



External idP login (SSO & openid) with Multiple API Managers

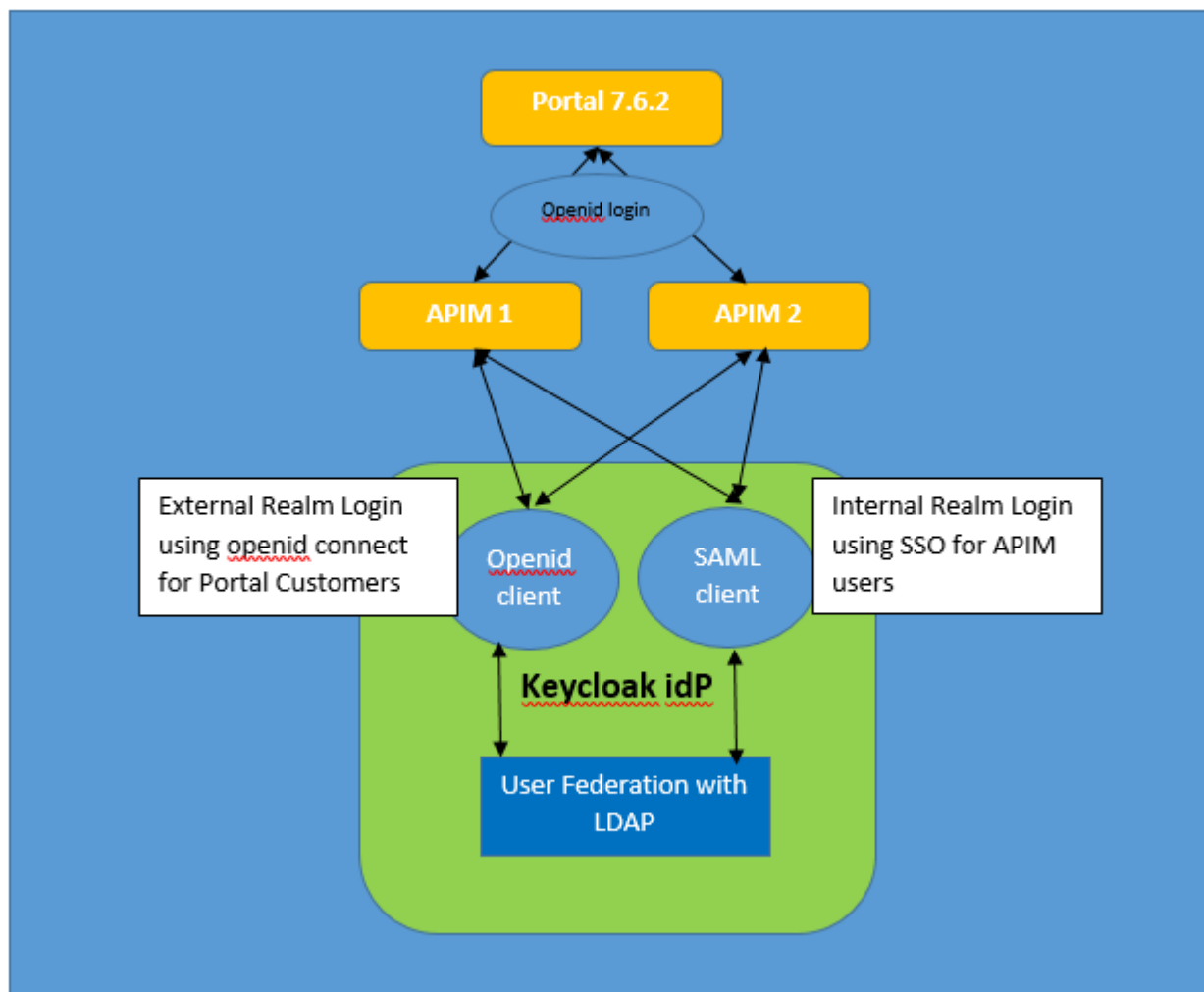
Blog Post created by **Love Kushal Vaish** on 06-Oct-2018

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Problem Statement: Recently we got a situation to connect API portal with multiple API managers and use idP for user authentication. Before this, the implementation consisted of Single API Manger, API Portal and user authentication with SSO idP for both APIM and Portal.

