ELO Images

Docker

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Getting started

Prerequisites

It is recommended using docker-compose for running eck in docker.

- Docker 18.02+
- Docker compose 3.6+

Running ELO docker images on Windows

Windows Subsystem for Linux (WSL2) in combination with Docker Desktop is a good start for running ELO on Windows machines for testing and developing use.

- Get WSL2 on Windows 10
- Get Docker Desktop for Windows

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sidebarDepth: 3

Deploy a repository

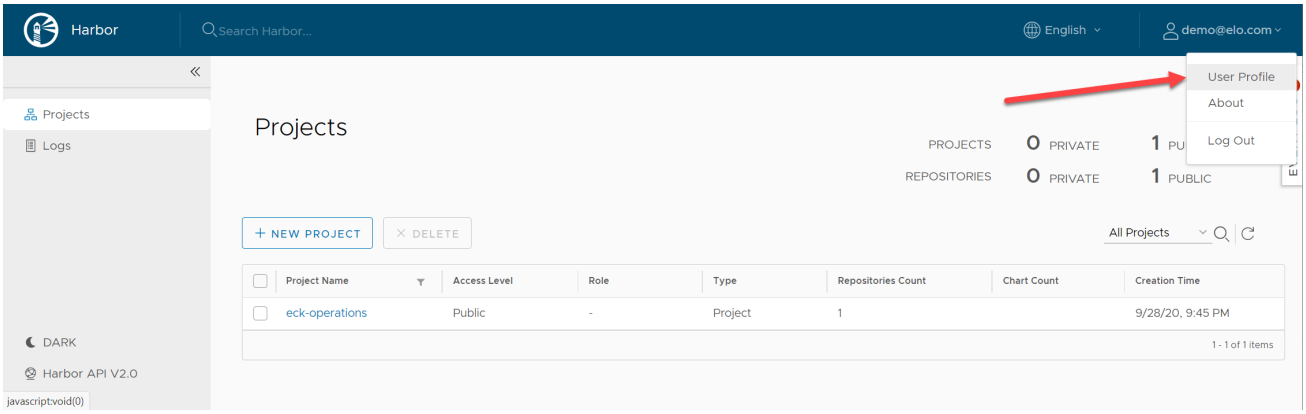
Login to registry.elo.com

```
$ docker login registry.elo.com -u <username> -p <cli-secret>
```

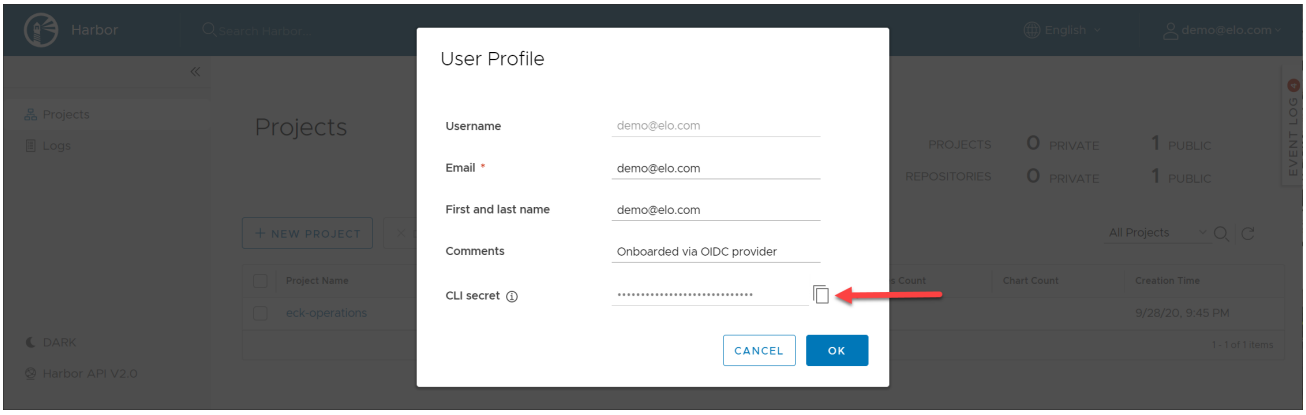
Retrieve your CLI secret

Open https://registry.elo.com in a web browser and login using OIDC provider.

The access token/ cli secret can be retrieved in the user profile.



Copy the CLI secret from the user profile.



Virtual memory settings on host

Elasticsearch uses a `mmapfs` directory for storing indices. By default many operating systems limit mmapcounts which will result in out of memory exceptions.

Every host that run elasticsearch services require an increased limit of at least `262144`.

The current limit can be checked using the following command:

```
$ sudo sysctl vm.max_map_count
```

You can increase the mmapcounts limit to `262144` with:

```
$ sudo sysctl vm.max_map_count=262144
```

Run Repository stack using docker-compose

The following docker compose file demonstrates how to run ECK images on docker.

```
version: "3.7"
services:
  server:
    image: registry.elo.com/eck-services-internal/server:v23-1.3
    container_name: server
    ports:
      - 9090:9090
    links:
      - ix-setup:ix-setup
      - search:search
      - tr2:tr2
    environment:
      IX_URL_BASE: http://server:9090/repository/ix
      IX_URL_PRIVATE: http://server:9090/repository/ix
      ELO_HOST: http://server:9090
      IX_APP_PATH: repository
      DATABASE_PASSWORD: CKZbP0SVMAPu
      KEYSTORE_PASSWORD: NLcad64E3F7xL2dC
      AUTH_TOMCAT_USERNAME: admin
      AUTH_TOMCAT_PASSWORD: HpHZ6Orc5RWO
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
    volumes:
      - data-ix:/opt/elo/data/ix
      - data-eloam:/opt/elo/data/eloam
      - repository-system:/opt/elo/archive/elosys
      - repository-basis:/opt/elo/archive/basis
```

```
      - certificates-ix:/opt/elo/config/certificates/ix/:ro
      - plugins:/opt/elo/prog/webapps/ix-plugins/public
      - logs:/opt/elo/logs
  ix-setup:
    image: registry.elo.com/eck-services-internal/ix-setup:v23-1.3
    container_name: ix-initialize
    environment:
      ELO_TEXTREADER_URL: http://tr2:8100
      IX_URL_BASE: http://server:9090/repository/ix
      IX_URL_PRIVATE: http://server:9090/repository/ix
      ELO_HOST: http://server:9090
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
      AUTH_ADMIN_PASSWORD: QRLTS38FjesG
      DATABASE_PASSWORD: CKZbP0SVMAPu
      DATABASE_USERNAME: elodb
      KEYSTORE_PASSWORD: NLcad64E3F7xL2dC
      ELO_LIC: |-
        createdate=2021-02-25
        customer1=ELO Digital Office GmbH - NOT FOR RESALE
        ...
        hash1=...fb

        ---
        majjgodbh...
    volumes:
      - data-eloam:/opt/elo/data/eloam
      - data-ix:/opt/elo/data/ix
      - repository-system:/opt/elo/archive/elosys
      - repository-basis:/opt/elo/archive/basis
      - certificates-ix:/opt/elo/config/certificates/ix
      - certificates-search:/opt/elo/config/certificates/search
      - logs:/opt/elo/logs
  ix-import:
    image: registry.elo.com/eck-services-internal/ix-import:v23-1.3
    container_name: ix-import
    environment:
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
      AUTH_ADMIN_PASSWORD: QRLTS38FjesG
  as:
    image: registry.elo.com/eck-services-internal/as:v23-1.2
    container_name: as
    environment:
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
    ports:
      - 9060:9090
      - 8778:8778
```

```
      - 9779:9779
    links:
      - server:ix
  search:
    image: registry.elo.com/eck-services-internal/search:v23-1.0
    container_name: search
    ports:
      - 9204:9204
      - 9200:9200
    environment:
      bootstrap.memory_lock: "true"
      AUTH_SERVICE_USERNAME: ELO Service
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
      AUTH_SERVICE_PASSWORD_BCRYPT: $$2a$$04$$Dj/qj0ceUNr8pAEj92SBoO9iA5qmJStYFlaPCnwv8/Msq
      KEYSTORE_PASSWORD: NLcad64E3F7xL2dC
    volumes:
      - data-search:/opt/elo/data/index
      - certificates-search:/opt/elo/config/certificates/search
      - logs:/opt/elo/logs
  flows:
    image: registry.elo.com/eck-services-internal/flows:v23-1.2
    container_name: flows
    environment:
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
      AUTH_ADMIN_PASSWORD: QRLTS38FjesG
    ports:
      - 9010:9090
    links:
      - server:ix
      - flows-worker:flows-worker
    volumes:
      - data-flows:/opt/elo/data/flows/
      - logs:/opt/elo/logs
  flows-worker:
    image: registry.elo.com/eck-services-internal/flows-worker:v23-1.2
    container_name: flows-worker
    environment:
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
      AUTH_KARAF_PASSWORD: karaf
      FLOWS_WORKER_HOST: flows-worker
    ports:
      - 8101:8101
      - 1099:1099
      - 44444:44444
      - 8181:8181
      - 9999:9999
```

```
      - 9000:9000
    links:
      - server:ix
    volumes:
      - logs:/opt/elo/logs
  tr2:
    image: registry.elo.com/eck-services-internal/tr2:v23-1.2
    container_name: tr2
    environment:
      AUTH_TOMCAT_USERNAME: admin
      AUTH_TOMCAT_PASSWORD: HpHZ6Orc5RWO
    ports:
      - 8100:8100
  postgres:
    image: registry.elo.com/eck-services-internal/postgresql:12.5.0
    container_name: postgres
    environment:
      POSTGRES_USERNAME: elodb
      POSTGRES_PASSWORD: CKZbP0SVMAPu
    volumes:
      - data-db:/bitnami/postgresql
    stdin_open: true
    tty: true
volumes:
  repository-system:
  repository-basis:
  data-eloam:
  data-ix:
  data-search:
  data-db:
  plugins:
  certificates-ix:
  certificates-search:
  data-flows:
  logs:
```

`ELO_LIC`: Make sure to supply a license.
For ELO 23 images use an ELO 23 license.
Make sure to use `|-` literal yaml style with strip chomping indicator to pass your multiline license correctly by avoiding final line break and any trailing empty lines.

From version 21.2 onwards you can set a private rsa key for `ELO_LIC` instead of a license key. ELO will download the rsa encrypted license from a license server and will decrypt it with the private key.

