With Attribute Enforcement																																		
Auth Type					Requirement																													
Cookie					<input type="radio"/> REQUIRED <input checked="" type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED																													
Kerberos					<input type="radio"/> REQUIRED <input type="radio"/> ALTERNATIVE <input checked="" type="radio"/> DISABLED																													
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Username Password Form					<input checked="" type="radio"/> REQUIRED																													
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OTP Form					<input checked="" type="radio"/> REQUIRED <input type="radio"/> ALTERNATIVE <input type="radio"/> DISABLED																													

6. Switching the tab to Binds, change the browser flow to what we create in step 1 Browser with Attribute Enforcement.