As we know that API Portal 7.6.2 SP1 does not support SSO with multiple API Managers, so we decided with below approach:



API Managers are configured to use External idP for login policies and SSO setup at the same time.

- APIM user can login with SSO internal realm on either API manager.
- APIM user can also login with openid connect external realm on either API manager if not blocked for external customers.

API Portal is configured to use Multiple API Managers without SSO.

- API Portal user can login with openid connect external realm.
- API Portal user cannot login using SSO internal realm.

User management for API Manager and API Portal is done completely on idP using internal and external realms and federating user information from 2 different LDAPs (one for internal users and one for external portal consumers).

Implementation:

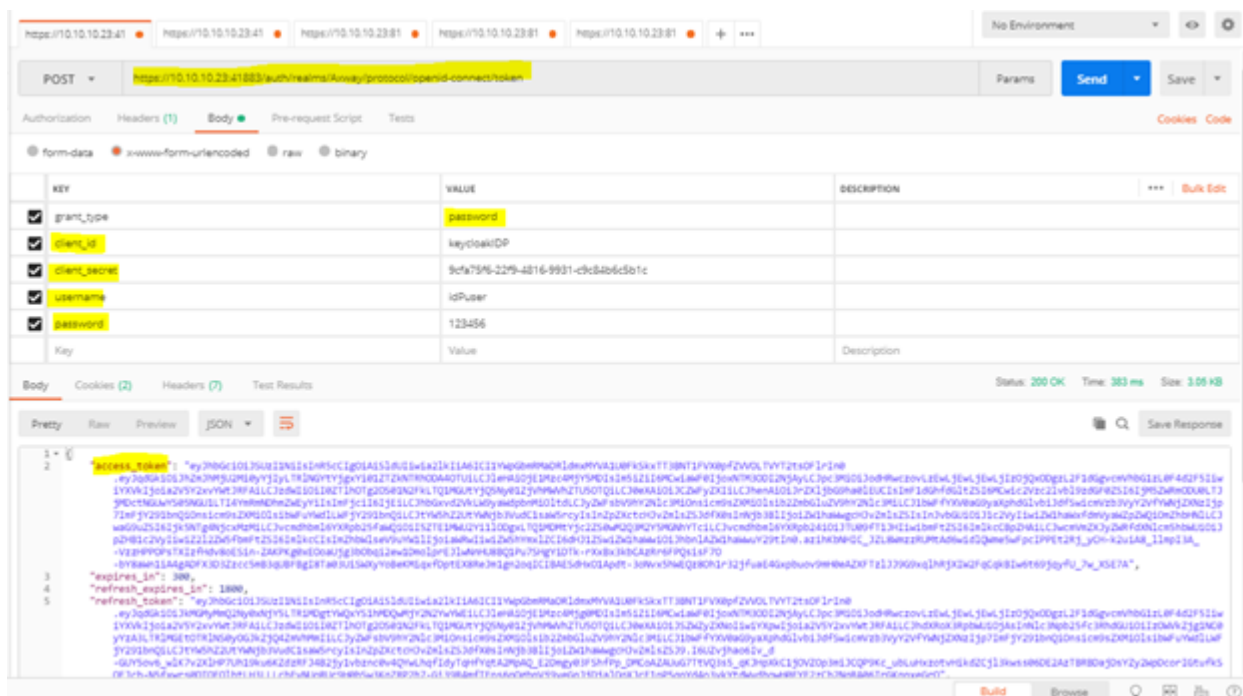
1. SSO implementation using keycloak as very well defined at:

