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Introduction

This document outlines how to create a setup to run dockers that are needed to run our application in your environment. All the examples are based on how we did it with our infrastructure, but it should be as much service-agnostic as possible. In your case, some resources might have to be adjusted.

We will provide you with an example of Kubernetes manifests. In this document we will sometimes reference names of those manifests when discussing applying it. We are using Fargate and EC2 for this setup.

Third-party images

Assuming that your machines won't be able to connect externally, we recommend that you put the necessary third-party container images into your internal container registry. We assume that you are also using ECR Repositories.

Redis

We assume that Redis is running in the `naturalantibody-platform-redis` namespace, though you can adjust this to match your environment.

Example namespace definition:

```
apiVersion: v1
kind: Namespace
metadata:
  name: naturalantibody-platform-redis
```

The official Redis image is available at [redis - Official Image | Docker Hub](#)

We recommend using **Redis version 8.0**.

For deployment instructions, refer to the [official Redis documentation](#).

Check if Redis is running:

```
$ kubectl get pods -n=naturalantibody-platform-redis
```

NAME	READY	STATUS	RESTARTS	AGE
redis-67f8bff8b6-q4lct	1/1	Running	0	29m

RabbitMQ

We assume that RabbitMQ runs in the namespace `naturalantibody-platform-rabbitmq` and `naturalantibody-platform-rabbitmq-system`, but you can modify these to match your environment.

Example namespace definition:

```
apiVersion: v1
kind: Namespace
metadata:
  name: naturalantibody-platform-rabbitmq
```

The official RabbitMQ image is available at https://hub.docker.com/_/rabbitmq

We recommend using **RabbitMQ version 4.1.2**

For deployment instructions, refer to the [official documentation](#)

Check if RabbitMQ is running:

```
$ kubectl get pods -A | grep rabbitmq
```

naturalantibody-platform-rabbitmq	rabbitmq-server-0	1/1	Running	0
				4d

MongoDB

We assume that MongoDB runs in the namespace `naturalantibody-platform-mongo`, but you can modify this to match your environment.

Example namespace definition:

```
apiVersion: v1
kind: Namespace
metadata:
  name: naturalantibody-platform-mongo
```

The official RabbitMQ image is available at https://hub.docker.com/_/mongo

We recommend using **RabbitMQ version 4.1.2**

For deployment instructions, refer to the [official documentation](#)

We are requiring a few databases called:

- mailer
- users
- search
- sequence_engineering
- project_management

And users for each database with read/write permissions

Example of how to create a user:

<https://www.mongodb.com/docs/manual/reference/method/db.createUser/>

Dumps for this part are stored in s3 bucket:

```
aws s3 cp s3://naturalantibody-public-dumps/search.tar.xz . --request-payer requester
```

Example uploading dump using mongorestore:

1. Install Mongo Database Tools
2. Copy dumps to `./dump` on the machine that can connect to Mongo

3. `mongorestore --username root --password <password-for-mongodb-root> --authenticationDatabase=admin mongodb://<your-mongo-host>/search?ssl=false&authMechanism=SCRAM-SHA-256`

Natural Antibody Images

All of the following images can be pulled from the ECR repository in our organization that you have access to.

Users

Images required for this:

- `071253002612.dkr.ecr.eu-central-1.amazonaws.com/naturalantibody-users-repository-public:latest`

We assume that Users run in the namespace `naturalantibody-platform`, but you can change it to fit your setup. Ensure that URLs are correct based on a namespace.

Change `nodeSelector` and `tolerances` to fit your setup.

Environment variables

Only variables that you need to change to match your setup.

- `MONGODB_PASSWORD`

Example:

```
- name: MONGODB_PASSWORD
  valueFrom:
    secretKeyRef:
      key: password
      name: mongodb-users
```

Value:

Password for the database that is used for the users microservice.

- MONGODB_URL

Example:

```
- name: MONGODB_URL
  value: mongodb://users:$(MONGODB_PASSWORD)@mongodb-svc.naturalantibody-platform-mongo.svc.cluster.local/users?ssl=false&authSource=admin
```

Value:

Connect URL for MongoDB.

