

apache / airflow Public

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Update UI authentication to handle JWT token in backend #56633

Merged vincbeck merged 1 commit into apache:main from aws-mwaa:vincbeck/auth_fix on Oct 15, 2025

[Conversation](#) 17 [Commits](#) 1 [Checks](#) 110 [Files changed](#) 19



vincbeck commented on Oct 14, 2025

Contributor

Resolves [#55143](#).

For better simplicity and better security this PR updates the Airflow UI authentication. With this change the front-end no longer needs to handle the JWT token, it makes API calls to Airflow API (public and UI APIs) with no authentication. A fallback mechanism is added to the back-end so that, if no authentication is provided as part of a request, it fetches the JWT token from the cookies (if it exists). This cookie is saved by auth managers like today, the only change is now this cookie is httpOnly, so Javascript cannot read it.

^ Add meaningful description above

Read the [Pull Request Guidelines](#) for more information.

In case of fundamental code changes, an Airflow Improvement Proposal ([AIP](#)) is needed.


In case of a new dependency, check compliance with the [ASF 3rd Party License Policy](#).

In case of backwards incompatible changes please leave a note in a newsfragment file, named `{pr_number}.significant.rst` or `{issue_number}.significant.rst`, in [airflow-core/newsfragments](#).


1



vincbeck requested review from [bbovenzi](#), [bugraoz93](#), [eladkal](#), [ephraimbuddy](#), [jason810496](#), [jscheffl](#), [o-nikolas](#), [pierrejeambrun](#), [rawwar](#), [ryanahamilton](#) and [shubhamraj-git](#) as [code owners](#) 6 months ago

 **boring-cyborg** added **area:API** **area:providers** **area:UI** **kind:documentation** **provider:amazon** **provider:fab** **provider:keycloak** labels on Oct 14, 2025

 **vincbeck** added the **backport-to-v3-1-test** label on Oct 14, 2025

 **vincbeck** force-pushed the **vincbeck/auth_fix** branch from **b585b34** to **4bc8f87** Compare
6 months ago


 **vincbeck** requested review from **ashb** and **potiuk** 6 months ago


 **vincbeck** changed the title **Update authentication to handle JWT token in backend Update UI authentication to handle JWT token in backend** on Oct 14, 2025


 **vincbeck** mentioned this pull request on Oct 14, 2025

Update refresh token flow #55506

 Merged

 **vincbeck** force-pushed the **vincbeck/auth_fix** branch from **4bc8f87** to **afe41f5** Compare
6 months ago

 **vincbeck** requested review from **amoghrajesh**, **gopidesupavan** and **jedcunningham** as **code owners** 6 months ago

 **vincbeck** force-pushed the **vincbeck/auth_fix** branch 2 times, most recently from **17fcb0a** to **5a6a1d2** Compare
6 months ago

6 hidden items

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 **vincbeck** reviewed on Oct 15, 2025


[View reviewed changes](#)




jason810496 left a comment



Member

LGTM on API and Auth Manager side

 **vincbeck** force-pushed the `vincbeck/auth_fix` branch 3 times, most recently from `026762d` to `44f0f22` [6 months ago](#) Compare


  [Update authentication to handle JWT token in backend](#) ✓ [a5142bd](#)


 **vincbeck** force-pushed the `vincbeck/auth_fix` branch from `44f0f22` to `a5142bd` [6 months ago](#) Compare

  **pierrejeambrun** approved these changes [on Oct 15, 2025](#)
[View reviewed changes](#)

 **pierrejeambrun** left a comment Member

LGTM, thanks

 **vincbeck** merged commit `b8af111` into `apache:main` [on Oct 15, 2025](#) View details
210 of 211 checks passed

 **vincbeck** deleted the `vincbeck/auth_fix` branch [6 months ago](#)

github-actions bot commented [on Oct 15, 2025](#)

Backport failed to create: v3-1-test. View the failure log [Run details](#)

Status	Branch	Result
✖	v3-1-test	Commit <code>b8af111</code>

You can attempt to backport this manually by running:

```
cherry_picker b8af111 v3-1-test
```




This should apply the commit to the v3-1-test branch and leave the commit in conflict state marking the files that need manual conflict resolution.

