Concordium Bridge/Proxy setup

### Main routes

/ui/index.html basic UI only for development (non-production page)

/ws/web/frame/<key>/<openId> an access key for connect

/ws/mobile/frame/<conn>/<accessKey> conn and accessKey generate on the previous route

Reconnect routes

/ws/web/reconnect/<key>/<openId>

/ws/mobile/reconnect

### Configuration

Configuration is done via 2 parts

#### Env variables:

* BRIDGE\_SERVICE\_HOST host name, default value is 127.0.0.1, added connect string
* BRIDGE\_SESSION\_LIVE\_PERIOD session live period, default values is 15 (set in the minutes)
* BRIDGE\_ACCESS\_UPDATE\_PERIOD period expiration of connection credentials, default values is 3 (set in the minutes)
* BRIDGE\_PATH\_TO\_STATIC path to static pages, default values "./html/" static pack to Docker container
* BRIDGE\_CERTS\_DIR path where certificates for wss should be placed. Filenames format is domain-name.crt domain-name.key
* BRIDGE\_TLS\_MODE using BRIDGE\_CERTS\_DIR property to run web service on the 443 port with TLS layer and repeats the behavior of BRIDGE\_TLS\_LINKS
* BRIDGE\_TLS\_LINKS change schema of URL to the current resource from http -> https and ws -> wss

#### registry.json

list of objects with definition of keys and urls for websocket connection.

* open\_key should be uniq for all objects in set.
* host hostname of client with schema ([https://client.xxx.com](https://client.xxx.com/), [http://localhost:3000](http://localhost:3000/))

[

{

"open\_key" : "000000000",

"host" : "http://localhost:8888",

"details" : {

"title" : "Dev Local Machine",

"description" : "foo bar",

"icon\_link" : "https://image.flaticon.com/icons/png/512/4666/4666195.png"

}

}

]

### Run

#### With external http/https proxy server

docker-compose.yml

version: "3.5"

services:

concordium-bridge:

image: concordiumtech/concordium-bridge:latest

container\_name: concordium-bridge

ports:

- 8889:8888

restart: always

volumes:

- /opt/ws-bridge/registry.json:/registry.json

environment:

BRIDGE\_SERVICE\_HOST: "bridge.test.com"

BRIDGE\_TLS\_MODE: 0

BRIDGE\_TLS\_LINKS: 1

registry.json (allows connection from [http://localhost:8888](http://localhost:8888/), [https://bridge.test.com](https://bridge.test.com/), [https://client.test.com](https://client.test.com/))

[

{

"open\_key" : "000000000",

"host" : "http://localhost:8888",

"details" : {

"title" : "Dev Local Machine",

"description" : "foo bar",

"icon\_link" : "https://image.flaticon.com/icons/png/512/4666/4666195.png"

}

},

{

"open\_key" : "000000sdrt",

"host" : "https://bridge.test.com",

"details" : {

"title" : "Bridge test instance",

"description" : "foo bar",

"icon\_link" : "https://image.flaticon.com/icons/png/512/4666/4666195.png"

}

},

{

"open\_key" : "sdefrefre24",

"host" : "https://client.test.com",

"details" : {

"title" : "Client test instance",

"description" : "foo bar",

"icon\_link" : "https://image.flaticon.com/icons/png/512/4666/4666195.png"

}

},

]

nginx config

server {

server\_name xxx;

access\_log /var/log/nginx/xxx\_access.log;

error\_log /var/log/nginx/xxx\_error.log;

proxy\_connect\_timeout 900s;

proxy\_send\_timeout 900s;

proxy\_read\_timeout 900s;

location / {

proxy\_pass http://127.0.0.1:8889;

proxy\_read\_timeout 900;

proxy\_send\_timeout 900;

keepalive\_timeout 900;

add\_header "Access-Control-Allow-Origin" \*;

proxy\_set\_header Host $host;

proxy\_set\_header http\_x\_forwarded\_for $remote\_addr;

proxy\_set\_header Upgrade $http\_upgrade;

proxy\_set\_header Connection "Upgrade";

proxy\_http\_version 1.1;

}

listen 443 ssl;

ssl\_certificate /etc/nginx/ssl/fullchain.pem;

ssl\_certificate\_key /etc/nginx/ssl/privkey.pem;

}

server {

if ($host = xxx) {

return 301 https://$host$request\_uri;

}

listen 80;

listen [::]:80;

server\_name xxx;

return 404;

}

#### With embeded http/https server

docker-compose.yml

version: "3.5"

services:

concordium-bridge:

image: concordiumtech/concordium-bridge:latest

container\_name: concordium-bridge

ports:

- 80:80

- 443:443

restart: always

volumes:

- /opt/ws-bridge/certs:/certs

- /opt/ws-bridge/registry.json:/registry.json

environment:

BRIDGE\_SERVICE\_HOST: "xxx"

BRIDGE\_TLS\_MODE: 1

BRIDGE\_CERTS\_DIR: /certs

registry.json

[

{

"open\_key" : "000000000",

"host" : "http://localhost:8888",

"details" : {

"title" : "Dev Local Machine",

"description" : "foo bar",

"icon\_link" : "https://image.flaticon.com/icons/png/512/4666/4666195.png"

}

}

]