`mongodb://<user for this database>:$(MONGODB_PASSWORD)@<internal DNS record of MongoDB service>/<database name>?ssl=false&authSource=admin`

- MAILER

Example:

```
- name: MAILER
  value: MICROSERVICE
```

Value:

Possible values: [MICROSERVICE, DUMMY]

For testing you can just use DUMMY which will print the mail content to logs.

MICROSERVICE needs a running Mailer container.

- FORGOT_PASSWORD_URL

Example:

```
- name: FORGOT_PASSWORD_URL
  value: https://open.naturalantibody.com/forgot-password/reset
```

Value:

External address of frontend + /forgot-password/reset

- MAILER_API_URL

Example:

```
- name: MAILER_API_URL  
value: http://mailer.naturalantibody-platform-mongo.svc.cluster.local
```

Value:

Internal DNS record of Mailer service.

If your MAILER value is DUMMY, this can be whatever you want.

- CHANGE_MAIL_URL

Example:

```
- name: CHANGE_MAIL_URL  
value: 'https://open.naturalantibody.com/reset-email'
```

Value:

External address of frontend + /reset-email

- REDIS_URL

Example:

```
- name: REDIS_URL  
value: redis.naturalantibody-platform-redis.svc.cluster.local
```

Value:

Internal DNS record of Redis.

- SECRET_KEY

Example:

```
- name: SECRET_KEY  
valueFrom:  
  secretKeyRef:  
    key: password  
    name: token-secret
```

Value:

Secret that contains value used for creating and unpacking authorization tokens.

Other variables

- image

Example:

```
image: <aws account id>.dkr.<url for ECR repository for users>:v1.0.0
```

Value:

URL to Users microservice image.

- namespace

Example:

```
namespace: naturalantibody-platform
```

Value:

Name of main namespace used for services.

Steps to apply manifests for users:

```
kubectl apply -f users/deployment.yaml
```

API Gateway

Images required for this:

- 071253002612.dkr.ecr.eu-central-1.amazonaws.com/naturalantibody-api-gateway-repository-public:latest

We assume that API Gateway runs in the namespace `naturalantibody-platform`, but you can change it to fit your setup.

Change nodeSelector and tolerances to fit your setup.

Environment variables

Only variables that you need to change to match your setup.

- SECRET_KEY

Example:

```
- name: SECRET_KEY
  valueFrom:
    secretKeyRef:
      key: password
      name: token-secret
```

Value:

A secret that contains value used for creating and unpacking authorization tokens.

- REDIS_URL

Example:

```
- name: REDIS_URL
  value: redis.naturalantibody-platform-redis.svc.cluster.local:6379
```

Value:

Internal DNS record of Redis + port.

- SEARCH_API_URL

Example:

```
- name: SEARCH_API_URL
  value: http://search-api.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Antibody Databases service.

- USERS_API_URL

```
- name: USERS_API_URL
  value: http://users.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Users service.

- SEQUENCE_ENGINEERING_API_URL

Example:

```
- name: SEQUENCE_ENGINEERING_API_URL
  value:
http://sequence-engineering-api.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Sequence Engineering service.

- PROJECT_MANAGEMENT_API_URL

Example:

```
- name: PROJECT_MANAGEMENT_API_URL
  value:
http://project-management-api.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Project Management service.

- COOKIE_DOMAIN

Example:

```
- name: COOKIE_DOMAIN
  value: .naturalantibody.com
```

Value:

Domain part of the external URL for the frontend.

- UI_URL

Example:

```
- name: UI_URL  
  value: "https://open.naturalantibody.com"
```

Value:

External URL for frontend.

Other variables

- image

Example:

```
image: <aws account id>.dkr.<url for ECR repository for api  
gateway>:v1.0.0
```

Value:

URL to API Gateway microservice image.

- namespace

Example:

```
namespace: naturalantibody-platform
```

Value:

Name of the main namespace used for services.

