

Production Mode

This section provides instructions for how to do a production installation of Eggplant DAI. This is the recommended installation method.

Before you start, make sure you've read the [Prerequisites](#) section.

Prepare Helm Configuration

You must use a configuration file to define values for the required settings in the Helm chart.

In a text editor, create a file with the following content, replacing each `<placeholder>` with the appropriate value. In these instructions, the sample file is named as `dai.yaml`, but you can choose another name.

NOTE

When you upgrade an existing installation, you need to generate this file. See the [Upgrade](#) section for full details.

In addition to the values listed here, there are further configuration options available for Eggplant DAI. See [Values](#) for full details. Further configuration options might be available for third-party sub-charts, e.g. RabbitMQ, Postgres and Minio. Refer to the upstream documentation for these charts to see what options are available.

NOTE

The file is in YAML format and its `.yaml` suffix follows the convention for YAML-formatted files.

```
global:
  adminPassword: '<password>'
  adminUsername: '<email>'
  license: '<license>'
postgresql:
  enabled: false
```

```
externalDatabase:
  host: '<database hostname>'
  user: '<database username>'
  password: '<database password>'
  port: <database port>
ingress:
  enabled: true
  hostnames:
    - '<ingress hostname>'
rabbitmq:
  password: '<rabbitmq password>'
  erlangCookie: '<rabbitmq cookie>'
  persistence:
    enabled: true
minio:
  persistence:
    enabled: true
keycloak:
  url: '<url of keycloak instance>'
  adminPassword: '<keycloak admin password>'
```

Placeholder	Value
<password>	Sets the password for the Eggplant DAI administrator.
<email>	The email address that is used for the username of the Eggplant DAI administrator.
<license>	Your DAI license key string, as supplied by Eggplant.
<database hostname> <database username> <database password> <database port>	Parameters required to access your PostgreSQL database.
<ingress hostname>	The ingress hostname for your Kubernetes DAI namespace. You must supply this value as appropriate for your Kubernetes cluster.

Placeholder	Value
<code><rabbitmq password></code>	Supply a password of your choosing for RabbitMQ to use.
<code><rabbitmq cookie></code>	Supply a 30-byte cookie, base-64 encoded, for RabbitMQ to use, e.g. to generate: <code>head -c30 /dev/urandom \ base64</code> .
<code><url of keycloak instance></code>	Sets the URL for the Eggplant identity and access management system
<code><keycloak admin password></code>	Sets the password for the System Administrator for the identity and access management system.

For a complete list of values and their defaults, see the [Values](#) section.

Set up Engine Autoscaling

We recommend, where possible, using [KEDA](#) for engine autoscaling. If you don't enable KEDA, then the default configuration instead provides two engine replicas. This number is configurable using the `ai_engine.replicaCount` parameter. See the [Values](#) section for full details.

1. Before installing the Eggplant DAI chart, [install KEDA V1](#).

NOTE

KEDA version 2 is not currently supported.

2. To enable autoscaling, add the following to your values file:

```
keda:
  enabled: true
```

Using Amazon S3

To use an Amazon S3 bucket instead of Minio for object storage, substitute the `minio` section in the values file with your AWS details. See the [Values](#) section for full details.

```
objectStorage:
  bucketName: my-example-bucket
  provider: aws
  aws:
    existingSecret:
      name: my-existing-secret
    region: eu-west-1
```

Install Eggplant DAI for Production Use

1. Make sure that you can access the PostgreSQL database. For example, use the following `psql` command line:

```
psql -h <database hostname> -U <database username>
```

NOTE

Make sure that the database is named the same as `<database username>`. Use a password that contains alphanumeric characters only: digits 0 through 9 and letters A through Z, uppercase and, or lowercase.

2. Install the DAI Helm chart using the prepared configuration file, like this:

```
helm install dai eggplant/dai --version 0.11.17 -f dai.yaml --namespace dai
```

The `eggplant/dai` chart is installed as a Helm release called `dai` (the first parameter) into the Kubernetes namespace, also called `dai` (the `--namespace` parameter), using the parameters supplied in the `dai.yaml` file. `dai` is used as an example in these instructions, but you can use any name you prefer.

3. To watch the cluster building, use the following command.

```
watch kubectl get pods
```

All the items will display as `Running` after the cluster is built.

After Eggplant DAI is installed, use a web browser to access the ingress hostname specified in the configuration file.