Additional services

rest service

You can add the block below services directly to your complete docker-compose file or run it as an addition to the other ELO services

```
version: "3.7"
services:
  rest:
    image: registry.elo.com/eck-services-internal/rest:v23-1.2
    container_name: rest
    environment:
      AUTH_TOMCAT_USERNAME: admin
      AUTH_TOMCAT_PASSWORD: HpHZ6Orc5RWO
      REST_CORS_ORIGINS: "http://localhost:9020"
    ports:
      - 9020:9090
    links:
      - ix:ix
```

> The images are also available for ELO 20 (v20-0.3) and ELO 21.0 (v21-0.0 / v21-1.1 / v21-2.3 / v21-3.0 / v21-4.0)

Upgrading former version to current version

search

From search version v21-2.x onwards `Elasticsearch version 7.15.2` is used. Search versions `v20-0.x` contains `Elasticsearch version 5.6.3`.

Upgrading from former versions to search version v21-2.x and onwards:

> data directories of `v20-0.x` images are *not* compatible with `v23-0.x` images. re-index is required. There are two options if you want upgrade to search `v23-0.x`:
>
> Either you delete all files and directories in `/opt/elo/data/index`. Then all old indexed data will be lost.
>
> ```
> rm -rf /opt/elo/data/index/*
> ```
>
> or
>
> Use a new volume for search `v23-0`. All old indexed data remains with the old volume.

Example:

```
...
  search:
    image: registry.elo.com/eck-services-internal/search:v23-1.0
    container_name: search
    ports:
      - 9204:9204
      - 9200:9200
    environment:
      bootstrap.memory_lock: "true"
      AUTH_SERVICE_USERNAME: ELO Service
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
      AUTH_SERVICE_PASSWORD_BCRYPT: $$2a$$04$$Dj/qj0ceUNr8pAEj92SBoO9iA5qmJStYFlaPCnv
      KEYSTORE_PASSWORD: NLcad64E3F7xL2dC
    volumes:
      - data-search-new:/opt/elo/data/index
      - certificates-search:/opt/elo/config/certificates/search
      - logs:/opt/elo/logs
...
volumes:
  ...
  data-ix:
  data-search-new:
  data-db:
  plugins:
  certificates-ix:
  certificates-search:
  ...
```

After the new volume `data-search-new` is in use you have to trigger the indexer to create the data index for Elasticsearch major version 7. You can find the indexer under

```
https://<external url>/<repository>/manager/esconfig/esConf.jsp?route=esConf
```

Login to Web Client or AdminConsole

Native Linux

When running Docker natively on Linux, you can access host services using the IP address of the `docker0` interface. From inside the container, this will be your default route.

For example the address of docker0 can be found using:

```
ip address show dev docker0 | grep "inet\b" | awk '{print $2}' | cut -d/ -f1
```

The default ip address of the docker0 interface and the default `bridge` on Linux-based system is `172.17.0.1`.

Therefore the WebClient and the AdminConsole can be accessed on Linux-based system:

```
http://172.17.0.1:9090/${REPO_NAME}/plugin/de.elo.ix.plugin.proxy/web/

http://172.17.0.1:9090/${REPO_NAME}/plugin/de.elo.ix.plugin.proxy/administration/
```

Windows and Mac

On Windows and Mac the special DNS name `host.docker.internal` which will resolve to the internal IP address used by the host, can be used to connect to the WebClient and AdminConsole.

Therefore the WebClient and the AdminConsole can be accessed on Windows-based and MacOS-based systems:

```
http://host.docker.internal:9090/${REPO_NAME}/plugin/de.elo.ix.plugin.proxy/web/

http://host.docker.internal:9090/${REPO_NAME}/plugin/de.elo.ix.plugin.proxy/administration/
```

Core concepts

Volumes and persistence

Required volumes

Repository data

The most important volumes are the ones that keep repository data. All documents within ELO are stored here.

`repository-system`, `repository-basis`

Services Data

`data-eloam`, `data-ix`, `data-search`, `data-db`

> For tr2 `data-ocr` and `data-tr` are not required anymore

Certificates

`certificates-ix`, `certificates-search`

Volumes for Docker Compose

Logs

Volume to store log files for Docker Compose deployment

`logs`

Permissions

ELO Cloud on Kubernetes images don't run with ROOT access. Therefore if mounting host paths to the containers rights and ownerships must be changed on the docker-host.

Service User in containers: 1001

> Please note that it's best practice to use arbitrary user ids within docker. This enforces security and prevents the users from accessing system ressources in case of a break out

If the ix volume `/opt/elo/data/ix` should be mounted on hostpath `/mnt/share/data-ix` the hostpath must be `chown` to userid 1001. e.g. `chown -R 1001:1001 /mnt/share/data-ix`

```yaml
# Start using docker-compose example for host mounted volumes
version: "3.7"
services:
  ix:
    # ...
    volumes:
      - /mnt/share/data-ix:/opt/elo/data/ix
      - /mnt/share/data-eloam:/opt/elo/data/eloam
      - /mnt/share/repository-system:/opt/elo/archive/elosys
      - /mnt/share/repository-basis:/opt/elo/archive/basis
      - /mnt/share/certificates-ix:/opt/elo/config/certificates/ix/:ro
```

```
# creating volumes and changing permissions
$ MNT_PATH=/mnt/share

$ mkdir -p \
  $MNT_PATH/data-ix \
  $MNT_PATH/data-eloam \
  $MNT_PATH/repository-system \
  $MNT_PATH/repository-basis \
  $MNT_PATH/certificates-ix

$ chown -R 1001:1001 \
  $MNT_PATH/data-ix \
  $MNT_PATH/data-eloam \
  $MNT_PATH/repository-system \
  $MNT_PATH/repository-basis \
  $MNT_PATH/certificates-ix
```

Logging

Most ECK service containers that are based on Java applications feature three appender modes for logging.

- `FILE` This appender will forward logs to a local log file. (Default)
- `LOKI` This appender will forward logs to Loki (by Grafana Labs) instance.
- `NONE` This appender will only foward logs to `stdout`.

Log appenders can be specified by the environemt variable `LOG_APPENDER`. As a default the file appender is used. Logs are always forwarded to `stdout`.

`FILE` Log to local files

By default services log to files that are located in /opt/elo/logs. It is recommended mounting this folder as a volume if logging to local files is used.

Defining `LOG_APPENDER: FILE` is optional since its the default for all images.

```
version: "3.3"
services:
  ix:
    image: registry.elo.com/eck-services/ix:latest
    environment:
      LOG_APPENDER: FILE
```

Applications feature additional configuration options for log rotation and retention. Refer to the image documentation of the service for more information.

```
# Keep tomcat logs for the last {i} days
TOMCAT_LOG_MAX_HISTORY_DAYS: 7
# Max. tomcat log file size
TOMCAT_LOG_MAX_FILE_SIZE: 20MB
```

```
# Define Index Server log level
ENV IX_LOG_LEVEL: info
# Keep Index Server logs for the last {i} days
ENV IX_LOG_MAX_HISTORY_DAYS: 14
# Max. Index Server log file size
ENV IX_LOG_MAX_FILE_SIZE: 500MB
```

`LOKI` Log to Loki (by Grafana Labs)

We consider Loki one of the best options for implementing a centralized logging stack. Loki features a nice user interface for browsing and retrieving logs build into Grafana. In addition Loki is easy to maintain and resource friendly.

Most of our services allow forwarding logs directly to a Loki endpoint using dedicated Loki appenders.

```
version: "3.3"
services:
  ix:
    image: registry.elo.com/eck-services/ix:latest
    environment:
      LOKI_HTTP_URL: "http://loki:3100/loki/api/v1/push"
      LOG_APPENDER: LOKI
```

The following options can be used in order to customize Loki.

```
# Required. Loki endpoint to be used for sending batches
LOKI_HTTP_URL: "http://loki:3100/loki/api/v1/push"
# Max number of events to put into a single batch before sending it to Loki
LOKI_BATCH_MAX_ITEMS: 1000
# Max number of bytes a single batch (as counted by Loki) can contain.
LOKI_BATCH_MAX_BYTES: 4194304
# Max time in milliseconds to wait before sending a batch to Loki, even if that batch isn't t
LOKI_BATCH_TIMEOUT: 60000
#Max number of bytes to keep in the send queue. When the queue is full, incoming log events
LOKI_SEND_QUEUE_MAX_BYTES: 41943040
```

If the service does not feature forwarding logs to LOKI mode `NONE` is used.

Limitations:

- Loki appenders are only supported by Java applications.
- Tomcat access logs are forwarded to STDOUT only if Loki appender is set.

`NONE` Log to console (stdout)

If running services within Kubernetes a recommended way is setting up a centralized logging environment. This could either be Loki using the dedicated `LOKI` appender or centralized solutions for forwarding logs based on the containers stdout. (Like fluentd, ...)

The appender mode `NONE` will be used in order to only forward logs to stdout.

Docker Images

Overview of images

ELO cloud docker images are based on `Debian Slim`.

Image	Included components	Description
eck-services-internal/as	ELO Automation Services	This image includes ELO automation services. ELO AS provides a simple to use interface that allows building automated tasks in ELO.
eck-services-internal/flows	ELO Flows	This image includes ELO flows manager and service.
eck-services-internal/flows-worker	ELO Flows Worker	This image includes ELO flows worker. Based on karaf.
eck-services-internal/ix	ELO Index Server	This image includes the ELO Index Server. It can be used as a frontend-service for all incoming connections, api calls and ELO web services.
eck-services-internal/ix-setup	ELO Cloud Index Server Setup	This image contains the ELO setup routine for ELO Index Server.
eck-services-internal/ix-import	ELO Cloud Index Server Import	This image contains the import routine for ELO Index Server. Imports thesaurus and dropzone.
eck-services-internal/search	ELO iSearch	This image includes the iSearch. It provides different search functionalities like the full text search.
eck-services-internal/sever	ELO Server	IX and UI migrates into server. Use this image for 21-3.x and onwards.
eck-services-internal/tr2	ELO Textreader2	CV, OCR and OCR-setup mirgrates into TR2. Use this image for 21-4.x and onwards.
eck-services-internal/ui	ELO AdminConsole ELO Web Client ELO WF	This image includes elo user interface components that interact with backend services. This includes *ELO Web Client*, *ELO WF* and the *ELO Administration Console*.

eck-services-internal/as

This image includes ELO automation services. ELO AS provides a simple to use interface that allows building automated tasks in ELO.

```
# Start using docker-compose
version: "3.7"
services:
  as:
    image: registry.elo.com/eck-services-internal/as:v23-1.2
    container_name: as
    environment:
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
    links:
      - ix:ix
```

```
# Start using docker run
docker run --name as -d \
  -e "AUTH_SERVICE_PASSWORD=moxIZAaDQGjw" \
  registry.elo.com/eck-services-internal/as:v23-1.2
```

Clustering

This component should not be clustered.