<https://axway.jiveon.com/docs/DOC-109331>

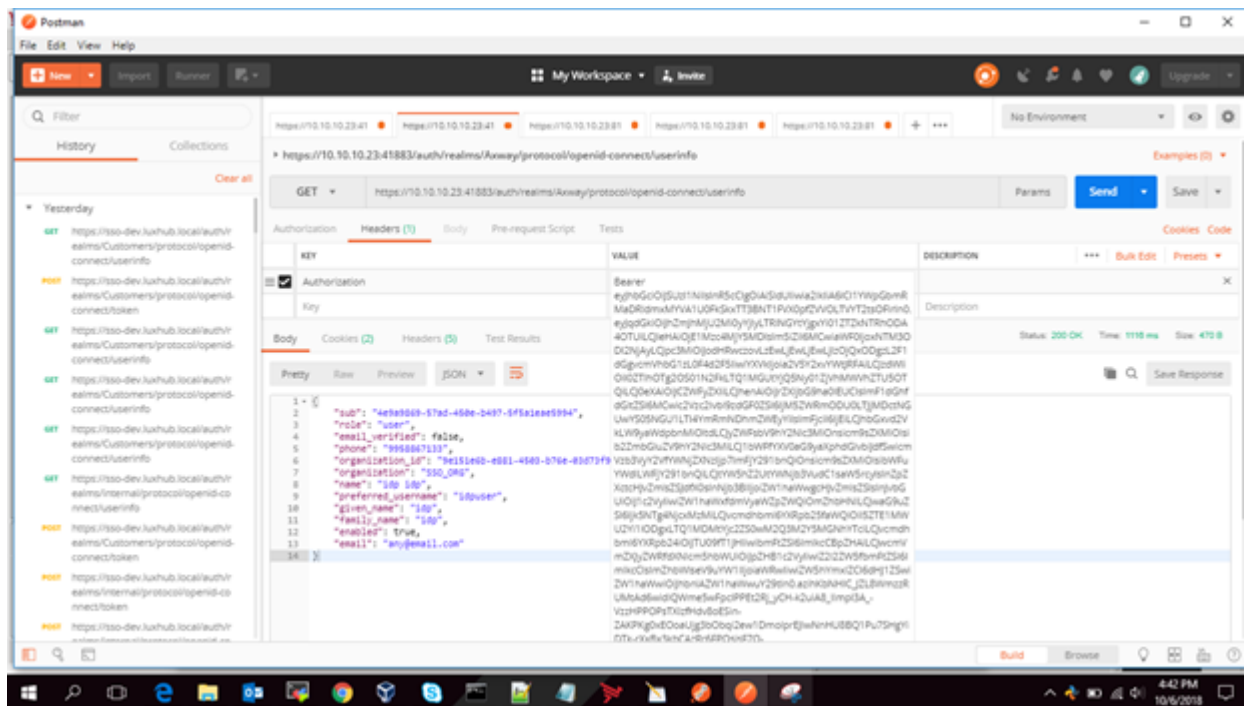
by Chandan Shantakumar

- ## 2. External idP Openid connect user authN :

