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anonhostpi



## How-To: OAuth2-Proxy (and Keycloak) on OpenWRT

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### Background:

Same as [How-to: Nginx-UI on OpenWRT without Building : linux \(reddit.com\)](#). I'm planning out an ingress vm for proxmox based on OpenWRT. So, in my last post I setup a reverse proxy with a proxy manager. Let's make this ingress controller cooler by adding OAuth2-proxy.

In order to setup OAuth, we need an Identity Provider. For this, we will be installing Keycloak as well.

### Golang and Java (Optional) on OpenWRT

OAuth2-proxy requires golang and Keycloak requires OpenJDK 17. OpenWRT's package repository includes golang. However, it does not include Java. A further challenge is that OpenWRT uses musl instead of glibc for

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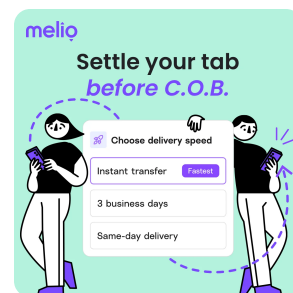
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Also worth noting - unless the Go code links to C libraries or something, Go binaries are statically linked, so you don't *have* to install the golang compiler on the router. You can compile the binary on any host by setting the GOARCH/GOARM environment variables to fit your router's architecture and then just copy the resulting binary over. I've done this for a number of go binaries on OpenWRT and it works fine, and I'm pretty sure that the Go compiler supports every architecture that OpenWRT supports.

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**anonhostpi** OP • 1y ago • Edited 1y ago

Its not a bad idea--you might run into the occasional incompatibility (like the one listed in the post)--but no, I have not tried it.

If I were to install `apk` (Alpine), I may consider doing it manually, as the apk opkg-package is 3 years old (2.12):

- <https://github.com/openwrt/packages/tree/openwrt-22.03/utils/apk>
- apk is now on 2.14: <https://git.alpinelinux.org/apk-tools/>

For the post, I decided to omit cross-compiling, since I see the primary usage for this being in a homelab (not all homelabbers are devs). I still included go's build commands since they are pretty simple, but excluded cross-compiling as I think xcomp is a bit of a higher-level dev skill. On the other hand, building on the target isn't an unheard-of practice for non-devs like sys/net engs. A lot of other software packagers run build commands in their scripts, and I've seen a lot of sys/net engs modify and run these scripts directly regardless of compiler understanding.

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hey thanks for the guide will it be the same procedude if i plan on using keycloak with nginx as a reverse proxy for openwrt ?

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OAuth2-Proxy contains its own minimalistic reverse-proxy, but its primary use is as a session manager *for an external reverse-proxy*. It adds HTTP headers to messages going through it for that reverse-proxy to parse.

Usually traffic would flow like this:

- request hits nginx ("*original request*")
- nginx asks OAuth2-Proxy if the current request has an active session by injecting the relevant HTTP headers from the *original request* into the request to OAuth2-Proxy
- OAuth2-Proxy checks these headers
  - If there is an active OAuth session, OAuth2-Proxy informs nginx that the request is authorized
  - If there is not an active OAuth2 session, OAuth2-Proxy redirects the user to your login provider (keycloak) to get a login token of whatever kind (depends on provider)
    - If OAuth succeeds, OAuth2-Proxy creates a session for the login token and informs nginx that the request is authorized
    - If OAuth fails, OAuth2-Proxy informs nginx that it is not authorized
- nginx will then either forward or deny the traffic based off of OAuth2-Proxy's response
  - IMPORTANT NOTE: Depending on configuration, OAuth2-Proxy can return HTTP headers to nginx for nginx to process. These can include headers like user name, email, login token, etc.
    - This is useful, if either the protected server/resource requires any of this data or if the client does.

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