Accessing AS service

```
my-service.company.cloud/repository/plugin/de.elo.ix.plugin.proxy/as/
```

Environment variable for ix connection

REPO_NAME

Optional Name for the ELO Repository

Defaults to: repository

Example: repository

ELO_DISPLAY_NAME

Optional Additional option to name database and archive different. Doing this REPO_NAME is the database and ELO_DISPLAY_NAME is the displayed archive name.

Defaults to: $REPO_NAME

> Only usable from version 21.4 and onwards

IX_URL

Optional URL of the Index Server api-endpoint the preview conversion service should connect to.

Defaults to: http://ix:9090/{REPO_NAME}/ix

Example: http://ix:9090/repository/ix

REPO_LANGUAGE

Language setting for the repository. This is used in order to set the default locale for the service user account.

Defaults to: en

Example: en

Environment variables for as configuration

AUTH_SERVICE_USERNAME

Optional Name of the ELO service user account that the preview conversion service should authenticate with.

Defaults to: ELO Service
Example: ELO Service

AUTH_SERVICE_PASSWORD

Mandatory Password for the service user account that is used for authentication.

Example: moxIZAaDQGjw

AS_ROOT_GUID

Optional The ELO AS configuration is stored in the ELO Repository.

Defaults to: (F6C173D7-3F71-4559-91E5-4886139B12CF)

Environment variables for tomcat configuration

AUTH_TOMCAT_USERNAME

Optional Name of the tomcat admin

Example: admin

> If you don't set, no tomcat admin user exists

AUTH_TOMCAT_PASSWORD

Example: HpHZ6Orc5RWO

> If you don't set, no tomcat admin user exists

Environment variables for log configuration

AS_LOG_LEVEL

Optional The ELO Automation Services loglevel for log outputs.

Defaults to: info

AS_LOG_MAX_HISTORY_DAYS

Defines the number of days the log is stored

Defaults to: 14

AS_LOG_MAX_FILE_SIZE

Defines the maximal logfile size

Defaults to: 500MB

> More infos to LOKI Logging can be found here

Persistence

/opt/elo/temp/as /opt/elo/logs

Directory for temporary files.

Supported versions

- `registry.elo.com/eck-services-internal/as:v23-1.2`

eck-services-internal/tr2

This images contains the Textreader 2 and OCR. It is used for analyzing documents.

More information to the Textreader 2 itself can be found here.

```
# Start using docker-compose
version: "3.7"
services:
  tr2:
    image: registry.elo.com/eck-services-internal/tr2:v23-1.2
    environment:
      AUTH_ADMIN_PASSWORD: QRLTS38FjesG
      AUTH_ADMIN_USER: admin
```

Clustering

More than one instance of the Textreader 2 may be launched. But this requires a load-balancer and sticky sessions.

Environment variables for TR2 configuration

TR_INSTANCE_NAME

Defines the instancename. This is used in temporary directories.

Default: instance1

TR_AUTH_KEYS

Defines the auth keys to be used. If a * is specified, then no authentication will be made. Otherwise consult the Textreader 2 documentation for detailed information on how to configure this.

TR_MAX_WORKERS

Specifies the amount of workers available for processing incoming requests

Default: 10

TR_MIN_FREE_DISKSPACE_MB

Specifies the amount of free diskspace which has to be kept free.

Default: 100

TR_MAX_FILE_PROCESSING_SECONDS

Specifies the duration a file may take until its processing is cancelled

Default: 600

TR_WAIT_FOR_RESULT_SECONDS

Specifies the time to wait until the initial request ist being returned, containing a handle to be able to poll for the results

Default: 10

TR_OCR_MIN_FILE_SIZE_KB

Specifies the size threshold which has to be reached to process files. Smaller files may not contain useful information.

Default: 5

TR_OCR_WORKER_COUNT

Specifies the amount of ocr workers.

Default: 3

TR_OCR_PAGE_TIMEOUT_SECONDS

Specifies the maximum time per for the ocr for processing a single page

Default: 600

TR_OCR_FILE_TIMEOUT_SECONDS

Specifies the maximum time per for the ocr for processing an entire file

Default: 600

Environment variables for Authentication configuration

The Textreader 2 has a status page (http://:port/tr/status), which may be accessed using the following credentials

AUTH_ADMIN_USERNAME

Optional Name of the admin user

Default: admin

AUTH_ADMIN_PASSWORD

Example: HpHZ6Orc5RWO

Default: elo

Environment variables for log configuration

TR_LOG_LEVEL

Optional The ELO TR2 loglevel for log outputs.

Defaults to: info

TR_LOG_MAX_HISTORY_DAYS

Defines the number of days the log is stored

Defaults to: 14

TR_LOG_MAX_FILE_SIZE

Defines the maximum logfile size

Defaults to: 500MB

TR_REPORT_LOG_LEVEL

Optional The ELO TR2 loglevel for report log outputs.

Defaults to: info

TR_REPORT_LOG_MAX_HISTORY_DAYS

Defines the number of days the report log is stored

Defaults to: 14

TR_REPORT_LOG_MAX_FILE_SIZE

Defines the maximum report logfile size

Defaults to: 500MB

TR_OCR_LOG_LEVEL

Optional The ELO TR2 loglevel for ocr log outputs.

Defaults to: info

TR_OCR_LOG_MAX_HISTORY_DAYS

Defines the number of days the ocr log is stored

Defaults to: 14

TR_OCR_LOG_MAX_FILE_SIZE

Defines the maximum ocr logfile size

Defaults to: 500MB

> More infos to LOKI Logging can be found here

Supported versions

- `registry.elo.com/eck-services-internal/tr2:v23-1.2`

eck-services-internal/flows

This image includes ELO flows manager and service.

> Only for ELO 21 image versions.

```yaml
# Start using docker-compose
version: "3.7"
services:
  flows:
    image: registry.elo.com/eck-services-internal/flows:v23-1.2
    container_name: flows
    environment:
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
      AUTH_ADMIN_PASSWORD: QRLTS38FjesG
    ports:
      - 9010:9090
    links:
      - ix:ix
      - flows-worker:flows-worker
    volumes:
      - data-flows:/opt/elo/data/flows/
```

```
# Start using docker run
docker run --name flows -d \
  -e "AUTH_SERVICE_PASSWORD=moxIZAaDQGjw" \
  -e "AUTH_ADMIN_PASSWORD=QRLTS38FjesG" \
  -v data-ix:/opt/elo/data/flows \
  registry.elo.com/eck-services-internal/flows:v23-1.2
```

Clustering

This component should not be clustered

Accessing flows manager

```
my-service.company.cloud/repository/plugin/de.elo.ix.plugin.proxy/flows/
```

Environment variables for ix connection

REPO_NAME

Optional Name for the ELO Repository

Defaults to: repository

Example: repository

ELO_DISPLAY_NAME

Optional Additional option to name database and archive different. Doing this REPO_NAME is the database and ELO_DISPLAY_NAME is the displayed archive name.

Defaults to: $REPO_NAME

> Only usable from version 21.4 and onwards

IX_URL

Optional URL of the Index Server api-endpoint the preview conversion service should connect to.

Defaults to: http://ix:9090/repository/ix

Environment variables for flows configuration

AUTH_ADMIN_USERNAME

Optional Name of the admin user account that flows should authenticate with.

Example: Administrator

AUTH_ADMIN_PASSWORD

Mandatory Password for the admin user account that is used for authentication.

Example: QRLTS38FjesG

AUTH_SERVICE_USERNAME

Optional Name of the ELO service user account that the preview conversion service should authenticate with.

Example: ELO Service

AUTH_SERVICE_PASSWORD

Mandatory Password for the service user account that is used for authentication.

Example: moxIZAaDQGjw

Environment variables for tomcat configuration

AUTH_TOMCAT_USERNAME

Optional Name of the tomcat admin

Example: admin

> If you don't set, no tomcat admin user exists

AUTH_TOMCAT_PASSWORD

Example: HpHZ6Orc5RWO

> If you don't set, no tomcat admin user exists

Environment variables for flows configuration

FLOWS_REPO

Optional Var for the Flows Repository

Defaults to: configservice

Example: configservice

FLOWS_MANAGER_URL

Optional Flows manager URL

Defaults to: http://flows:9090/flows*

Example: http://flows:9090/flows

FLOWS_REGISTRY_URL

Optional Flows registry URL

Defaults to: http://flows:9090/registry/*

Example: http://flows:9090/registry/

> The registry URL will be combined with the default path surfix /api/v1/service

FLOWS_DIR

Optional Flows core dir

Defaults to: /opt/elo/data/flows/

CONFIG_SERVICE_URL

Optional Flows IX ConfigService URL

Defaults to: http://ix:9090/repository/plugin/de.elo.ix.plugin.rest/de.elo.ix.config/configs

If you plan to change the repository name, make sure to change it accordingly (replace `repository` within the URL).

Environment variables for log configuration

FLOWS_MANAGER_LOG_LEVEL

Optional The ELO Flows Manager loglevel for log outputs.

Defaults to: info

FLOWS_MANAGER_LOG_MAX_HISTORY_DAYS

Defines the number of days the log is stored

Defaults to: 14

FLOWS_MANAGER_LOG_MAX_FILE_SIZE

Defines the maximal logfile size

Defaults to: 500MB

FLOWS_REGISTRY_LOG_LEVEL

Optional The ELO Flows Registry loglevel for log outputs.

Defaults to: info

FLOWS_REGISTRY_LOG_MAX_HISTORY_DAYS

Defines the number of days the log is stored

Defaults to: 14

FLOWS_REGISTRY_LOG_MAX_FILE_SIZE

Defines the maximal logfile size

Defaults to: 500MB

> More infos to LOKI Logging can be found here

Service ports

Karaf is exposed on ports `8101, 1099, 44444, 8181, 9999`.