Steps to apply manifests for users:

```
kubectl apply -f api-gateway/deployment.yaml
```

Frontend

Images required for this:

- 071253002612.dkr.ecr.eu-central-1.amazonaws.com/naturalantibody-frontend-repository-public:latest

We assume that Frontend runs in the namespace `naturalantibody-platform`, but you can change it to fit your setup.

Change nodeSelector and tolerances to fit your setup.

Environment variables

Only variables that you need to change to match your setup.

- REDIS_URL

Example:

```
- name: REDIS_URL
  value: redis.naturalantibody-platform-redis.svc.cluster.local:6379
```

- GRAPHQL_ENDPOINT

Example:

```
- name: GRAPHQL_ENDPOINT
  value:
http://api-gateway.naturalantibody-platform.svc.cluster.local/graphql
```

Value:

Internal DNS record of API Gateway service + `/graphql`.

- APP_SERVER_URL

```
- name: APP_SERVER_URL
  value: http://frontend.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of Frontend service

- USERS_API_URL

```
- name: USERS_API_URL
  value: http://users.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Users service.

- SEQUENCE_ENGINEERING_API_URL

Example:

```
- name: SEQUENCE_ENGINEERING_API_URL
  value:
http://sequence-engineering-api.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Sequence Engineering service.

- SEARCH_API_URL

Example:

```
- name: SEARCH_API_URL
  value: http://search-api.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Antibody Databases service.

- PROJECT_MANAGEMENT_API_URL

Example:

```
- name: PROJECT_MANAGEMENT_API_URL
  value:
http://project-management-api.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Project Management service.

- COOKIE_DOMAIN

Example:

```
- name: COOKIE_DOMAIN
  value: .naturalantibody.com
```

Value:

Domain part of the external URL for the frontend.

- TWOFA_TRANSITION_TOKEN_SECRET

```
- name: TWOFA_TRANSITION_TOKEN_SECRET
  valueFrom:
    secretKeyRef:
      name: abstudio-secrets
      key: TWOFA_TRANSITION_TOKEN_SECRET
```

Value:

A secret that is used as salt for creating sessions.

- AUTH_SECRET

```
- name: AUTH_SECRET
  valueFrom:
    secretKeyRef:
      name: abstudio-secrets
      key: AUTH_SECRET
```

Value:

Secret used for Auth0-based login. Secret of the Octa organization.

- CSRF_SECRET

```
- name: CSRF_SECRET
  valueFrom:
    secretKeyRef:
      name: abstudio-secrets
      key: CSRF_SECRET
```

Value:

A secret that is used as salt for tokens that prevents CSRF attacks.

- GRAPHQL_DOC_HOST

Example:

```
- name: GRAPHQL_DOC_HOST  
value: api-docs.open.naturalantibody.com
```

Value:

External address of API Docs Service.

- DOCS_HOST

Example:

```
- name: DOCS_HOST  
value: docs.open.naturalantibody.com
```

Value:

External address of Docs Service.

- NEXT_PUBLIC_DOCS_URL

Example:

```
- name: NEXT_PUBLIC_DOCS_URL  
value: https://docs.open.naturalantibody.com
```

Value:

https:// + external address of Docs Service.

- NEXT_PUBLIC_GRAPHQL_CLIENT_ENDPOINT

Example:

```
- name: NEXT_PUBLIC_GRAPHQL_CLIENT_ENDPOINT  
value: https://platform-api.open.naturalantibody.com/graphql
```

Value:

External address of API Gateway service + /graphql.

- TOKEN_SECRET

Example:

```
- name: TOKEN_SECRET
  valueFrom:
    secretKeyRef:
      name: token-secret
      key: password
```

Value:

A secret that contains value used for creating and unpacking authorization tokens.

- NEXTAUTH_URL

```
- name: NEXTAUTH_URL
  value: https://open.naturalantibody.com
```

Value:

External DNS record of Frontend service

- AUTH0_ISSUER

```
- name: AUTH0_ISSUER
  value: https://organization.eu.auth0.com
```

Value:

Url to Octa app.

- AUTH0_CLIENT_ID

