

v1.8

1.8

- :
- Linux, docker (Ubuntu Server 20);
- 12;
- , ;
- 100 ;
- 1/.

sudo ()

:

```
echo "$(whoami) ALL=(ALL) NOPASSWD: ALL" | sudo EDITOR='tee -a' visudo
```

. sudo .

ECCM

, , tar- FTP- . .

:

```
wget ftp://wifiguest:GuestWiFi@ftp.eltex.org/eccm/eccm-1.8.tar.gz
mkdir eccm
sudo tar -zxvf eccm-1.8.tar.gz -C eccm/
```

docker docker-compose

— , , compose-tools.sh, --install:

```
cd eccm
sudo ./compose-tools.sh --install
```

docker :

```
docker --version
```

, docker :

```
Docker version 20.10.18, build b40c2f6
```

docker-compose :

```
docker compose version
```

, docker-compose :

```
Docker Compose version v2.10.2
```

ECCM

ECCM , docker-compose. docker-:

- (PostgreSQL 14.2);
- (OSS ORY Hydra Oathkeeper);
- ECCM.

, Eltex.EDM.

"v1.8 ".

ECCM

, , , 100. , . :

```
sudo ./compose-tools.sh -h
```

" [compose-tools.sh](#)".

ECCM

:

```
sudo ./compose-tools.sh --start <ECCM ADDRESS>
```

, **ECCM ADDRESS** — IP-, ., 100.110.2.2, :

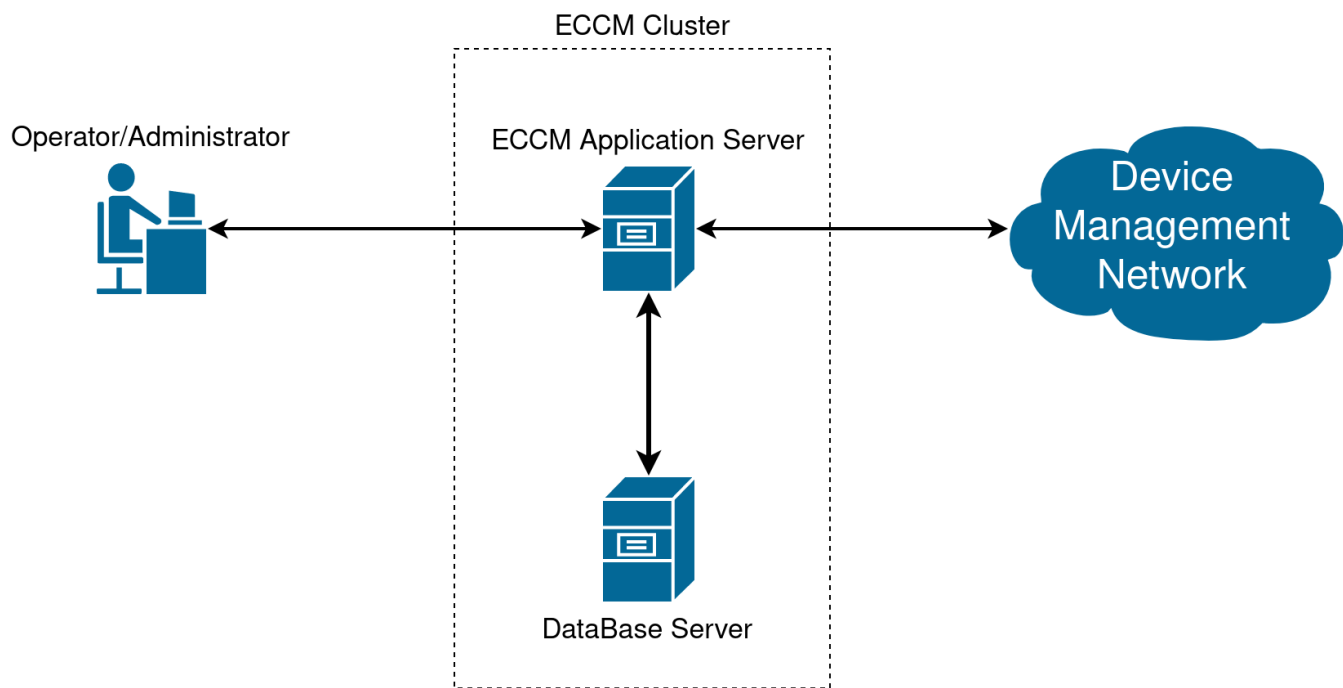
```
sudo ./compose-tools.sh --start 100.110.2.2
```



ECCM ADDRESS , . , , --start ECCM ADDRESS.

:

```
sudo ./compose-tools.sh --stop
```



ECCM Application Server — , , , web- .

Database Server — Postgres14. .

Device Management Network — IP- , ECCM L3.

Operator/Administrator — , / ELTEX, .

, (— Postgres, —), .

:

1. docker docker-compose .

2. .

2.1. // "postgres/.env". , , "postgres/data/postgresql.conf" (100).

2.2. PostgreSQL .

eccm/postgres :

```
cd eccm/postgers
docker compose up -d
```

3.

3.1. , , ECCM (identity-provider; ;), "identity-provider/.env". , (web-; ; / .) "eccm/.env".