Persistence

/opt/elo/data/flows

Supported versions

- `registry.elo.com/eck-services-internal/flows:v23-1.2`

eck-services-internal/flows-worker

This image includes ELO flows worker. Based on Karaf.

> Only for ELO 21 image versions.

```yaml
# Start using docker-compose
version: "3.7"
services:
  flows-worker:
    image: registry.elo.com/eck-services-internal/flows-worker:v23-1.2
    container_name: flows-worker
    environment:
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
    ports:
      - 8101:8101
      - 1099:1099
      - 44444:44444
      - 8181:8181
      - 9999:9999
      - 9000:9000
    links:
      - ix:ix
    volumes:
      - data-flows:/opt/elo/data/flows/
```

```
# Start using docker run
docker run --name flows-worker -d \
  -e "AUTH_SERVICE_PASSWORD=moxIZAaDQGjw" \
  -v data-ix:/opt/elo/data/flows \
  registry.elo.com/eck-services-internal/flows-worker:v23-1.2
```

Clustering

This component should not be clustered

Environment variables for ix connection

REPO_NAME

Optional Name for the ELO Repository

Defaults to: repository

Example: repository

ELO_DISPLAY_NAME

Optional Additional option to name database and archive different. Doing this REPO_NAME is the database and ELO_DISPLAY_NAME is the displayed archive name.

Defaults to: $REPO_NAME

> Only usable from version 21.4 and onwards

IX_URL

Optional URL of the Index Server api-endpoint the preview conversion service should connect to.

Defaults to: http://ix:9090/{REPO_NAME}/ix

Example: http://ix:9090/repository/ix

Environment variables for flows worker configuration

AUTH_SERVICE_USERNAME

Optional Name of the ELO service user account that the preview conversion service should authenticate with.

Defaults to: ELO Service

Example: ELO Service

AUTH_SERVICE_PASSWORD

Mandatory Password for the service user account that is used for authentication.

Example: moxIZAaDQGjw

Environment variables for karaf configuration

AUTH_KARAF_USERNAME

Optional Name of the karaf user account that the ssh should authenticate with.

Defaults to: admin

AUTH_KARAF_PASSWORD

Optional Password for the karaf user account that is used for authentication.

Example: poxIZBaDQ9jw

> if `AUTH_KARAF_PASSWORD` is not set, ssh for karaf is disabled

Environment variables for tomcat configuration

AUTH_TOMCAT_USERNAME

Optional Name of the tomcat admin

Example: admin

> If you don't set, no tomcat admin user exists

AUTH_TOMCAT_PASSWORD

Example: HpHZ6Orc5RWO

> If you don't set, no tomcat admin user exists

Environment variables for flows worker configuration

FLOWS_WORKER_HOST

Optional Where to find the flows worker

Defaults to: localhost

Example: worker-flows

FLOWS_WORKER_REST_PORT

Optional REST port of the flows worker

Defaults to: 9000

Example: 9000

`FLOWS_REGISTRY_URL`

Optional Flows registry URL

Defaults to: http://flows:9090/registry/

Example: http://flows:9090/registry/

> The registry URL will be combined with the default path surfix /api/v1/service

Environment variables for log configuration

`KARAF_LOG_LEVEL`

Optional The ELO Flows Worker loglevel for log outputs.

Defaults to: info

`KARAF_LOG_MAX_HISTORY_DAYS`

Defines the number of days the log is stored

Defaults to: 14

`KARAF_LOG_MAX_FILE_SIZE`

Defines the maximal logfile size

Defaults to: 500MB

> More infos to LOKI Logging can be found here

Environment variables for flows bundle install

`FLOWS_BUNDLE_INSTALL_ENABLED`

Defines whether the flows worker should install components from the archive

Defaults to: true

FLOWS_BUNDLE_INSTALL_DELAY_SECONDS

Defines the delay in seconds after which the components are synchronised after the flows worker starts.

Defaults to: 5

FLOWS_BUNDLE_INSTALL_INTERVAL_SECONDS

Defines the interval in seconds in which the synchronisation between installed components and components from the archive takes place.

Defaults to: 300

Service ports

Karaf is exposed on ports `8101, 1099, 44444, 8181, 9999`.

Persistence

/opt/elo/data/flows

Supported versions

- `registry.elo.com/eck-services-internal/flows-worker:v23-1.2`

eck-services-internal/ix

This image includes the ELO Index Server. It can be used as a frontend-service for all incoming connections, api calls and ELO web services.

```yaml
# Start using docker-compose
version: "3.7"
services:
  ix:
    image: registry.elo.com/eck-services-internal/ix:v23-1.3
    container_name: ix
    ports:
      - 9090:9090
    links:
      - postgres:postgres
    environment:
      DATABASE_PASSWORD: CKZbP0SVMAPu
      KEYSTORE_PASSWORD: NLcad64E3F7xL2dC
    volumes:
      - data-ix:/opt/elo/data/ix
      - data-eloam:/opt/elo/data/eloam
      - repository-system:/opt/elo/archive/elosys
      - repository-basis:/opt/elo/archive/basis
      - plugins:/opt/elo/prog/webapps/ix-plugins/public
      - certificates-ix:/opt/elo/config/certificates/ix/:ro
```

```
# Start using docker run
docker run --name ix -d \
  -e "DATABASE_PASSWORD=xhsjdK923kLqw" \
  -e "KEYSTORE_PASSWORD=NLcad64E3F7xL2dC" \
  -v data-ix:/opt/elo/data/ix \
  -v data-eloam:/opt/elo/data/eloam \
  -v repository-system:/opt/elo/archive/elosys \
  -v repository-basis:/opt/elo/archive/basis \
  -v plugins:/opt/elo/prog/webapps/ix-plugins/public \
  -v certificates-ix:/opt/elo/config/certificates/ix/:ro \
  -p 9090:9090 \
  registry.elo.com/eck-services-internal/ix:v23-1.3
```

Clustering

Work in progress

Environment variables for ix configuration

IX_ID

Optional Id of the Index Server instance. This allows directing operations to a specific index server instance.

Example: base

If running kubernetes, should be the name of the pod including its ordinal index.

Defaults to: ELO-base

Example: repository-ix-0

ELO_DISPLAY_NAME

Optional Additional option to name database and archive different. Doing this REPO_NAME is the database and ELO_DISPLAY_NAME is the displayed archive name.

Defaults to: $REPO_NAME

> Only usable from version 21.4 and onwards

IX_APP_PATH

Path the Index Server can be accessed in this container. This setting changes the context path value of the web application.

If using `ROOT` the Index Server can be accessed using `ix:9090/ix`. This can break some functions. If using `archivename` the resulting url will be `ix:9090/archivename/ix`.

Defaults to: {REPO_NAME}

example: archivename

> The ELO Cloud on Kubernetes Operator maps all archives for each tenant on the same url in order to reduce naming conflicts.
>
> If one tenant `customer1` has two repositories `hr` and `emails`, Index Servers of the repositories can be accessed using the urls `https://customer1.mycompany.local/hr` and `https://customer1.mycompany.local/emails`.

> ELO on premise installations usually use `ix-` as a prefix. e.g. `ix-archivename`. Thanks to the proxy that masks other ELO services, the IX is the only component to be publicly accessible.

`ELO_HOST`

Used by the initialization procedure.

Defaults to: http://ix:9090

Example: http://ix:9090

`REPO_NAME`

Optional Name for the ELO Repository

Defaults to: repository

Example: repository

> Only for ELO 20 image versions. For ELO 21 the default is `Solutions`

`IX_URL_PRIVATE`

Optional Private URL for ELO IX

Defaults to: http://ix:9090/{REPO_NAME}/ix

> Only for ELO 20 image versions. For ELO 21 this feature is WIP

`REPO_LANGUAGE`

Language setting for the repository. This is used in order to set the default locale for the service user account.

Defaults to: en
Example: en

`IX_SCRIPTS_AND_EXTERNAL_PLUGINS_DISABLED`

Optional Disable the upload of scripts and external plugins

Defaults to: false

Environment variables for tomcat configuration

AUTH_TOMCAT_USERNAME

Optional Name of the tomcat admin

Example: admin

> If you don't set, no tomcat admin user exists

AUTH_TOMCAT_PASSWORD

Example: HpHZ6Orc5RWO

> If you don't set, no tomcat admin user exists

Environment variables for Tomcat RemoteIpValve configuration

RemoteIpValve is being used when running behind a Reverse Proxy. It allows the Tomcat to detect whether it runs behind a Reverse Proxy by inspecting the Request Header passed.

More Details can be found here.

ELO_TOMCAT_REMOTEIPVALVE_ENABLED

Example: `true`

Defaults to `true`

Control whether the RemoteIpValve is enabled or not

ELO_TOMCAT_REMOTE_IP_HEADER

Example: `x-forwarded-for`

Defaults to `x-forwarded-for`

Name of the Http Header read by this valve that holds the list of traversed IP addresses starting from the requesting client

ELO_TOMCAT_INTERNAL_PROXIES

Example: `192\.168\.\d{1,3}\.\d{1,3}`

Defaults to `10\.\d{1,3}\.\d{1,3}\.\d{1,3}|192\.168\.\d{1,3}\.\d{1,3}| 169\.254\.\d{1,3}\.\d{1,3}|127\.\d{1,3}\.\d{1,3}\.\d{1,3}| 172\.1[6-9]{1}\.\d{1,3}\.\d{1,3}|172\.2[0-9]{1}\.\d{1,3}\.\d{1,3}| 172\.3[0-1]{1}\.\d{1,3}\.\d{1,3}| 0:0:0:0:0:0:0:1|::1`

By default, 10/8, 192.168/16, 169.254/16, 127/8, 172.16/12, and ::1 are allowed.

Regular expression that matches the IP addresses of internal proxies. If they appear in the remoteIpHeader value, they will be trusted and will not appear in the proxiesHeader value

ELO_TOMCAT_PROXIES_HEADER

Example: `x-forwarded-by`

Defaults to `x-forwarded-by`

Name of the http header created by this valve to hold the list of proxies that have been processed in the incoming remoteIpHeader

ELO_TOMCAT_PROTOCOL_HEADER

Example: `x-forwarded-proto`

Defaults to `x-forwarded-proto`

Name of the http header read by this valve that holds the flag that this request was forwarded from

ELO_TOMCAT_PROTOCOL_HEADER_HTTPS_VALUE

Example: `https`

Defaults to `https`

Value of the `ELO_TOMCAT_PROTOCOL_HEADER` to indicate that it is an Https request

Environment variables for log configuration

IX_LOG_LEVEL

Optional The ELO IX loglevel for log outputs.