```
- name: AUTH0_CLIENT_ID
  value: 8fs7d8gf87sdgsd8fg7s
```

Value:

ID of Octa app.

- AUTH0_CLIENT_SECRET

```
- name: AUTH0_CLIENT_SECRET
  valueFrom:
    secretKeyRef:
      name: abstudio-secrets
      key: AUTH0_CLIENT_SECRET
```

Value:

Secret of Octa app.

Other variables

- image

Example:

```
image: <aws account id>.dkr.<url for ECR repository for frontend>:v1.0.0
```

Value:

URL to Frontend microservice image.

- namespace

Example:

```
namespace: naturalantibody-platform
```

Value:

Name of the main namespace used for services.

Steps to apply manifests for users:

```
kubectl apply -f frontend/deployment.yaml
```

Ingress

We assume that Ingress is placed in the namespace `naturalantibody-platform`, but you can change it to fit your setup.

Change hosts to match your setup. In all deployments in this part, you have to change `<your-domain-url>` and `<your-api-domain-url>` so it will match the hosts.

This is an example ingress definition to run on an EKS Cluster.

Steps to apply manifest:

```
kubectl apply -f ingress/ingress.yaml
```

Load Balancer

If you want to use AWS ALB, you can check our setup in [aws-load-balancer-controller](#) and [aws-pca-issuer](#). It's created based on this tutorial from AWS:

- <https://docs.aws.amazon.com/eks/latest/userguide/lbc-manifest.html>.

Sequence Engineering

Images required for this:

- 071253002612.dkr.ecr.eu-central-1.amazonaws.com/naturalantibody-sequence-engineering-repository:latest

We assume that Sequence Engineering runs in the namespace [naturalantibody-platform](#), but you can change it to fit your setup.

Change nodeSelector and tolerances to fit your setup.

Environment variables

Only variables that you need to change to match your setup.

- MONGODB_PASSWORD

Example:

```
- name: MONGODB_PASSWORD
  valueFrom:
    secretKeyRef:
      name: mongodb-sequence-engineering
      key: password
```

Value:

Password for the database that is used for the Sequence Engineering microservice.

- MONGODB_URL

Example:

```
- name: MONGODB_URL
  value:
mongodb://sequence-engineering:$(MONGODB_PASSWORD)@mongodb-svc.naturalant
ibody-platform-mongo.svc.cluster.local/sequence_engineering?authSource=admin&ssl=false
```

- SECRET_KEY

Example:

```
- name: SECRET_KEY
  valueFrom:
    secretKeyRef:
      key: password
      name: token-secret
```

Value:

A secret that contains value used for creating and unpacking authorization tokens.

- RABBITMQ_DEFAULT_USER

Example:

```
- name: RABBITMQ_DEFAULT_USER
  valueFrom:
    secretKeyRef:
      name: rabbitmq-default-user
      key: username
```

Value:

Username of the user used in the RabbitMQ service.

- RABBITMQ_DEFAULT_USER_PASSWORD

Example:

```
- name: RABBITMQ_DEFAULT_USER_PASSWORD
  valueFrom:
    secretKeyRef:
      name: rabbitmq-default-user
      key: password
```

Value:

Password for the user used in the RabbitMQ service.

- RABBITMQ_HOST

Example:

```
- name: RABBITMQ_HOST
  valueFrom:
    secretKeyRef:
      name: rabbitmq-default-user
      key: host
```

Value:

Host of internal DNS for the RabbitMQ service.

- USERS_API_URL

```
- name: USERS_API_URL
  value: http://users.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Users service.

- REDIS_URL

Example:

```
- name: REDIS_URL
  value: redis.naturalantibody-platform-redis.svc.cluster.local
```

Value:

Internal DNS record of Redis.

Other variables

- image

Example:

```
image: <aws account id>.dkr.<url for ECR repository for sequence engineering>:v1.0.0
```

Value:

URL to Sequence Engineering microservice image.

- namespace

Example:

```
namespace: naturalantibody-platform
```

Value:

Name of the main namespace used for services.

- fileSystemId

Example:

```
fileSystemId: fs-6rv6b86b5665b
```

Value:

ID of the file system created for persistent volumes.

