\*\*\*\*\*\*\*\*\*\*\*KEYCLOCK\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

https://www.techrunnr.com/how-to-set-up-a-keycloak-server-in-linux/

https://www.keycloak.org/docs/6.0/server\_installation/

http://10.191.159.48:6565/auth/

http://10.191.159.48:6565/auth/admin/master/console/#/realms/master

Add user in keyclock before 1st login by using below comand

user:admin

password:password

./add-user-keycloak.sh -u admin -p password

Then run below url for loging.

http://10.191.159.48:6565/auth/

To Create services for Keyclock so that we can start keyclock as services.

Step:to create service

cat > /etc/systemd/system/keycloak.service <<EOF

[Unit]

Description=Keycloak

After=network.target

[Service]

Type=idle

User=keycloak

Group=keycloak

ExecStart=/opt/keycloak/current/bin/standalone.sh -b 0.0.0.0

TimeoutStartSec=600

TimeoutStopSec=600

[Install]

WantedBy=multi-user.target

EOF

Keycloack integration with adopt code and documentiion

https://www.keycloak.org/documentation

Keycloack integration with Spring Security

https://www.baeldung.com/spring-boot-keycloak

UAT

http://10.191.159.51:6565/auth/admin/master/console/#/realms/master

./add-user-keycloak.sh -u admin -p admin

user: admin

password: admin

< <keystore path="application.keystore" relative-to="jboss.server.config.dir" keystore-password="password" alias="server" key-password="password" generate-self-signed-certificate-host="localhost"/>

---

> <keystore path="application.keystore" relative-to="jboss.server.config.dir" keystore-password="password" alias="server" key-password="password" generate-self-signed-certificate-host="10.191.159.48"/>

579c579

< <inet-address value="${jboss.bind.address.management:127.0.0.1}"/>

---

> <inet-address value="${jboss.bind.address.management:10.191.159.48}"/>

582c582

< <inet-address value="${jboss.bind.address:127.0.0.1}"/>

---

> <inet-address value="${jboss.bind.address:10.191.159.48}"/>

587c587

< <socket-binding name="http" port="${jboss.http.port:8080}"/>

---

> <socket-binding name="http" port="${jboss.http.port:6565}"/>

594c594

< <remote-destination host="${jboss.mail.server.host:localhost}" port="${jboss.mail.server.port:25}"/>

---

> <remote-destination host="${jboss.mail.server.host:10.191.159.48}" port="${jboss.mail.server.port:25}"/>

keyclock services.

https://www.techrunnr.com/how-to-set-up-a-keycloak-server-in-linux/

cat > /etc/systemd/system/keycloak.service <<EOF

[Unit]

Description=Keycloak

After=network.target

[Service]

Type=idle

User=keycloak

Group=keycloak

ExecStart=/opt/keycloak/current/bin/standalone.sh -b 0.0.0.0

TimeoutStartSec=600

TimeoutStopSec=600

[Install]

WantedBy=multi-user.target

EOF

Step 8: Reload the systemd daemon and start Keycloak.

systemctl daemon-reload

systemctl enable keycloak

systemctl start keycloak

Step 9: Create an admin user using below command line.

./bin/add-user-keycloak.sh -u admin -p YOURPASS -r master

\*\*\*\*\*\*\*\*\*\*\*KEYCLOAK CONFIGURATION WITH POSTGRESQL:\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

step1:create user and schema and give all permission to him

CREATE USER keycloak WITH PASSWORD 'keycloak';

CREATE DATABASE keycloak WITH ENCODING 'UNICODE' LC\_COLLATE 'C' LC\_CTYPE 'C' TEMPLATE TEMPLATE0;

GRANT CONNECT ON DATABASE keycloak TO keycloak;

GRANT USAGE ON SCHEMA public TO keycloak;

GRANT SELECT, INSERT, UPDATE, DELETE ON ALL TABLES IN SCHEMA public TO keycloak;

GRANT ALL PRIVILEGES ON ALL TABLES IN SCHEMA public TO keycloak;

GRANT ALL PRIVILEGES ON ALL SEQUENCES IN SCHEMA public TO keycloak;

GRANT ALL PRIVILEGES ON DATABASE keycloak TO keycloak;

ALTER USER keycloak CREATEDB;

ALTER USER keycloak WITH SUPERUSER;

ALTER DEFAULT PRIVILEGES FOR USER keycloak IN SCHEMA public GRANT SELECT, INSERT, UPDATE, DELETE ON TABLES TO keycloak;

step2:create folder structure and put below jar in side it.