Defaults to: info

IX_LOG_MAX_HISTORY_DAYS

Defines the number of days the log is stored

Defaults to: 14

IX_LOG_MAX_FILE_SIZE

Defines the maximal logfile size

Defaults to: 500MB

> More infos to LOKI Logging can be found here

Environment variables for file manager configuration

`IX_USE_FILE_MANAGER_CLOUD`

Optional Determines if cloud persistence for postbox files is required or not. In case of cloud deployment set to true.

Defaults to: false

Example: true

`IX_MAX_CONFIG_FILE_LENGTH_MB`

Optional Determines maximum config file length in mb

Defaults to: 1

Example: 100

> Only usable from version 21.4 and onwards

Environment variables for database connection

> ELO Cloud on Kubernetes currently supports PostreSQL and Microsoft SQL-Server.

`DATABASE_TYPE`

Optional Type of the database used. Currently supported is Microsoft SQL Server `MSSQL` and PostgreSQL `POSTGRESQL`

Defaults to: POSTGRESQL

Example: POSTGRESQL

Example: MSSQL

`DATABASE_PORT`

Port of the database server.

By default postgres uses port `5432`.

Defaults to: 5432

Example: 5432

DATABASE_HOST

Host for database authentication.

Defaults to: postgres

Example: postgres

DATABASE_USERNAME

Username for database authentication.

Defaults to: elodb

Example: admin

DATABASE_PASSWORD

Mandatory Password the database user can authenticate with.

Example: xhsjdK923kLqw

Environment variables for proxy ELO components

Optional The Index Server is proxying other ELO services in order to handle secure session without exposing session tokens. Therefore internal URIs must be given that external services should be proxied to.

Proxy services are accessible using the proxy plugin.

Example: http://elo.mycloud.com/repository/plugin/de.elo.ix.plugin.proxy/web/

SERVICE_IX_PROXY_WEB

Optional Proxy service for the ELO Web Client which will be available using the path `/web/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://ui:9090/web/

Example: http://ui:9090/web/

SERVICE_IX_PROXY_AC

Optional Proxy service for the ELO Administration Console which will be available using the path `/ac/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://ui:9090/ac/

Example: http://ui:9090/ac/

SERVICE_IX_PROXY_AS

Optional Proxy service for the ELO Automation Service which will be available using the path `/as/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://as:9090/as/

Example: http://as:9090/as/

SERVICE_IX_PROXY_WF

Optional Proxy service for the ELO WF which will be available using the path `/wf/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://ui:9090/wf/

Example: http://ui:9090/wf/

SERVICE_IX_PROXY_ANALYTICS

Optional Proxy service for ELO Analytics which will be available using the path `/analytics/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://analytics:9300/analytics/

Example: http://analytics:9300/analytics/

SERVICE_IX_PROXY_RP

Optional Proxy service for ELO RP which will be available using the path `/rp/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://rp:9090/rp/

Example: http://rp:9090/rp/

SERVICE_IX_PROXY_FLOWS_MANAGER

Optional Proxy service for ELO flows which will be available using the path `/flows/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://flows:9090/flows/

Example: http://flows:9090/flows/

> Only for ELO 21 image versions.

Environment variables for search cluster connection

Mandatory ELO search clusters are protected by certificates. In order to authenticate a client, that client requires a valid certificate that was issued by a trusted authority.

> These settings are primarily used by *kubernetes deployments* that are manageged by the ELO Cloud on Kubernetes Operator.
>
> If running docker compose all values except `KEYSTORE_PASSWORD` are generated automatically in the initialization process and are persisted using docker volumes.

`KEYSTORE_PASSWORD`

Password that protects the Java keystore. This is set during startup.

Example: egHjskI7shdg

`TLS_SEARCH_CA_CRT`

Optional Public tls certificate of that client authority that was used for creating certificates.

This value is passed by the ELO Cloud on Kubernetes Operator.

```
-----BEGIN CERTIFICATE-----
MIICkDCCAhagAwIBAgIUC5XL1ai6wbUtbyFZnut5zQuDIhQwCgYIKoZIzj0EAwIw
ezElMCMGA1UECgwcRUxPIERpZ2l0YWwgT2ZmaWNlIEdtYkggUm9vdDEoMCYGA1UE
CwwfRUxPIERpZ2l0YWwgT2ZmaWNlIEdtYkggUm9vdCBDQTEoMCYGA...
-----END CERTIFICATE-----
```

`TLS_SEARCH_IX_CRT`

Optional Public tls certificate that is used to authenticate the Index Server in the search cluster. Certificate should contain the full certificate path including the issuing authority `TLS_SEARCH_CA_CRT`.

This value is passed by the ELO Cloud on Kubernetes Operator.

```
-----BEGIN CERTIFICATE-----
MIICkDCCAhagAwIBAgIUC5XL1ai6wbUtbyFZnut5zQuDIhQwCgYIKoZIzj0EAwIw
ezElMCMGA1UECgwcRUxPIERpZ2l0YWwgT2ZmaWNlIEdtYkggUm9vdDEoMCYGA1UE
CwwfRUxPIERpZ2l0YWwgT2ZmaWNlIEdtYkggUm9vdCBDQTEoMCYGA...
-----END CERTIFICATE-----
-----BEGIN CERTIFICATE-----
MIICHjCCAaSgAwIBAgIUFLPkhBANtqxpqvIGKGOI8ZBsp2cwCgYIKoZIzj0EAwIw
ezElMCMGA1UECgwcRUxPIERpZ2l0YWwgT2ZmaWNlIEdtYkggUm9vdDEoMCYGA1UE
CwwfRUxPIERpZ2l0YWwgT2ZmaWNlIEdtYkggUm9vdCBDQTEoMCYG1U...
-----END CERTIFICATE-----
```

TLS_SEARCH_IX_KEY

Optional Private key for the search cluster certificate `TLS_SEARCH_IX_CRT` that was issued by `TLS_SEARCH_CA_CRT`.

This value is passed by the ELO Cloud on Kubernetes Operator.

```
-----BEGIN EC PRIVATE KEY-----
MIGkAgEBBDCG3hwlEeH5N1f8XT5UvRNmbtfQkg+xwTFcTyKn963YcXQAMrkS8oUm
O/UAgdO4xregBwYFK4EEACKhZANiAAQ3PqNp0gEO1Q82P4dwsssOOD...
-----END EC PRIVATE KEY-----
```

ELASTIC_HOST

Hostname of the search instance.

Defaults to: search

Example: search

Environment variables for running on Docker

ELO_MODE

If running on Docker-Compose the mode "Compose" should be passed in order to sync with init containers. Cluster modes are used by the ELO Cloud on Kubernetes Operator.

Defaults to: Compose

Example: Compose

Example: Cluster

Environment variable for running on Kubernetes

`POD_ID_OF_STATEFULSET` (kubernetes)

Name and ordinal index of the pod. Only required if running whithin kubernetes stateful sets. This allows ELO identifying which instance number the current pod is. Pods ids in stateful sets are added to the name. e.g `repository-ix-0`, `repository-ix-1`, etc.

```
# pod names can be passed as environment variables as follows using a field reference.
- name: POD_ID_OF_STATEFULSET
  valueFrom:
    fieldRef:
      fieldPath: metadata.name
```

Service ports

Apache tomcat is exposed on port `9090`.

Example: http://ix:9090/repository

Example: http://ix:9090/repository/ix

Example: http://ix:9090/repository/plugin/de.elo.ix.plugin.proxy/web/

Persistence

`/opt/elo/data/eloam`

Data dir of the access manager.

`/opt/elo/data/ix`

Data dir of the index server.

`/opt/elo/archive/elosys`

Repository data for system files. This typically includes scripts in the administration area.

`/opt/elo/archive/basis`

Repository data for documents.

`/opt/elo/config/certificates/ix`

Certificates that are used for authenticating the search cluster.

> This volume is only used by docker compose. In this case the ix-setup container generates all certificates.
>
> The ELO Cloud on Kubernetes Operator generates certificates itself and passes them as secrets `TLS_SEARCH_CA_CRT`, `TLS_SEARCH_IX_CRT`, `TLS_SEARCH_CA_KEY`.

`/opt/elo/prog/webapps/ix-plugins/public`

Custom OSGI Plugins

`/opt/elo/logs`

Data dir for logs

Supported versions

- `registry.elo.com/eck-services-internal/ix:v23-1.3`

eck-services-internal/ix-setup

This image contains the ELO setup routine for ELO Index Server. It can be used as initialization container for ELO Index Server container. ELO Cloud on Kubernetes currently supports PostreSQL and Microsoft SQL-Server.

```
# Start using docker-compose
version: "3.7"
services:
  ix-setup:
    image: registry.elo.com/eck-services-internal/ix-setup:v23-1.3
    container_name: ix-initialize
    environment:
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
      AUTH_ADMIN_PASSWORD: QRLTS38FjesG
      DATABASE_PASSWORD: xhsjdK923kLqw
      KEYSTORE_PASSWORD: NLcad64E3F7xL2dC
      ELO_LIC: |-
        createdate=2021-07-02
        customer1=ELO 20 Test
        customer2=Not for resale
        usercount1=60
        ...
```

Clustering

This component should not be clustered

Environment variables for IX configuration

AUTH_SERVICE_PASSWORD

Mandatory Password for the service user account that is used for authentication.

Example: elo

AUTH_ADMIN_PASSWORD

Mandatory Password for the Administrator account that is used for authentication.

Example: elo

ELO_LIC

Mandatory License key that is used for this repository.

Example:

```
createdate=2021-07-02
customer1=ELO 20 Test
customer2=Not for resale
usercount1=60
```

> From version 21.2 onwards you can set a private rsa key for `ELO_LIC` instead of a license key. ELO will download the rsa encrypted license from a license server and will decrypt it with the private key.

REPO_NAME

Optional Name for the ELO Repository

Defaults to: repository

Example: repository

REPO_LANGUAGE

Optional Default language of the repository.

