ER2 FLOOD
PRODUCTION ENVIRONMENT

F R O N T E N D | A P P L I C A T I O N   L A Y E R | B A C K E N D

<Front-end-url>
<Front-end-server-IP>

<Application-layer-url>
<application-layer-IP>

<backend-url>
<backend-IP>

Apache 2.4 :80

Front-end client
Gunicorn server
Flask app
:5002

ER2 API
Gunicorn server
Flask app
:5001

Message broker
Redis
:6379

Celery worker

Mapserver
NGINX :84

WMS Mediator
:83
<application-layer-IP>

Mapserver
:81
<backend-IP>

PostgreSQL
er2wps_results
:5432

POST initiate simulation

JSON resp. – task ID

Issues task (XML)

XML resp. – task ID

Query (job ID)

Result/
geometries

Request inventory

GET progress update
(task ID)

JSON resp. – progress

Check progress
(XML; task ID)

Progress (XML)

Results and progress

SQL resp – inventory

GET block results

JSON resp. – block results

Request block results (SQL)

SQL resp. – block results

GET GetMap (job ID)

Result layers (image)

Docker container

Non-dockerized application