For services based on the Sequence Engineering image (Sequence Engineering and some workers), you will need to have a disk with models mounted in these containers. Models should be available in **/data**. In our infrastructure, we use file

systems that you can see in persistent-volume-claims.yaml. You don't have to use EFS for that, if you want to use other file systems change it to fit your setup.

You can download all required data from S3:

```
aws s3 cp s3://naturalantibody-public-dumps/naturalantibody-models.tar.xz .  
--request-payer requester
```

Files and directories should be like

```
root@<sequeunce-engineering-pod>:/app# ls /data  
ABDB          deepdiver      docking         immunogenicity  nanobert  
naturalness   developability germlines.json  liabilities      paratope  
profiles      structure_prediction
```

Steps to apply manifests for Sequence Engineering:

```
kubectl apply -f sequence-engineering/persistent-volume-claims.yaml  
kubectl apply -f sequence-engineering/deployment.yaml  
kubectl apply -f sequence-engineering/batch-grained-tasks.yaml  
kubectl apply -f sequence-engineering/batch-tasks.yaml  
kubectl apply -f sequence-engineering/docking-tasks.yaml  
kubectl apply -f sequence-engineering/sequence-engineering-tasks.yaml  
kubectl apply -f sequence-engineering/structural-modeling-tasks.yaml
```

Antibody Databases

Images required for this:

- 071253002612.dkr.ecr.eu-central-1.amazonaws.com/naturalantibody-antibody-databases-repository-public:latest

Change nodeSelector and tolerances to fit your setup.

We assume that Antibody Databases runs in the namespace `naturalantibody-platform`, but you can change it to fit your setup.

Environment variables

Only variables that you need to change to match your setup.

- MONGODB_PASSWORD

Example:

```
- name: MONGODB_PASSWORD
  valueFrom:
    secretKeyRef:
      name: mongodb-search
      key: password
```

Value:

Password for the database that is used for the Antibody Databases microservice.

- DB_HOST

Example:

```
- name: DB_HOST
  value:
mongodb://search:$(MONGODB_PASSWORD)@mongodb-svc.naturalantibody-platform
-mongo.svc.cluster.local/search?ssl=false&authSource=admin
```

Value:

Connect URL for MongoDB.

`mongodb://<user for this database>$(MONGODB_PASSWORD)@<internal DNS record of MongoDB service>/<database name>?ssl=false&authSource=admin`

- RABBITMQ_DEFAULT_USER

Example:

```
- name: RABBITMQ_DEFAULT_USER
  valueFrom:
    secretKeyRef:
      name: rabbitmq-default-user
      key: username
```


Value:

Username of the user used in the RabbitMQ service.

- RABBITMQ_DEFAULT_USER_PASSWORD

Example:

```
- name: RABBITMQ_DEFAULT_USER_PASSWORD
  valueFrom:
    secretKeyRef:
      name: rabbitmq-default-user
      key: password
```

Value:

Password for the user used in the RabbitMQ service.

- RABBITMQ_HOST

Example:

```
- name: RABBITMQ_HOST
  valueFrom:
    secretKeyRef:
      name: rabbitmq-default-user
      key: host
```

Value:

Host of internal DNS for the RabbitMQ service.

- SECRET_KEY

Example:

```
- name: SECRET_KEY
  valueFrom:
    secretKeyRef:
      key: password
      name: token-secret
```

Value:

A secret that contains value used for creating and unpacking authorization tokens.

- REDIS_URL

Example:

```
- name: REDIS_URL
  value: redis.naturalantibody-platform-redis.svc.cluster.local:6379
```

Value:

Internal DNS record of Redis + port.