Defaults to: en

Example: en

ELO_DISPLAY_NAME

Optional Additional option to name database and archive different. Doing this REPO_NAME is the database and ELO_DISPLAY_NAME is the displayed archive name.

Defaults to: $REPO_NAME

> Only usable from version 21.4 and onwards

ELO_LICENSE_TYPE

Optional Used to configure the kind of license being used.

Valid values are as follows:

Value	Type
0	Production (Default)
1	Test
2	Development

Defaults to: 0 (Production)

> Only usable from version 21.4 and onwards

AUTH_SERVICE_USERNAME

Optional Name of the ELO service user account that is used by the Index Server internally for retrieving documents and establishing sessions.

Defaults to: ELO Service

Example: ELO Service

AUTH_ADMIN_USERNAME

Optional Name of the ELO administration user account.

Defaults to: Administrator

Example: Administrator

ELO_AM_OVERRIDE_PW

Optional Whether to overwrite the Administrator password on setup start if the user already exists. Useful for resetting the password.

Defaults to: false

Example: false

Valid values:

Value	Description
true	Overwrite the password on setup start
false	Do not overwrite the password

IX_ID

Optional Id of the Index Server instance. This allows directing operations to a specific index server instance.

Defaults to: ELO-base

Example: base

Optional If running kubernetes, should be the name of the pod including its ordinal index.

Example: repository-ix-0

IX_URL_PRIVATE

Optional Private URL for ELO IX

Defaults to: http://ix:9090/{REPO_NAME}/ix

ELO_HOST

DEPLOY_CERTIFICATES

Optional Boolean for certificates deployment

Defaults to: true

> If this boolean is set to `false` the cloud setup will not create any certificates for search. In addition to this, the `Administrator` user, when freshly created, will have to change his initial password (`AUTH_ADMIN_PASSWORD`).

Environment variables for file manager configuration

IX_USE_FILE_MANAGER_CLOUD

Optional Determines if cloud persistence for postbox files is required or not. In case of cloud deployment set to true.

Defaults to: false

Example: true

IX_MAX_CONFIG_FILE_LENGTH_MB

Optional Determines maximum config file length in mb

Defaults to: 1

Example: 100

> Only usable from version 21.4 and onwards

Environment variables for database connection

DATABASE_PASSWORD

Mandatory Password the database user can authenticate with.

Example: xhsjdK923kLqw

DATABASE_TYPE

Mandatory Type of the database used. Currently supported is Microsoft SQL Server `MSSQL` and PostgreSQL `POSTGRESQL`

Defaults to: POSTGRESQL

Example: POSTGRESQL

Example: MSSQL

DATABASE_PORT

Mandatory Port of the database server.

By default postgres uses port `5432`.

Defaults to: 5432

Example: 5432

DATABASE_USERNAME

Mandatory Username for database authentication.

Defaults to: elodb

Example: admin

DATABASE_MAX_RETRIES

Optional Number of retries for database connection

Defaults to: 150

Environment variables for search configuration

KEYSTORE_PASSWORD

Mandatory Password that protects the Java keystore. This is set during startup.

Example: egHjskI7shdg

ELASTIC_HOST

Optional

Defaults to: search

URL base

IX_URL_BASE

Optional URL base of the Index Server.

IX_URL_PUBLIC

Optional Public URL base of the Index Server. This is primarily used for generating external links.

Persistence

/opt/elo/data/eloam

Data dir of the access manager.

/opt/elo/data/ix

Data dir of the index server.

/opt/elo/archive/elosys

Repository data for system files. This typically includes scripts in the edministration area.

/opt/elo/archive/basis

Repository data for documents.

/opt/elo/config/certificates/ix

Certificates that are used for authenticating the search cluster.

/opt/elo/config/certificates/search

Certificates that are used for authenticating the search cluster.

Supported versions

- `registry.elo.com/eck-services-internal/ix-setup:v23-1.3`

eck-services-internal/ix-import

This image contains the import routine for ELO Index Server. The routine imports thesaurus and dropzone.

```
# Start using docker-compose
version: "3.7"
services:
  ix-import:
    image: registry.elo.com/eck-services-internal/ix-import:v23-1.3
    container_name: ix-import
    environment:
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
      AUTH_ADMIN_PASSWORD: QRLTS38FjesG
```

```
# Start using docker run
docker run --name ix-import -d \
  -e "AUTH_SERVICE_PASSWORD=moxIZAaDQGjw" \
  -e "AUTH_ADMIN_PASSWORD=QRLTS38FjesG" \
  registry.elo.com/eck-services-internal/ix-import:v23-1.3
```

Clustering

This component should not be clustered

Environment variables for ix connection

REPO_NAME

Optional Name for the ELO Repository

Defaults to: repository

Example: repository

> Only for ELO 20 image versions. For ELO 21 this feature is WIP

ELO_DISPLAY_NAME

Optional Additional option to name database and archive different. Doing this REPO_NAME is the database and ELO_DISPLAY_NAME is the displayed archive name.

Defaults to: $REPO_NAME

> Only usable from version 21.4 and onwards

IX_URL

Optional URL of the Index Server api-endpoint the preview conversion service should connect to.

Defaults to: http://ix:9090/{REPO_NAME}/ix

Example: http://ix:9090/solutions/ix

REPO_LANGUAGE

Language setting for the repository. This is used in order to set the default locale for the service user account.

Defaults to: en

Example: en

Environment variables for ix-import configuration

AUTH_SERVICE_USERNAME

Optional Name of the ELO service user account that the preview conversion service should authenticate with.

Defaults to: ELO Service

AUTH_SERVICE_PASSWORD

Mandatory Password for the service user account that is used for authentication.

Example: moxIZAaDQGjw

AUTH_ADMIN_USERNAME

Optional Name of the ELO admin account that the preview conversion service should authenticate with.

Defaults to: Administrator

AUTH_ADMIN_PASSWORD

Mandatory Password for the admin account that is used for authentication.

Example: QRLTS38FjesG

Supported versions

- `registry.elo.com/eck-services-internal/ix-import:v23-1.3`

eck-services-internal/server

This image includes the ELO Index Server, the Admin Console, the Web Client and the Web Froms Services. It can be used as a frontend-service for all incoming connections, api calls and ELO web services.
This image serves as a replacement for eck-services-internal/ix and eck-services-internal/ui.

```yaml
# Start using docker-compose
version: "3.7"
services:
  ix:
    image: registry.elo.com/eck-services-internal/server:v23-1.3
    container_name: ix
    ports:
      - 9090:9090
    links:
      - postgres:postgres
    environment:
      DATABASE_PASSWORD: CKZbP0SVMAPu
      KEYSTORE_PASSWORD: NLcad64E3F7xL2dC
    volumes:
      - data-ix:/opt/elo/data/ix
      - data-eloam:/opt/elo/data/eloam
      - repository-system:/opt/elo/archive/elosys
      - repository-basis:/opt/elo/archive/basis
      - plugins:/opt/elo/prog/webapps/ix-plugins/public
      - certificates-ix:/opt/elo/config/certificates/ix/:ro
```

```
# Start using docker run
docker run --name server -d \****
  -e "DATABASE_PASSWORD=xhsjdK923kLqw" \
  -e "KEYSTORE_PASSWORD=NLcad64E3F7xL2dC" \
  -v data-ix:/opt/elo/data/ix \
  -v data-eloam:/opt/elo/data/eloam \
  -v repository-system:/opt/elo/archive/elosys \
  -v repository-basis:/opt/elo/archive/basis \
  -v plugins:/opt/elo/prog/webapps/ix-plugins/public \
  -v certificates-ix:/opt/elo/config/certificates/ix/:ro \
  -p 9090:9090 \
  registry.elo.com/eck-services-internal/server:v23-1.3
```

Environment variables for ix configuration

IX_ID

Optional Id of the Index Server instance. This allows directing operations to a specific index server instance.

Example: base

If running kubernetes, should be the name of the pod including its ordinal index.

Defaults to: ELO-base

Example: repository-ix-0

ELO_DISPLAY_NAME

Optional Additional option to name database and archive different. Doing this REPO_NAME is the database and ELO_DISPLAY_NAME is the displayed archive name.

Defaults to: $REPO_NAME

> Only usable from version 21.4 and onwards

IX_APP_PATH

Path the Index Server can be accessed in this container. This setting changes the context path value of the web application.

If using `ROOT` the Index Server can be accessed using `ix:9090/ix`. This can break some functions. If using `archivename` the resulting url will be `ix:9090/archivename/ix`.

Defaults to: {REPO_NAME}

example: archivename

> The ELO Cloud on Kubernetes Operator maps all archives for each tenant on the same url in order to reduce naming conflicts.
>
> If one tenant `customer1` has two repositories `hr` and `emails`, Index Servers of the repositories can be accessed using the urls `https://customer1.mycompany.local/hr` and `https://customer1.mycompany.local/emails`.
>
> ELO on premise installations usually use `ix-` as a prefix. e.g. `ix-archivename`. Thanks to the proxy that masks other ELO services, the IX is the only component to be publicly accessible.

ELO_HOST

Used by the initialization procedure.

Defaults to: http://ix:9090

Example: http://ix:9090

REPO_NAME

Optional Name for the ELO Repository

Defaults to: repository

Example: repository

IX_URL_PRIVATE

Optional Private URL for ELO IX

Defaults to: http://ix:9090/{REPO_NAME}/ix

WEB_URL

Optional URL of the ELO Web Client other services should connect to. This param is used by the administration console.

Defaults to: http://ui:9090/web/

Example: http://ui:9090/web

REPO_LANGUAGE

Language setting for the repository. This is used in order to set the default locale for the service user account.

Defaults to: en
Example: en

Environment variables for ui configuration

AUTH_SERVICE_USERNAME

Optional Name of the ELO service user account that the preview conversion service should authenticate with.

Defaults to: ELO Service

Example: ELO Service

AUTH_SERVICE_PASSWORD

Optional Password for the service user account that is used for authentication.

Example: moxIZAaDQGjw

WF_PRODUCTION

Optional Loads installed apps automatically every time the wf starts.

Defaults to: true

Environment variables for tomcat configuration

AUTH_TOMCAT_USERNAME

Optional Name of the tomcat admin

Example: admin

> If you don't set, no tomcat admin user exists

AUTH_TOMCAT_PASSWORD

Example: HpHZ6Orc5RWO

> If you don't set, no tomcat admin user exists

Environment variables for Tomcat RemoteIpValve configuration

RemoteIpValve is being used when running behind a Reverse Proxy. It allows the Tomcat to detect whether it runs behind a Reverse Proxy by inspecting the Request Header passed.