After you have resolved the conflicts, you can continue the backport process by running:

```
cherry_picker --continue
```

  vincbeck mentioned this pull request [on Oct 15, 2025](#)

[v3-1-test] Update authentication to handle JWT token in backend #56677

 Merged

vincbeck commented [on Oct 15, 2025](#)

Contributor Author

Backport: [#56677](#)

  vincbeck mentioned this pull request [on Oct 15, 2025](#)

Keycloak provider infinitely redirects after login #56152

 Closed

 2 tasks

 **snreddygopu** pushed a commit to Teradata/airflow that referenced this pull request [on Oct 16, 2025](#)

 [Update authentication to handle JWT token in backend \(apache#56633\)](#) [d694c69](#)

  eladkal mentioned this pull request [on Oct 22, 2025](#)

Status of testing Providers that were prepared on October 22, 2025 #57080

 Closed

 69 tasks

IDo4axD commented [on Oct 22, 2025](#)

Invalid parameter: redirect_uri

I've been working with Airflow and Keycloak, and ran into the same issue: Airflow sends an incorrect `redirect_uri` using `http` instead of `https`, which is insecure. I want it to use `https`.

https://github.com/apache/airflow/blob/main/providers/keycloak/src/airflow/providers/keycloak/auth_manager/routes/login.py

I've tried setting `base_url` in the config, but it has no effect — the redirect still uses `http` during the login flow. My Airflow web UI is behind NGINX, which is properly configured to forward all necessary headers and redirect to `https`.

From what I understand, this seems to be a widespread issue, and I'd like to know when it will be fixed.

Also, in the newer Airflow versions, I can no longer use the old OIDC config with Flask AppBuilder to temporarily bypass the issue — it's no longer compatible.



potiuik added this to the **Airflow 3.1.1** milestone on Oct 22, 2025

vincbeck commented on Oct 22, 2025

Contributor

Author

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Interesting. I think the issue comes from the fact the api server is behind a proxy. When Airflow does `request.url_for("login_callback")`, it assumes it uses `http` instead of `https`. https://github.com/Kludex/uvicorn/blob/main/uvicorn/middleware/proxy_headers.py looks the perfect candidate to fix that. Is that okay to add that middleware [@pierrejeambrun](#) or we are trying to limit the number of middlewares as much as we can?

Also, in the newer Airflow versions, I can no longer use the old OIDC config with Flask AppBuilder to temporarily bypass the issue — it's no longer compatible.

OIDC authentication has been removed from `Flask-appbuilder 5`, so yes, this option is longer possible in Fab auth manager because it now uses `Flask-appbuilder 5`.

pierrejeambrun commented [on Oct 22, 2025](#)

Member

We've been trying to avoid setting any responsibility in Airflow for handling https, and leave that up to the proxy to do SSL termination.

Similarly can this be fixed at the NGINX level instead? @Romanchyk

IDo4axD commented [on Oct 22, 2025](#) · edited ▾

@pierrejeambrun

It example of my NGINX configuration: I have a default redirect that forces all HTTP traffic to HTTPS.

According to the documentation you shared, I've already configured all the required headers X-Forwarded-Proto.


I also tried setting the following environment variable, but it didn't help:

- name: AIRFLOW__API__UVICORN_CMD_ARGS
value: "--host 0.0.0.0 --port 8080 --proxy-headers"

Next, I'll try overriding the headers explicitly using serverSnippet, because I'm using a VirtualServer (Kubernetes NGINX custom resource).

```
location / {  
    proxy_connect_timeout 200s;  
    proxy_read_timeout 200s;  
    proxy_send_timeout 200s;  
    client_max_body_size 0;  
    proxy_buffer_size 8k;  
    proxy_ssl_verify off;  
  
    proxy_buffering on;  
    proxy_http_version 1.1;  
    proxy_set_header Upgrade $http_upgrade;  
    proxy_set_header Connection $connection_upgrade;  
    proxy_pass_request_headers on;  
    proxy_set_header X-Real-IP $remote_addr;  
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;  
    proxy_set_header X-Forwarded-Host $host;  
    proxy_set_header X-Forwarded-Port $server_port;  
    proxy_set_header X-Forwarded-Proto $scheme;  
    proxy_set_header Host $host;  
    proxy_pass https://airflow-test-api-server;  
    proxy_next_upstream error timeout;  
    proxy_next_upstream_timeout 0s;  
    proxy_next_upstream_tries 0;  
}
```



 **TyrellHaywood** pushed a commit to TyrellHaywood/airflow that referenced this pull request on [Oct 22, 2025](#)



[Update authentication to handle JWT token in backend \(apache#56633\)](#)

[384a8d2](#)

IDO4axD commented on [Oct 23, 2025](#)

[@pierrejeambrun](#)

It can't be fixed via the proxy, because the client is already coming over HTTPS. The redirect is being performed by Airflow itself. Most likely, the issue needs to be fixed in the AuthManager, as it doesn't know the correct scheme (HTTP/HTTPS) to use for redirecting the request.