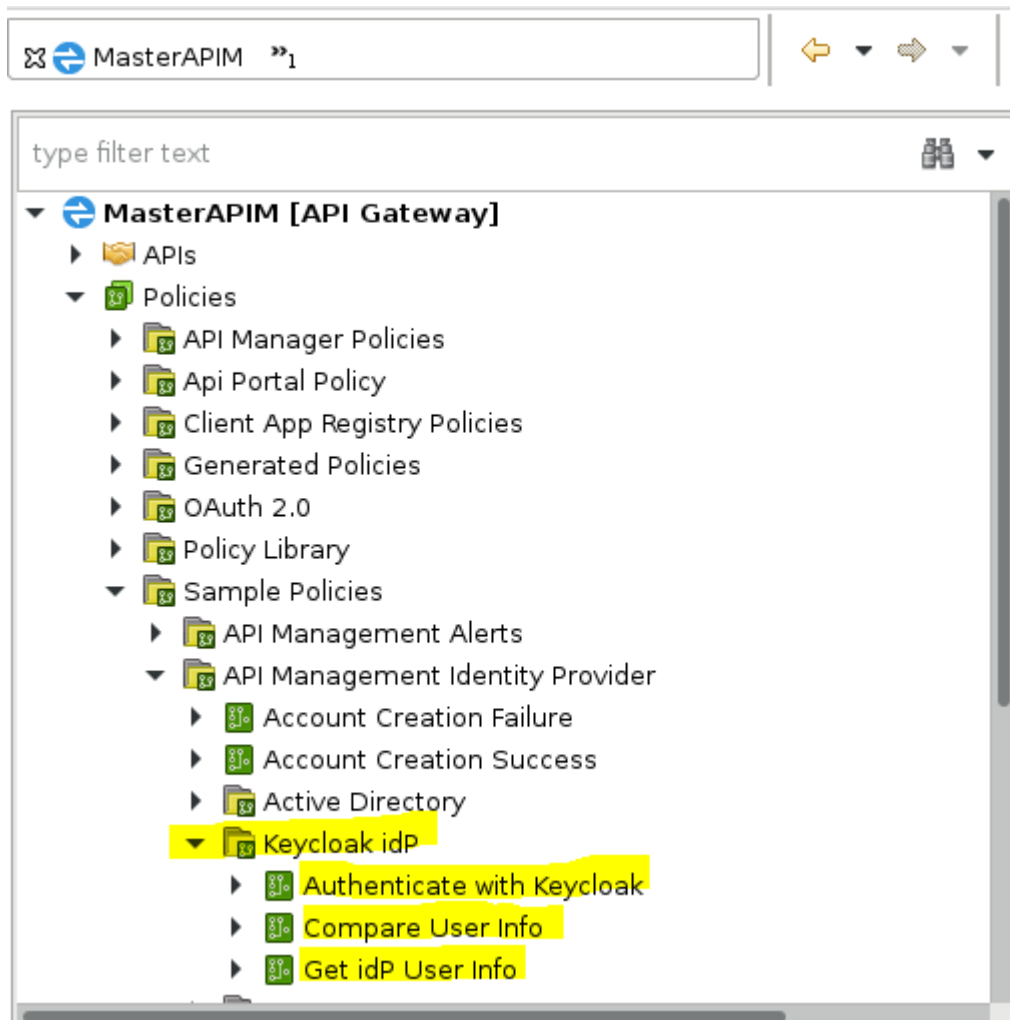
API to authenticate user on idP



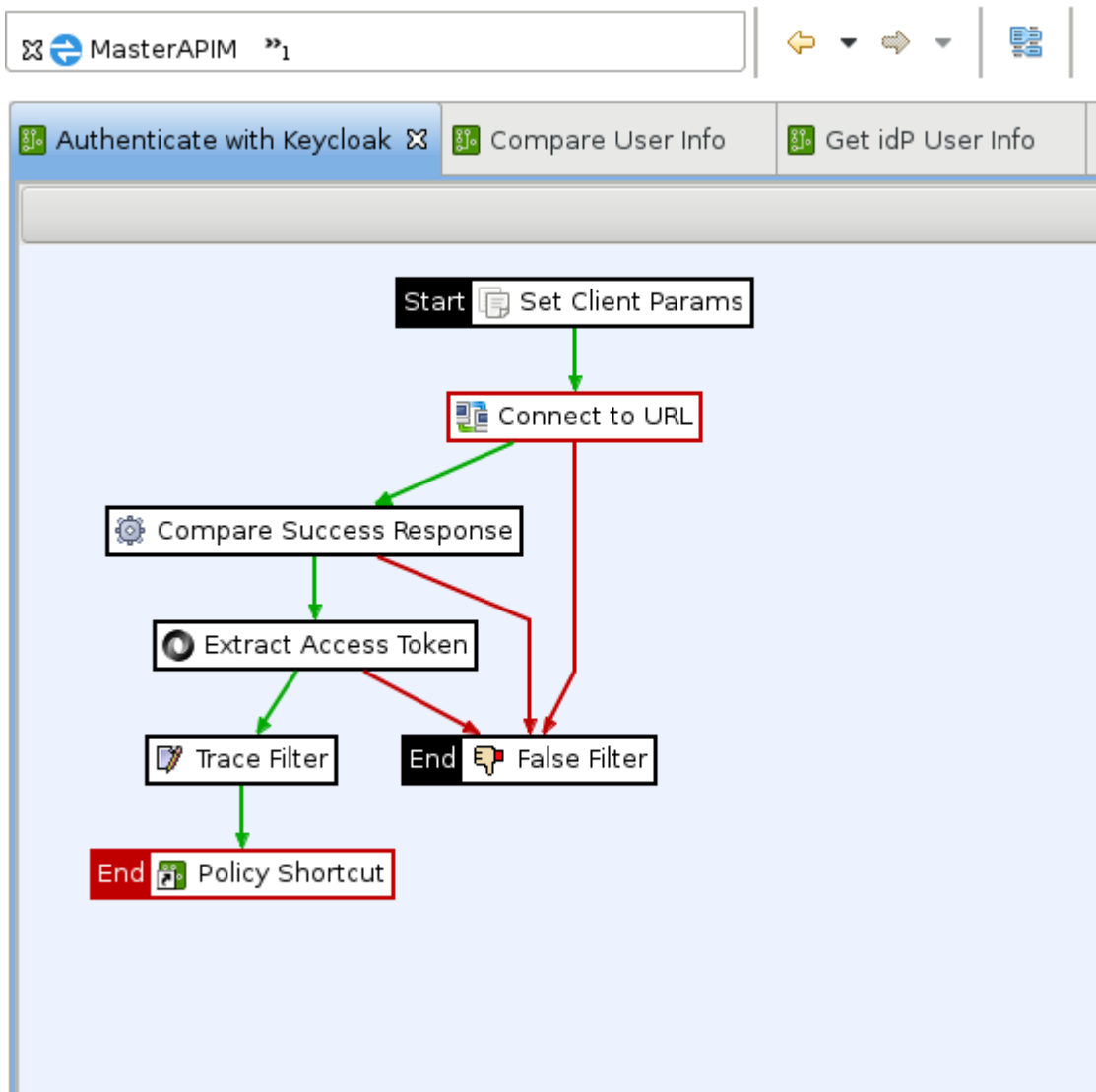
API to fetch user data from idP