More Details can be found here.

ELO_TOMCAT_REMOTEIPVALVE_ENABLED

Example: `true`

Defaults to `true`

Control whether the RemoteIpValve is enabled or not

ELO_TOMCAT_REMOTE_IP_HEADER

Example: `x-forwarded-for`

Defaults to `x-forwarded-for`

Name of the Http Header read by this valve that holds the list of traversed IP addresses starting from the requesting client

ELO_TOMCAT_INTERNAL_PROXIES

Example: `192\.168\.\d{1,3}\.\d{1,3}`

Defaults to `10\.\d{1,3}\.\d{1,3}\.\d{1,3}|192\.168\.\d{1,3}\.\d{1,3}| 169\.254\.\d{1,3}\.\d{1,3}|127\.\d{1,3}\.\d{1,3}\.\d{1,3}| 172\.1[6-9]{1}\.\d{1,3}\.\d{1,3}|172\.2[0-9]{1}\.\d{1,3}\.\d{1,3}| 172\.3[0-1]{1}\.\d{1,3}\.\d{1,3}| 0:0:0:0:0:0:0:1|::1`

By default, 10/8, 192.168/16, 169.254/16, 127/8, 172.16/12, and ::1 are allowed.

Regular expression that matches the IP addresses of internal proxies. If they appear in the remoteIpHeader value, they will be trusted and will not appear in the proxiesHeader value

ELO_TOMCAT_PROXIES_HEADER

Example: `x-forwarded-by`

Defaults to `x-forwarded-by`

Name of the http header created by this valve to hold the list of proxies that have been processed in the incoming remoteIpHeader

ELO_TOMCAT_PROTOCOL_HEADER

Example: `x-forwarded-proto`

Defaults to `x-forwarded-proto`

Name of the http header read by this valve that holds the flag that this request was forwarded from

ELO_TOMCAT_PROTOCOL_HEADER_HTTPS_VALUE

Example: `https`

Defaults to `https`

Value of the `ELO_TOMCAT_PROTOCOL_HEADER` to indicate that it is an Https request

Environment variables for log configuration

IX_LOG_LEVEL

Optional The ELO IX loglevel for log outputs.

Defaults to: info

IX_LOG_MAX_HISTORY_DAYS

Defines the number of days the log is stored

Defaults to: 14

IX_LOG_MAX_FILE_SIZE

Defines the maximal logfile size

Defaults to: 500MB

> More infos to LOKI Logging can be found here

AC_LOG_LEVEL

Optional The ELO Administration Console loglevel for log outputs.

Defaults to: info

AC_LOG_MAX_HISTORY_DAYS

Defines the number of days the log is stored

Defaults to: 14

AC_LOG_MAX_FILE_SIZE

Defines the maximal logfile size

Defaults to: 500MB

WEB_LOG_LEVEL

Optional The ELO Web Client loglevel for log outputs.

Defaults to: info

WEB_LOG_MAX_HISTORY_DAYS

Defines the number of days the log is stored

Defaults to: 14

WEB_LOG_MAX_FILE_SIZE

Defines the maximal logfile size

Defaults to: 500MB

WF_LOG_LEVEL

Optional The ELO Web Forms loglevel for log outputs.

Defaults to: info

WF_LOG_MAX_HISTORY_DAYS

Defines the number of days the log is stored

Defaults to: 14

WF_LOG_MAX_FILE_SIZE

Defines the maximal logfile size

Defaults to: 500MB

> More infos to LOKI Logging can be found here

Environment variables for file manager configuration

IX_USE_FILE_MANAGER_CLOUD

Optional Determines if cloud persistence for postbox files is required or not. In case of cloud deployment set to true.

Defaults to: false

Example: true

IX_MAX_CONFIG_FILE_LENGTH_MB

Optional Determines maximum config file length in mb

Defaults to: 1

Example: 100

> Only usable from version 21.4 and onwards

Environment variables for database connection

> ELO Cloud on Kubernetes currently supports PostreSQL and Microsoft SQL-Server.

DATABASE_TYPE

Optional Type of the database used. Currently supported is Microsoft SQL Server `MSSQL` and PostgreSQL `POSTGRESQL`

Defaults to: POSTGRESQL

Example: POSTGRESQL

Example: MSSQL

DATABASE_PORT

Port of the database server.

By default postgres uses port `5432`.

Defaults to: 5432

Example: 5432

DATABASE_HOST

Host for database authentication.

Defaults to: postgres

Example: postgres

DATABASE_USERNAME

Username for database authentication.

Defaults to: elodb

Example: admin

DATABASE_PASSWORD

Mandatory Password the database user can authenticate with.

Example: xhsjdK923kLqw

Environment variables for proxy ELO components

Optional The Index Server is proxying other ELO services in order to handle secure session without exposing session tokens. Therefore internal URIs must be given that external services should be proxied to.

Proxy services are accessible using the proxy plugin.

Example: http://elo.mycloud.com/repository/plugin/de.elo.ix.plugin.proxy/web/

SERVICE_IX_PROXY_WEB

Optional Proxy service for the ELO Web Client which will be available using the path `/web/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://server:9090/web/

Example: http://server:9090/web/

SERVICE_IX_PROXY_AC

Optional Proxy service for the ELO Administration Console which will be available using the path `/ac/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://server:9090/ac/

Example: http://server:9090/ac/

SERVICE_IX_PROXY_AS

Optional Proxy service for the ELO Automation Service which will be available using the path `/as/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://as:9090/as/

Example: http://as:9090/as/

SERVICE_IX_PROXY_WF

Optional Proxy service for the ELO WF which will be available using the path `/wf/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://server:9090/wf/

Example: http://server:9090/wf/

SERVICE_IX_PROXY_ANALYTICS

Optional Proxy service for ELO Analytics which will be available using the path `/analytics/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://analytics:9300/analytics/

Example: http://analytics:9300/analytics/

SERVICE_IX_PROXY_RP

Optional Proxy service for ELO RP which will be available using the path `/rp/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://rp:9090/rp/

Example: http://rp:9090/rp/

SERVICE_IX_PROXY_FLOWS_MANAGER

Optional Proxy service for ELO flows which will be available using the path `/flows/`. An internal URI thats only accessible in docker can be given.

Defaults to: http://flows:9090/flows/

Example: http://flows:9090/flows/

> Only for ELO 21 image versions.

Environment variables for search cluster connection

Mandatory ELO search clusters are protected by certificates. In order to authenticate a client, that client requires a valid certificate that was issued by a trusted authority.

> These settings are primarily used by *kubernetes deployments* that are manageged by the ELO Cloud on Kubernetes Operator.
>
> If running docker compose all values except `KEYSTORE_PASSWORD` are generated automatically in the initialization process and are persisted using docker volumes.

KEYSTORE_PASSWORD

Password that protects the Java keystore. This is set during startup.

Example: egHjskI7shdg

TLS_SEARCH_CA_CRT

Optional Public tls certificate of that client authority that was used for creating certificates.

This value is passed by the ELO Cloud on Kubernetes Operator.

```
-----BEGIN CERTIFICATE-----
MIICkDCCAhagAwIBAgIUC5XL1ai6wbUtbyFZnut5zQuDIhQwCgYIKoZIzj0EAwIw
ezElMCMGA1UECgwcRUxPIERpZ2l0YWwgT2ZmaWNlIEdtYkggUm9vdDEoMCYGA1UE
CwwfRUxPIERpZ2l0YWwgT2ZmaWNlIEdtYkggUm9vdCBDQTEoMCYGA...
-----END CERTIFICATE-----
```

TLS_SEARCH_IX_CRT

Optional Public tls certificate that is used to authenticate the Index Server in the search cluster. Certificate should contain the full certificate path including the issuing authority `TLS_SEARCH_CA_CRT`.

This value is passed by the ELO Cloud on Kubernetes Operator.

```
-----BEGIN CERTIFICATE-----
MIICkDCCAhagAwIBAgIUC5XL1ai6wbUtbyFZnut5zQuDIhQwCgYIKoZIzj0EAwIw
ezElMCMGA1UECgwcRUxPIERpZ2l0YWwgT2ZmaWNlIEdtYkggUm9vdDEoMCYGA1UE
CwwfRUxPIERpZ2l0YWwgT2ZmaWNlIEdtYkggUm9vdCBDQTEoMCYGA...
-----END CERTIFICATE-----
-----BEGIN CERTIFICATE-----
MIICHjCCAaSgAwIBAgIUFLPkhBANtqxpqvIGKGOI8ZBsp2cwCgYIKoZIzj0EAwIw
ezElMCMGA1UECgwcRUxPIERpZ2l0YWwgT2ZmaWNlIEdtYkggUm9vdDEoMCYGA1UE
CwwfRUxPIERpZ2l0YWwgT2ZmaWNlIEdtYkggUm9vdCBDQTEoMCYG1U...
-----END CERTIFICATE-----
```

TLS_SEARCH_IX_KEY

Optional Private key for the search cluster certificate `TLS_SEARCH_IX_CRT` that was issued by `TLS_SEARCH_CA_CRT`.

This value is passed by the ELO Cloud on Kubernetes Operator.

```
-----BEGIN EC PRIVATE KEY-----
MIGkAgEBBDCG3hwlEeH5N1f8XT5UvRNmbtfQkg+xwTFcTyKn963YcXQAMrkS8oUm
O/UAgdO4xregBwYFK4EEACKhZANiAAQ3PqNp0gEO1Q82P4dwsssOOD...
-----END EC PRIVATE KEY-----
```

ELASTIC_HOST

Hostname of the search instance.

Defaults to: search

Example: search

Environment variables for running on Docker

ELO_MODE

If running on Docker-Compose the mode "Compose" should be passed in order to sync with init containers. Cluster modes are used by the ELO Cloud on Kubernetes Operator.

Defaults to: Compose

Example: Compose

Example: Cluster

Environment variable for running on Kubernetes

`POD_ID_OF_STATEFULSET` (kubernetes)

Name and ordinal index of the pod. Only required if running whithin kubernetes stateful sets. This allows ELO identifying which instance number the current pod is. Pods ids in stateful sets are added to the name. e.g `repository-ix-0`, `repository-ix-1`, etc.

```
# pod names can be passed as environment variables as follows using a field reference.
- name: POD_ID_OF_STATEFULSET
  valueFrom:
    fieldRef:
      fieldPath: metadata.name
```

Service ports

Apache tomcat is exposed on port `9090`.