/opt/keycloak-12.0.1/modules/system/layers/keycloak/org/postgresql/main/

put below jar and create one module.xml in it and put below entry.

module.xml

<?xml version="1.0" ?>

<module xmlns="urn:jboss:module:1.3" name="org.postgresql">

<resources>

<resource-root path="postgresql-9.4.1212.jar"/>

</resources>

<dependencies>

<module name="javax.api"/>

<module name="javax.transaction.api"/>

</dependencies>

</module>

postgresql-9.4.1212.jar

Step3: go to standalone.xml and put below entry.

/opt/keycloak-12.0.1/standalone/configuration

<datasource jndi-name="java:jboss/datasources/KeycloakDS" pool-name="KeycloakDS" enabled="true" use-java-context="true">

<connection-url>jdbc:postgresql://10.191.216.227:5454/keycloak</connection-url>

<driver>postgresql</driver>

<pool>

<max-pool-size>20</max-pool-size>

</pool>

<security>

<user-name>keycloak</user-name>

<password>keycloak</password>

</security>

</datasource>

<driver name="postgresql" module="org.postgresql">

<xa-datasource-class>org.postgresql.xa.PGXADataSource</xa-datasource-class>

</driver>

configure keycloak with postgres:

https://devopstales.github.io/sso/keycloak2/

/opt/keycloak-7.9.1/lib/jdbc/postgresql/postgresql-42.2.5.jar

configure apr:

http://tomcat.apache.org/native-doc/

ENABLE SSL IN TOMCAT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*FOLLOW THE SAME STEPS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

https://www.fatalerrors.org/a/the-apr-library-was-not-found-on-the-java.library.path.html

keycloak ssl configuration:

Got to below path and add below entry

/etc/httpd/conf.d

<VirtualHost keycloakdev.statebanktimes.in:9100>

SSLEngine on

SSLProtocol all -SSLv2 -SSLv3

SSLCipherSuite HIGH:3DES:!aNULL:!MD5:!SEED:!IDEA

ProxyRequests Off

AllowEncodedSlashes NoDecode

ProxyPreserveHost On

ProxyPass / http://10.191.159.48:6565/

ProxyPassReverse / http://10.191.159.48:6565/

SSLCertificateFile /opt/ssl\_cert/current/devopsdev.statebanktimes.in.crt

SSLCertificateKeyFile /opt/ssl\_cert/current/devopsdev.statebanktimes.in.key

RequestHeader set X-Forwarded-Proto "https"

</VirtualHost>

Got to below path and do change in standalone.xml file:

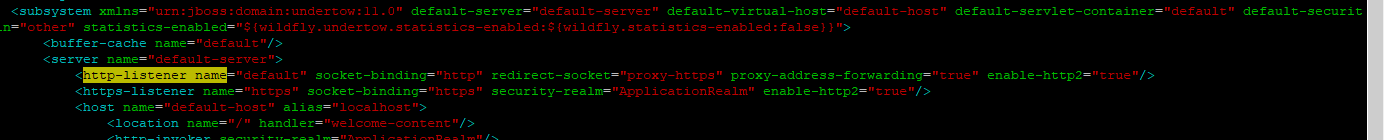
vim /opt/keycloak-12.0.1/standalone/configuration/standalone.xml

<http-listener name="default" socket-binding="http" redirect-socket="https" enable-http2="true"/>

<https-listener name="https" socket-binding="https" security-realm="ApplicationRealm" enable-http2="true"/>

s

**Inplace of above changes put below entry.**



<http-listener name="default" socket-binding="http" redirect-socket="proxy-https" proxy-address-forwarding="true" enable-http2="true"/>

---

> <http-listener name="default" socket-binding="http" redirect-socket="https" enable-http2="true"/>

606d605

< <socket-binding name="proxy-https" port="9100"/>

Put below entry:in stantalone.xml



**Create Services for keycloak:**

[Unit]

Description=Keycloak

After=syslog.target network.target

[Service]

Type=idle

User=root

Group=root

ExecStart=/opt/keycloak-12.0.1/bin/standalone.sh

TimeoutStartSec=600

TimeoutStopSec=600

[Install]

WantedBy=multi-user.target