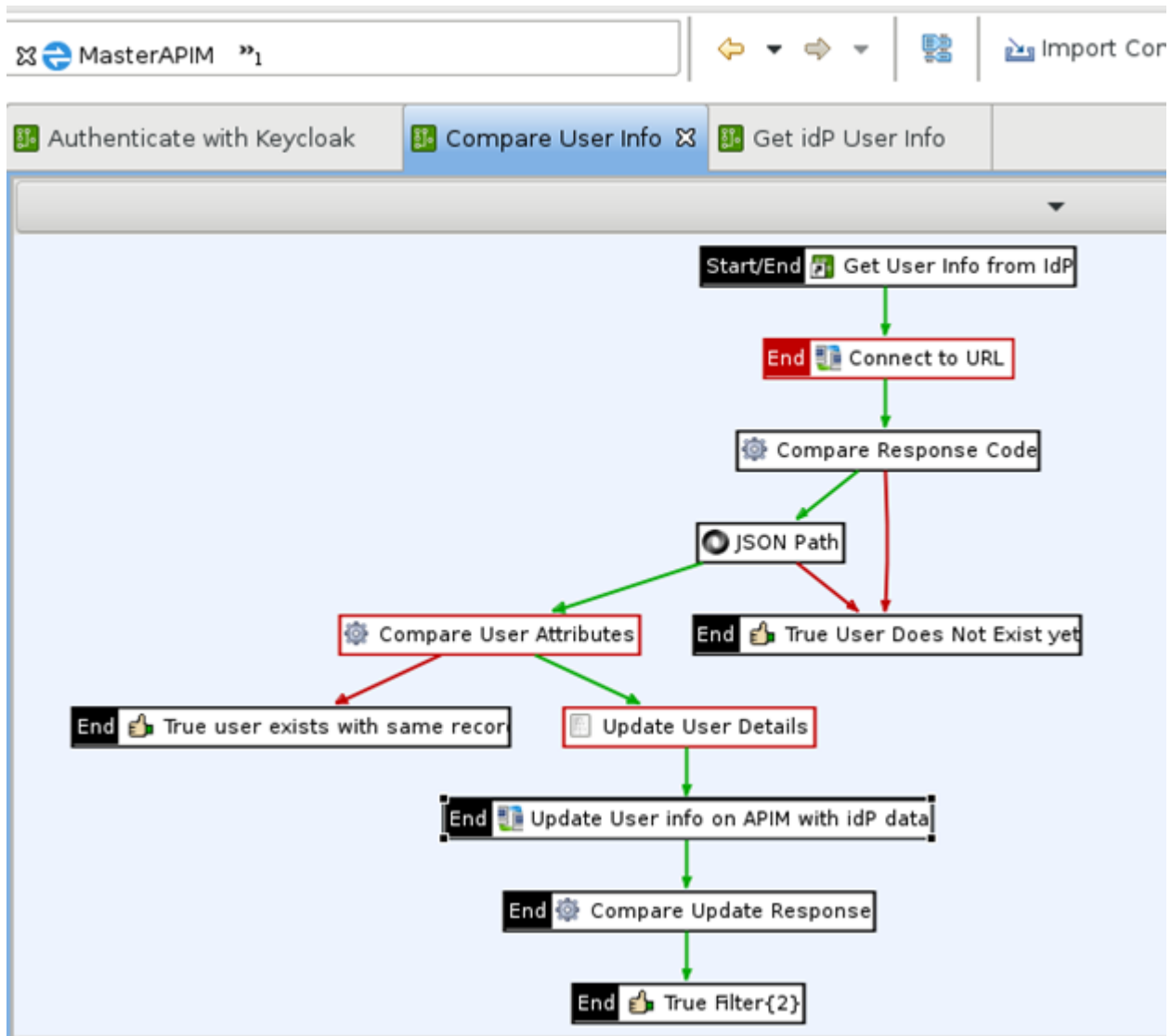
I have created three policies to authenticate and fetch the user information from idP.