Example: http://ix:9090/repository

Example: http://ix:9090/repository/ix

ELO Web Client is mapped with application name `/web`. ELO WF is mapped with application name `/wf`. ELO Administration console is mapped with application name `/administration`.

Example: http://ix:9090/repository/plugin/de.elo.ix.plugin.proxy/web/

Persistence

`/opt/elo/data/eloam`

Data dir of the access manager.

`/opt/elo/data/ix`

Data dir of the index server.

`/opt/elo/archive/elosys`

Repository data for system files. This typically includes scripts in the administration area.

`/opt/elo/archive/basis`

Repository data for documents.

`/opt/elo/config/certificates/ix`

Certificates that are used for authenticating the search cluster.

> This volume is only used by docker compose. In this case the ix-setup container generates all certificates.
>
> The ELO Cloud on Kubernetes Operator generates certificates itself and passes them as secrets `TLS_SEARCH_CA_CRT`, `TLS_SEARCH_IX_CRT`, `TLS_SEARCH_CA_KEY`.

`/opt/elo/prog/webapps/ix-plugins/public`

Custom OSGI Plugins

`/opt/elo/logs`

Data dir for logs

Supported versions

- `registry.elo.com/eck-services-internal/server:v23-1.3`

eck-services/search

This image includes the iSearch.

```
# Start using docker-compose
version: "3.7"
services:
  search:
    image: registry.elo.com/eck-services/search:v23-1.0
    container_name: search
    ports:
      - 9204:9204
      - 9200:9200
    environment:
      bootstrap.memory_lock: "true"
      AUTH_SERVICE_USERNAME: ELO Service
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
      AUTH_SERVICE_PASSWORD_BCRYPT: $$2a$$04$$Dj/qj0ceUNr8pAEj92SBoO9iA5qmJStYFlaPCnwv8/Msq
      KEYSTORE_PASSWORD: NLcad64E3F7xL2dC
    volumes:
      - data-search:/opt/elo/data/index
      - certificates-search:/opt/elo/config/certificates/search
      - logs:/opt/elo/logs
```

```
# Start using docker run
docker run --name search -d \
  --hostname search \
  -e "KEYSTORE_PASSWORD=NLcad64E3F7xL2dC" \
  -e "bootstrap.memory_lock=true" \
  -e "AUTH_SERVICE_PASSWORD=moxIZAaDQGjw" \
  -e "AUTH_SERVICE_PASSWORD_BCRYPT=$$2a$$04$$Dj/qj0ceUNr8pAEj92SBoO9iA5qmJStYFlaPCnwv8/Msqt
  -v data-search:/opt/elo/data/index \
  -v certificates-search:/opt/elo/config/certificates/search \
  -p 9200:9200 \
  -p 9204:9204 \
  registry.elo.com/eck-services/search:v23-1.0
```

Requires ix container running and that ix-setup executed.

Clustering

This component should not be clustered

Environment variables for deployment

`ELO_MODE`

Optional Variable to define the deployment of the ELO components, possible values are `Cluster` or `Compose`.

Defaults to: Compose

Environment variables for search configuration

`KEYSTORE_PASSWORD`

Mandatory Variable for the keystore.

> If this variable is not set the server setup generates a random key.

`AUTH_SERVICE_USERNAME`

Optional Name of the ELO service user account that is used by the Index Server internally for retrieving documents and establishing sessions.

Defaults to: ELO Service

Example: ELO Service

`AUTH_SERVICE_PASSWORD`

Mandatory Password for the service user account that is used for authentication.

`AUTH_SERVICE_PASSWORD_BCRYPT`

Optional Bcrypt hashed password. If not set, the `AUTH_SERVICE_PASSWORD` will be hashed automatically at startup.

`bootstrap.memory_lock`

Mandatory ELO-iSearch specific variable to lock the heap in memory.

`MAX_MEMORY`

Optional Minimum and maximum heap Memory (Java -Xms and -Xmx Parameters) in megabytes

Defaults to: 1024

`THREAD_STACK_SIZE`

Optional limit for stack memory consumption in kilobytes

Defaults to: 1024

Persistence

`/opt/elo/data/index`

This volume contains the search index and should be persisted. A fast and reliable storage is recommended.

> If you want to upgrade former search versions to `v21-2` you have to be aware that the search index of former versions is not compatible with search versions `v21-2 and onwards`.
>
> Further information you can find here

`/opt/elo/config/certificates/search`

Certificates that are used for authenticating the search cluster.

Supported versions

- `registry.elo.com/eck-services/search:v23-1.0`

eck-services-internal/ui

This image includes elo user interface components that interact with backend services. This includes *ELO Web Client*, *ELO WF* and the *ELO Administration Console*.

```
# Start using docker-compose
version: "3.7"
services:
  ui:
    image: registry.elo.com/eck-services-internal/ui:v23-1.2
    container_name: ui
    environment:
      AUTH_SERVICE_PASSWORD: moxIZAaDQGjw
    links:
      - ix:ix
```

```
# Start using docker run
docker run --name ui -d \
  -e "AUTH_SERVICE_PASSWORD=moxIZAaDQGjw" \
  registry.elo.com/eck-services-internal/ui:v23-1.2
```

Clustering

This component should not be clustered

Accessing UI components

UI components should not be accessed directly. The ELO Index Server therefore provides a reverse proxy that handles user sessions more efficient. This also allows sharing session tokens across components.

```
my-service.company.cloud/repository/plugin/de.elo.ix.plugin.proxy/web/
my-service.company.cloud/repository/plugin/de.elo.ix.plugin.proxy/wf/
my-service.company.cloud/repository/plugin/de.elo.ix.plugin.proxy/administration/
```

Internal Proxy URLS should be configured properly in the Index Server configuration. Refer to IX image environment variables for more information.

Environment variables for ix configuration

REPO_NAME

Optional Name for the ELO Repository

Defaults to: repository

Example: repository

> Only for ELO 20 image versions. For ELO 21 this feature is WIP

ELO_DISPLAY_NAME

Optional Additional option to name database and archive different. Doing this REPO_NAME is the database and ELO_DISPLAY_NAME is the displayed archive name.

Defaults to: $REPO_NAME

> Only usable from version 21.4 and onwards

IX_URL

Optional URL of the Index Server api-endpoint all ui components should connect to.

Defaults to: http://ix:9090/${REPO_NAME}/ix

Example: http://ix:9090/solutions/ix

AS_URL

Optional URL of the ELO Automation Services instance ui components should connect to. The ELO Web Client is internally forwarding AS requests in order to avoid CSS-Requests.

Defaults to: http://as:9090/as/

Example: http://as:9090/as

WEB_URL

Optional URL of the ELO Web Client other services should connect to. This param is used by the administration console.

Defaults to: http://ui:9090/web/

Example: http://ui:9090/web

AUTH_SERVICE_USERNAME

Optional Name of the ELO service user account that the preview conversion service should authenticate with.

Defaults to: ELO Service

Example: ELO Service

AUTH_SERVICE_PASSWORD

Optional Password for the service user account that is used for authentication.

Example: moxIZAaDQGjw

WF_PRODUCTION

Optional Loads installed apps automatically every time the wf starts.

Defaults to: true

AC_LOG_LEVEL

Optional The ELO Administration Console loglevel for log outputs.

Defaults to: info

AC_LOG_MAX_HISTORY_DAYS

Defines the number of days the log is stored

Defaults to: 14

AC_LOG_MAX_FILE_SIZE

Defines the maximal logfile size

Defaults to: 500MB

WEB_LOG_LEVEL

Optional The ELO Web Client loglevel for log outputs.

Defaults to: info

WEB_LOG_MAX_HISTORY_DAYS

Defines the number of days the log is stored

Defaults to: 14

WEB_LOG_MAX_FILE_SIZE

Defines the maximal logfile size

Defaults to: 500MB

WF_LOG_LEVEL

Optional The ELO Web Forms loglevel for log outputs.

Defaults to: info

WF_LOG_MAX_HISTORY_DAYS

Defines the number of days the log is stored

Defaults to: 14

WF_LOG_MAX_FILE_SIZE

Defines the maximal logfile size

Defaults to: 500MB

> More infos to LOKI Logging can be found here

Service ports

Apache tomcat is exposed on port `9090`.

ELO Web Client is mapped with application name `/web`. ELO WF is mapped with application name `/wf`. ELO Administration console is mapped with application name `/administration`.

Environment variables for Tomcat RemoteIpValve configuration

RemoteIpValve is being used when running behind a Reverse Proxy. It allows the Tomcat to detect whether it runs behind a Reverse Proxy by inspecting the Request Header passed.

More Details can be found here.

`ELO_TOMCAT_REMOTEIPVALVE_ENABLED`

Example: `true`

Defaults to `false`

Control whether the RemoteIpValve is enabled or not

`ELO_TOMCAT_REMOTE_IP_HEADER`

Example: `x-forwarded-for`

Defaults to `x-forwarded-for`

Name of the Http Header read by this valve that holds the list of traversed IP addresses starting from the requesting client

`ELO_TOMCAT_INTERNAL_PROXIES`

Example: `192\.168\.\d{1,3}\.\d{1,3}`

Defaults to `10\.\d{1,3}\.\d{1,3}\.\d{1,3}|192\.168\.\d{1,3}\.\d{1,3}| 169\.254\.\d{1,3}\.\d{1,3}|127\.\d{1,3}\.\d{1,3}\.\d{1,3}| 172\.1[6-9]{1}\.\d{1,3}\.\d{1,3}|172\.2[0-9]{1}\.\d{1,3}\.\d{1,3}| 172\.3[0-1]{1}\.\d{1,3}\.\d{1,3}| 0:0:0:0:0:0:0:1|::1`

By default, 10/8, 192.168/16, 169.254/16, 127/8, 172.16/12, and ::1 are allowed.

Regular expression that matches the IP addresses of internal proxies. If they appear in the remoteIpHeader value, they will be trusted and will not appear in the proxiesHeader value

Supported versions

- `registry.elo.com/eck-services-internal/ui:v23-1.2`