IDO4axD commented on [Oct 23, 2025](#)

You need to take a more serious approach to setting up Airflow through Keycloak. There's no documentation, and a lot of errors appear due to the default configurations. There are many issues overall. It would be preferable to use OIDC in newer versions since it's more stable, or to properly configure and debug the integration with the new manager.

pierrejeambrun commented on [Oct 23, 2025](#)

Member

You need to rewrite the `location` header at the proxy level to make sure it starts with `https`.

You can take a look at `proxy_redirect` that should solve your problem.

You need to take a more serious approach to setting up Airflow through Keycloak. There's no documentation, and a lot of errors appear due to the default configurations. There are many issues overall. It would be preferable to use OIDC in newer versions since it's more stable, or to properly configure and debug the integration with the new manager.

This is all done and maintained mostly by people working on Airflow pro bono and on their free time, the best way to see improvement is to contribute yourself. If you feel like something is not right or need some improvement (documentation, code etc..) feel free to open a PR. That is also the best way to contribute back for the software you get for free. This is especially true for providers that are community maintained, if nobody keeps maintaining them, we might suspend and even remove them at some point.

IDO4axD commented on [Oct 23, 2025](#)

proxy_redirect won't help, because this comes from the client — I'm already connecting via HTTPS. I've tried specifying it.

I've now enabled http_valid_uri on the Keycloak side.

Now I'm facing the need to configure permissions.

According to this documentation:

<https://airflow.apache.org/docs/apache-airflow-providers-keycloak/stable/auth-manager/manage/permissions.html>

It's not clear whether I can do this through webserver-config.

I'd prefer not to configure it manually.

I also see there's a way to define it via a command when launching the service. What's the best approach here?

Thank you for your help — I didn't realize the project was community-driven!

vincbeck commented on [Oct 23, 2025](#)

Contributor

Author

You need to take a more serious approach to setting up Airflow through Keycloak. There's no documentation, and a lot of errors appear due to the default configurations. There are many issues overall. It would be preferable to use OIDC in newer versions since it's more stable, or to properly configure and debug the integration with the new manager.

The best way to improve it is to contribute yourself. Handling all different user cases, user architecture, user configuration is clearly impossible. So if you run into an issue and feel the documentation is not good enough, you are the perfect candidate to make it better. Nobody will do it for you. So please do :) I'll be very happy to review the PR

vincbeck commented on [Oct 23, 2025](#)

Contributor

Author

I also see there's a way to define it via a command when launching the service. What's the best approach here?

You can run the commands described in the documentation to automatically configure the permissions in Keycloak for you. If you can, run it from the api-server since you have already configured access to Keycloak there

saaifali commented on [Oct 23, 2025](#) • edited ▾

Hi, I have been facing this issue with my airflow 3 setup behind my enterprise reverse proxy. I see that this will go out with the 3.1.1 release and there is a tag already created for it in the github repo.

When can we expect this to be released?

P.S. Thanks for resolving this issue. I am hoping 3.1.1 will sort out my problems and I can go ahead and deploy this in my enterprise systems.

I would love to contribute to the project as we go ahead!

pierrejeambrun commented on Oct 23, 2025

Member

This PR will be part of 3.1.1

[@saaifali](#) 3.1.1 is being released as we speak, the final version should be out in the next few days, you can follow along on the airflow dev mailing list if you need more information.



jason810496 mentioned this pull request on Nov 9, 2025



Removed unused parameter in logout #58045

Merged

Sign up for free to join this conversation on GitHub. Already have an account? [Sign in to comment](#)

Reviewers

- jason810496**
- potiuk**
- pierrejeambrun**
- bugraoz93**
- eladkal**
- o-nikolas**
- bbovenzi**
- ryanahamilton**
- jscheffl**

-  shubhamraj-git  ●
-  ephraimbuddy  ●
-  rawwar  ●
-  ashb  ●
-  jedcunningham  ●
-  gopidesupavan  ●
-  amoghrajesh  ●

Assignees

No one assigned

Labels

- area:API
- area:providers
- area:UI
- kind:documentation
- provider:amazon
- provider:fab
- provider:keycloak

Projects

None yet

Milestone

Airflow 3.1.1

Development

Successfully merging this pull request may close these issues.

- ✓ UI - Authentication flow not working with httpOnly cookies

6 participants