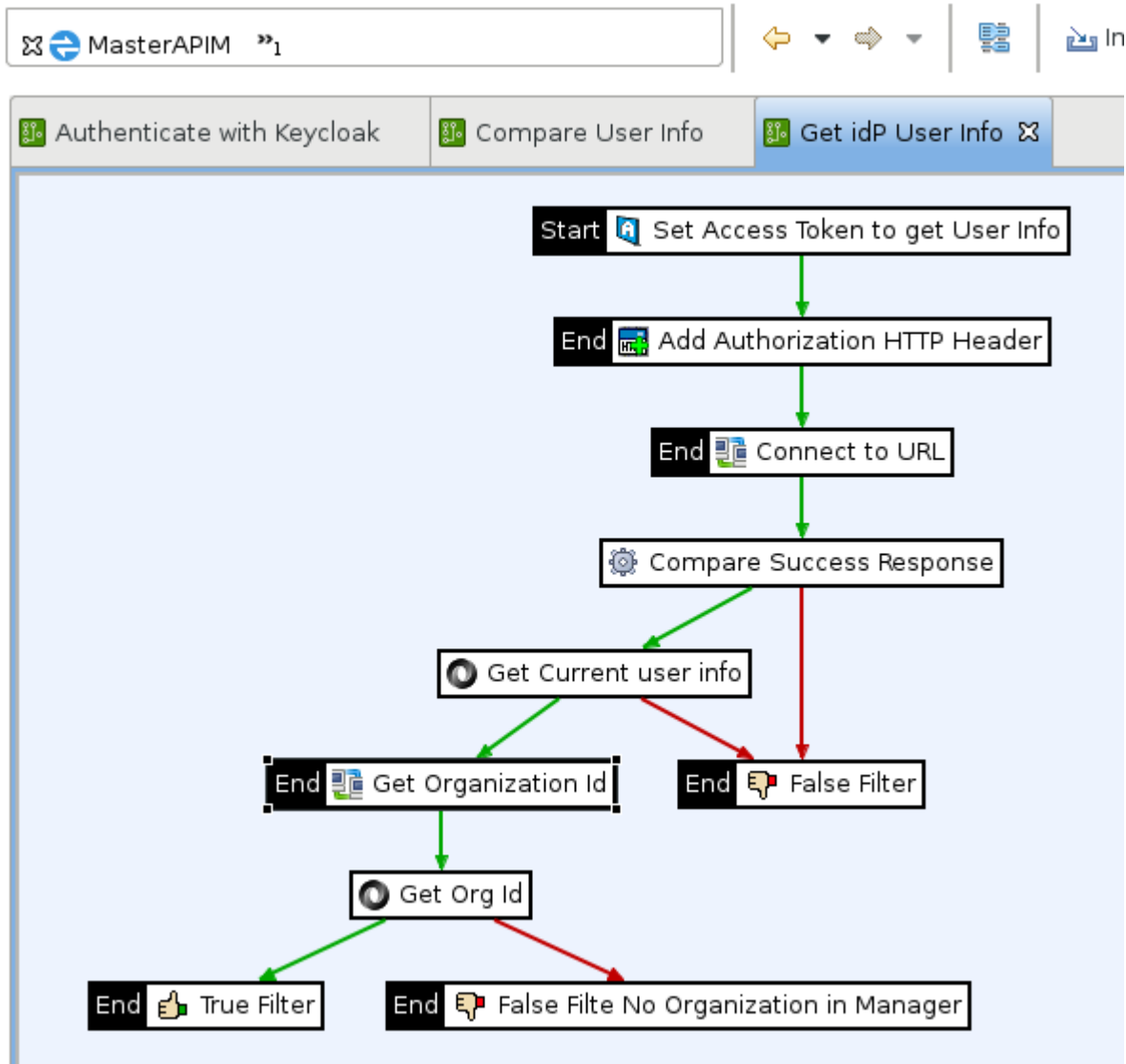
Authenticate with Keycloak Policy: This policy invokes the keycloak idp api call to obtain the access token if the user is successfully authenticated. This policy also calls another policy to check if there is an update on idP which is not in sync with API Manager.



