

# Keycloak Basis Dokumentation

Siehe Gitea Repo Wiki <https://gitea.netzwissen.de/admin2/keycloak-theme/wiki>

Keycloak 18 = Quarkus (aktuell)

Keycloak 17 Wildfly (deprecated). Migration: <https://www.keycloak.org/migration/migrating-to-quarkus>

Weitere Doku:

- [https://www.altenburger.io/posts/install\\_keycloak](https://www.altenburger.io/posts/install_keycloak) \*
- <https://www.keycloak.org/documentation>
- [https://www.keycloak.org/docs/latest/server\\_installation/index.html](https://www.keycloak.org/docs/latest/server_installation/index.html)

## Setup mit Quarkus

Setzen des Admin/PW für den Master Realm über environment variablen vor dem ersten Start. Die Variable wird dann in die Postgres DB rein geschrieben. Weitere Administration danach über das Web UI oder per kcadm.sh

Umgebungsvariablen setzen

```
root@kc1:/opt/keycloak# export KEYCLOAK_ADMIN=admin
root@kc1:/opt/keycloak# export KEYCLOAK_ADMIN_PASSWORD=xxxx
```

Test & Start

```
root@kc1:/opt/keycloak# echo $KEYCLOAK_ADMIN
root@kc1:/opt/keycloak# echo $KEYCLOAK_ADMIN_PASSWORD
root@kc1:/opt/keycloak# ./bin/kc.sh start
```

<https://www.serverlab.ca/tutorials/linux/administration-linux/how-to-set-environment-variables-in-linux/>

## Keycloak behind load balancer

[https://www.keycloak.org/docs/latest/server\\_installation/#\\_setting-up-a-load-balancer-or-proxy](https://www.keycloak.org/docs/latest/server_installation/#_setting-up-a-load-balancer-or-proxy)

Mit Haproxy: Config proxy=edge. In Haproxy muss X-Forwarded-For gesetzt sein:

```
backend login-backend
  option forwardfor
  server login.netzwissen.de 10.10.10.20:8080 check verify none
  http-request set-header X-Forwarded-Port %[dst_port]
  http-request add-header X-Forwarded-Proto https if { ssl_fc }
```

```
http-request add-header X-Forwarded-For %[src]
## HSTS header, 16000000 seconds: a bit more than 6 months
http-response set-header Strict-Transport-Security "max-age=16000000;
includeSubDomains; preload;"
```

## Keycloak connected to Postgresql

<https://www.tutorialsbuddy.com/keycloak-postgresql-setup>

Wichtig: Die Keycloak DB braucht UTF8 encoding, nicht den SQL\_ASCII Standard. Siehe [postgres](#)

## Setup eines Realm

[https://wjw465150.gitbooks.io/keycloak-documentation/content/server\\_admin/topics/realms/create.html](https://wjw465150.gitbooks.io/keycloak-documentation/content/server_admin/topics/realms/create.html)

[https://www.keycloak.org/docs/latest/server\\_admin/](https://www.keycloak.org/docs/latest/server_admin/)

## User Self Registration

- <https://robferguson.org/blog/2019/12/24/getting-started-with-keycloak/>
- <https://www.baeldung.com/keycloak-user-registration>
- [https://wjw465150.gitbooks.io/keycloak-documentation/content/server\\_admin/topics/users/user-registration.html](https://wjw465150.gitbooks.io/keycloak-documentation/content/server_admin/topics/users/user-registration.html)

## Andocken des Google IDP

<https://keycloakthemes.com/blog/how-to-setup-sign-in-with-google-using-keycloak>

## Logging

<https://www.keycloak.org/server/logging>

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