- USERS_API_URL

```
- name: USERS_API_URL
  value: http://users.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Users service.

Other variables

- image

Example:

```
image: <aws account id>.dkr.<url for ECR repository for antibody
databases>:v1.0.0
```

Value:

URL to the Antibody Databases microservice image.

- namespace

Example:

```
namespace: naturalantibody-platform
```

Value:

Name of the main namespace used for services.

Steps to apply manifests for Antibody Databases:

```
kubectl apply -f antibody-databases/deployment.yaml
```

Mailer

Images required for this:

- 071253002612.dkr.ecr.eu-central-1.amazonaws.com/naturalantibody-mailer-repository-repository-public:latest

Change nodeSelector and tolerances to fit your setup.

We assume that Mailer runs in the namespace `naturalantibody-platform`, but you can change it to fit your setup.

Environment variables

Only variables that you need to change to match your setup.

- MONGODB_PASSWORD

Example:

```
- name: MONGODB_PASSWORD
  valueFrom:
    secretKeyRef:
      name: mongodb-mailer
      key: password
```

Value:

Password for the database that is used for the Mailer microservice.

- MONGODB_URL

Example:

```
- name: MONGODB_URL
```

```
value:
mongodb://mailer:$(MONGODB_PASSWORD)@mongodb-svc.naturalantibody-platform
-mongo.svc.cluster.local/mailer?ssl=false&authSource=admin
```

Value:

Connect URL for MongoDB.

```
mongodb://<user for this database>$(MONGODB_PASSWORD)@<internal DNS
record of MongoDB service>/<database name>?ssl=false&authSource=admin
```

- RABBITMQ_DEFAULT_USER

Example:

```
- name: RABBITMQ_DEFAULT_USER
  valueFrom:
    secretKeyRef:
      name: rabbitmq-default-user
      key: username
```

Value:

Username of the user used in the RabbitMQ service.

- RABBITMQ_DEFAULT_USER_PASSWORD

Example:

```
- name: RABBITMQ_DEFAULT_USER_PASSWORD
  valueFrom:
    secretKeyRef:
      name: rabbitmq-default-user
      key: password
```

Value:

Password for the user used in the RabbitMQ service.

- RABBITMQ_HOST

Example:

```
- name: RABBITMQ_HOST
  valueFrom:
    secretKeyRef:
```

```
name: rabbitmq-default-user
key: host
```

Value:

Host of internal DNS for the RabbitMQ service.

- SECRET_KEY

Example:

```
- name: SECRET_KEY
  valueFrom:
    secretKeyRef:
      key: password
      name: token-secret
```

Value:

A secret that contains value used for creating and unpacking authorization tokens.

- REDIS_URL

Example:

```
- name: REDIS_URL
  value: redis://redis.naturalantibody-platform-redis.svc.cluster.local
```

Value:

redis:// + internal DNS for Redis service.

- USERS_API_URL

Example:

```
- name: USERS_API_URL
  value: http://users.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Users service.

- USE_SSL

Example:

```
- name: USE_SSL  
  Value: true
```

Value:

Boolean. If true, the SMTP server will use SSL; if false, it will use TLS.

- SMTP_SERVER

Example:

```
- name: SMTP_SERVER  
  value: smtp.gmail.com
```

Value:

SMTP provider.

- PORT

Example:

```
- name: PORT  
  value: '587'
```

Value:

Port for SMTP connection.

- USERNAME

Example:

```
- name: USERNAME  
  valueFrom:  
    secretKeyRef:  
      name: client-configuration  
      key: username
```

Value:

Username for the account used to send emails.

- PASSWORD

Example:

```
- name: PASSWORD
  valueFrom:
    secretKeyRef:
      name: client-configuration
      key: password
```

Value:

Password for the account used to send emails.

- SENDER_EMAIL

Example:

```
- name: SENDER_EMAIL
  value: no-reply@naturalantibody.com
```

Value:

What address will be displayed when sending email

Other variables

- image

Example:

```
image: <aws account id>.dkr.<url for ECR repository for mailer>:v1.0.0
```

Value:

URL to Mailer microservice image.

- namespace

Example:

```
namespace: naturalantibody-platform
```

Value:

Name of the main namespace used for services.

Steps to apply manifests for Mailer:

```
kubectl apply -f mailer/deployment.yaml
```

```
kubectl apply -f mailer/mailer-tasks.yaml
```

Project Management

Images required for this:

- 071253002612.dkr.ecr.eu-central-1.amazonaws.com/naturalantibody-project-management-repository-public:latest

Change nodeSelector and tolerances to fit your setup.