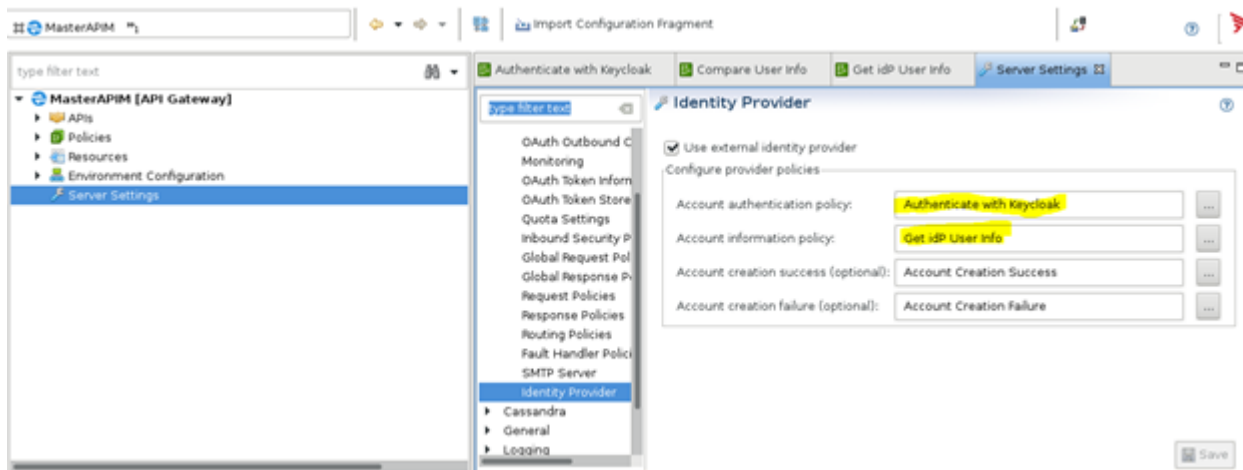
Compare User Info Policy: This policy calls Get User Info policy to get the user information from idP and checks if there is an update on idP which is not in sync with API Manager. If there is any update on idP for user data, same is updated on API manager.



Get idP User Info: This policy fetches the user information from idP using the obtained access token.



Configure external idP for login:



For some additional details, please refer

https://docs.axway.com/bundle/APIPortal_762_InstallationGuide_allIOS_en_HTML5/page/Content/APIPortalInstallGuideTopics/connect_to_multiple_apimgrs.htm