We assume that Project Management runs in the namespace `naturalantibody-platform`, but you can change it to fit your setup.

Environment variables

Only variables that you need to change to match your setup.

- MONGODB_PASSWORD

Example:

```
- name: MONGODB_PASSWORD
  valueFrom:
    secretKeyRef:
      name: mongodb-project-management
      key: password
```

Value:

Password for the database that is used for the Project Management microservice.

- MONGODB_URL

Example:

```
- name: MONGODB_URL
  value:
mongodb://project-management:$(MONGODB_PASSWORD)@mongodb-svc.naturalantibody-platform-mongo.svc.cluster.local/project_management?ssl=false&authSource=admin
```

Value:

Connect URL for MongoDB.

```
mongodb://<user for this database>:$(MONGODB_PASSWORD)@<internal DNS record of MongoDB service>/<database name>?ssl=false&authSource=admin
```

- RABBITMQ_DEFAULT_USER

Example:

```
- name: RABBITMQ_DEFAULT_USER
  valueFrom:
    secretKeyRef:
      name: rabbitmq-default-user
      key: username
```

Value:

Username of the user used in the RabbitMQ service.

- RABBITMQ_DEFAULT_USER_PASSWORD

Example:

```
- name: RABBITMQ_DEFAULT_USER_PASSWORD
  valueFrom:
    secretKeyRef:
      name: rabbitmq-default-user
      key: password
```

Value:

Password for the user used in the RabbitMQ service.

- RABBITMQ_HOST

Example:

```
- name: RABBITMQ_HOST
  valueFrom:
    secretKeyRef:
      name: rabbitmq-default-user
      key: host
```

Value:

Host of internal DNS for the RabbitMQ service.

- SECRET_KEY

Example:

```
- name: SECRET_KEY
  valueFrom:
    secretKeyRef:
      key: password
      name: token-secret
```

Value:

A secret that contains value used for creating and unpacking authorization tokens.

- REDIS_URL

Example:

```
- name: REDIS_URL
  value: redis.naturalantibody-platform-redis.svc.cluster.local:6379
```

Value:

Internal DNS record of Redis + port.

- SEARCH_API_URL

Example:

```
- name: SEARCH_API_URL
  value: http://search-api.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Antibody Databases service.

- USERS_API_URL

```
- name: USERS_API_URL
  value: http://users.naturalantibody-platform.svc.cluster.local
```

Value:

Internal DNS record of the Users service.

Other variables

- Image

Example:

```
image: <aws account id>.dkr.<url for ECR repository for project
management>:v1.0.0
```

Value:

URL to Project Management microservice image.

- Namespace

Example:

```
namespace: naturalantibody-platform
```

Value:

Name of the main namespace used for services.

Steps to apply manifests for Project Management:

```
kubectl apply -f project-management/deployment.yaml
```

```
kubectl apply -f project-management/project-management-tasks.yaml
```

API Docs

Images required for this:

- 071253002612.dkr.ecr.eu-central-1.amazonaws.com/naturalantibody-api-docs-repository-public:latest

Change nodeSelector and tolerances to fit your setup.

We assume that Docs runs in the namespace naturalantibody-platform, but you can change it to fit your setup.

Environment variables

Only variables that you need to change to match your setup.

- TOKEN_SECRET

Example:

```
- name: TOKEN_SECRET
  valueFrom:
    secretKeyRef:
      name: token-secret
      key: password
```

Value:

A secret that contains value used for creating and unpacking authorization tokens.

- UI_URL

Example:

```
- name: UI_URL
  value: https://platform.naturalantibody.com
```

Value:

External URL for frontend.

- APP_URL

Example:

```
- name: APP_URL  
  value: https://api-docs.platform.naturalantibody.com
```

Value:

External URL for this service.

Other variables

- Image

Example:

```
image: <aws account id>.dkr.<url for ECR repository for api-docs>:v1.0.0
```

Value:

URL to Docs microservice image.

- namespace

Example:

```
namespace: naturalantibody-platform
```

Value:

Name of the main namespace used for services.

Steps to apply manifests for API docs:

```
kubectl apply -f api-docs/deployment.yaml
```

Docs

Images required for this:

- 071253002612.dkr.ecr.eu-central-1.amazonaws.com/naturalantibody-docs-repository-public:latest

Change nodeSelector and tolerances to fit your setup.

We assume that Docs runs in the namespace `naturalantibody-platform`, but you can change it to fit your setup.

Environment variables

Only the variables that you need to change to match your setup.

- TOKEN_SECRET

Example:

```
- name: TOKEN_SECRET
  valueFrom:
    secretKeyRef:
      name: token-secret
      key: password
```

Value:

A secret that contains value used for creating and unpacking authorization tokens.

- NEXT_PUBLIC_UI_URL

Example:

```
- name: NEXT_PUBLIC_UI_URL
  value: https://platform.naturalantibody.com
```

Value:

External URL for frontend.

- APP_URL

Example:

```
- name: APP_URL
  value: https://api-docs.platform.naturalantibody.com
```

Value:

External URL for this service.

Other variables

- image

Example:

```
image: <aws account id>.dkr.<url for ECR repository for docs>:v1.0.0
```

Value:

URL to Docs microservice image.

- namespace

Example:

```
namespace: naturalantibody-platform
```

Value:

Name of the main namespace used for services.

Steps to apply manifests for Docs:

```
kubectl apply -f docs/deployment.yaml
```

Creating the first user

First user has to be created via the API of the users container

Connecting to the users container:

```
kubectl port-forward service/users -n naturalantibody-platform 3000:80
```

Then open your browser and go to <http://localhost:3000/docs#>

1. Create an organization using the POST `/organization/` endpoint

The screenshot shows a REST client interface for a POST request to the `/organization/` endpoint. The request body is a JSON object: `{ "name": "TEST" }`. The response is a 200 status code with a description "Successful Response". The response body is a JSON object: `{ "id": "5eb7cf5a86d9755df3a6c593", "name": "string", "is_active": true }`.

POST `/organization/` Add

Parameters

No parameters

Request body *required* `application/json`

Edit Value | Schema

```
{
  "name": "TEST"
}
```

Execute

Responses

Code	Description	Links
200	Successful Response	No links

Media type: `application/json`

Controls Accept header.

Example Value | Schema

```
{
  "id": "5eb7cf5a86d9755df3a6c593",
  "name": "string",
  "is_active": true
}
```

Save `_id` from the response for further steps

2. Create a user using POST `/users/` endpoint

POST /users/ Add

Parameters

No parameters

Request body required

application/json

Edit Value | Schema

```
{
  "email": "user@example.com",
  "roles": [
    "ORGANIZATION_ADMIN"
  ],
  "party_id": "<ID_RESPONSE_FROM_ORGANIZATION>",
  "password": "*****",
  "user_details": {
    "position": "string",
    "full_name": "string",
    "organization_name": "string"
  },
  "force_password_change": false,
  "send_email": false,
  "otp_enabled": false,
  "otp_verified": false,
  "otp_recovery_codes": [],
  "otp_base32": "string",
  "otp_auth_uri": "string"
}
```

Execute

Responses

Code	Description	Links
200	Successful Response	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "id": "5eb7cf5a86d9755df3a6c593",
  "email": "user@example.com",
  "roles": [
    "USER"
  ],
  "party_id": "5eb7cf5a86d9755df3a6c593",
  "user_details": {
    "position": "string",
    "full_name": "string",
    "organization_name": "string"
  },
  "is_active": true,
  "force_password_change": true,
  "is_tot_accepted": true,
  "otp_enabled": true,
  "otp_verified": true,
  "is_registering": false
}
```

3. Log in to the frontend with the credentials that you have created

4. To add more users, use the Form that is available at

https://<your_application_domain>/user/users-management

Users Management

 MY PROFILE
  **USERS MANAGEMENT**

Manage members

Add member

Full name

Position

E-mail