3.2. :

```
sudo ./compose-tools.sh --start <ECCM ADDRESS> --external-database <DB ADDRESS>:<PORT>
```

, <DB ADDRESS> <PORT>— IP- , ., 100.110.2.2, 100.110.2.4, 5432, :

```
sudo ./compose-tools.sh --start 100.110.2.2 --external-database 100.110.2.4:5432
```

, ECCM , , :

```
postgres/.env
postgres/data/postgresql.conf
identity-provider/.env
eccm/.env
```

postgres/.env

postgres/.env , Postgres . :

COMPOSE_PROJECT_NAME	postgres	docker-compose (,)
POSTGRES_USER		,
POSTGRES_PASSWORD		,
POSTGRES_TIMEZONE	Asia/Novosibirsk	, (tz database, «Asia/Novosibirsk»)
POSTGRES_SHM_SIZE	2gb	Postgres

postgres/data/postgresql.conf

, . 100. ECCM ELTEX.

identity-provider/.env

identity-provider/.env , , ECCM.

```
# nginx proxy,
IDENTITY_PROVIDER_WEB_ADDRESS=<IP >
IDENTITY_PROVIDER_WEB_PORT=9090

## Postgres
# Postgres,
POSTGRES_HOST=<IP >
POSTGRES_PORT=5432
POSTGRES_USER=tester
POSTGRES_PASSWORD=tester
```

:

COMPOSE_PROJECT_NAME	eccm	docker-compose (,)
ECCM_PROFILE	production	
IDENTITY_PROVIDER_TAG	1.8	
IDENTITY_PROVIDER_REGISTRY	hub.eltex-co.ru	docker-registry, . ,
IDENTITY_PROVIDER_WEB_ADDRESS	192.168.0.1	, identity-provider
IDENTITY_PROVIDER_WEB_PORT	9090	identity-provider
POSTGRES_HOST	192.168.0.1	, Postgres

POSTGRES_PORT	5432	Postgres
POSTGRES_USER		,
POSTGRES_PASSWORD		,
CERT_PATH	./cert/server.crt	HTTPS
KEY_PATH	./cert/server.key	HTTPS

eccm/.env

eccm/.env , .

```
COMPOSE_PROJECT_NAME=eccm

ECCM_PROFILE=production
ECCM_TAG=1.8
ECCM_REGISTRY=hub.eltex-co.ru

#
ECCM_BACKBONE_ADDRESS=192.168.0.1
ECCM_WEB_ADDRESS=192.168.0.1

# Identity provider
(external)

# identity-provider
IDENTITY_PROVIDER_HOST=192.168.0.1
IDENTITY_PROVIDER_PORT=9090
IDENTITY_PROVIDER_PATH=/identity-provider
IDENTITY_PROVIDER_HYDRA_PUBLIC_PATH=/hydra/public

IDENTITY_PROVIDER_HYDRA_ADMIN_PATH=/hydra/admin

ECCM_WEB_PORT=80

ECCM_TIMEZONE=Asia/Novosibirsk
ECCM_LOGLEVEL=INFO

#
#
MAX_PARALLEL_TASKS=4

# HTTPS
CERT_PATH=./cert/server.crt
KEY_PATH=./cert/server.key
JAVA_CERT_PATH=/app/resources/cert/server.crt
ECCM_WEB_HTTPS_PORT=443
```

:

COMPOSE_PROJECT_NAME	eccm	docker-compose (,)
ECCM_PROFILE	production	
ECCM_TAG	1.8	
ECCM_REGISTRY	hub.eltex-co.ru	docker-registry, . ,

ECCM_BACKBONE_ADDRESS	192.168.0.1	, ECCM
ECCM_WEB_ADDRESS	192.168.0.1	, web- ECCM
IDENTITY_PROVIDER_HOST	192.168.0.1	identity-provider
IDENTITY_PROVIDER_PORT	9090	identity-provider
ECCM_WEB_PORT	80	web-
ECCM_TIMEZONE	Asia/Novosibirsk	, (tz database, «Asia/Novosibirsk»)
ECCM_LOGLEVEL	'INFO'	
MAX_PARALLEL_TASKS	4	
ECCM_MONITORING_SERVER_MEM_HARD_LIMIT	512M	docker-
ECCM_MONITORING_WEB_MEM_HARD_LIMIT	256M	docker-
POSTGRES_HOST	192.168.0.1	, Postgres
POSTGRES_PORT	5432	Postgres
POSTGRES_USER		,
POSTGRES_PASSWORD		,
TFTP_POOL_SIZE	100	, / TFTP-
CERT_PATH	./cert/server.crt	HTTPS
KEY_PATH	./cert/server.key	HTTPS
JAVA_CERT_PATH	/app/resources/cert/server.crt	HTTPS Java-
ECCM_WEB_HTTPS_PORT	443	, ECCM HTTPS

web-

web- ECCM :

http://<IP- (ECCM_WEB_ADDRESS)>/

 'eccm', 'eccm'.

:

```
ERROR: Couldn't connect to Docker daemon at http+[docker://localhost](docker://localhost) - is it running?
```

: docker- . :

```
sudo systemctl status docker
```

Active Active (running), .

: docker :

```
sudo systemctl start docker
```

:

```
Got permission denied while trying to connect to the Docker daemon socket at [unix:///var/run
/docker.sock]
(unix:///intdocs.eltex.loc/var/run/docker.sock): Get http://%2Fvar%2Frun%2Fdocker.sock/v1.40
/containers/json:
dial unix /var/run/docker.sock: connect: permission denied
```

: , docker.

1(): docker :

```
sudo usermod -aG docker $(whoami)
```

2: root.

:

```
Services starting...
Creating network "eccm_eltex-internal" with the default driver
ERROR: Pool overlaps with other one on this address space
```

., ECCM_INTERNAL_SUBNETWORK, docker.

: .env. docker- :

```
sudo docker network inspect $(docker network ls --filter "DRIVER=bridge" --format '{{ .Name }}') -f '{{ .Name
}}' {{ (index .IPAM.Config 0).Subnet }}
```

:

```
ERROR: error while removing network: network eccm_eltex-internal id
324bd72dd9c107cf2ea48effb75d9e7ad2dfbc8f5f7317b89cd7f318d61d5c4b has active endpoints
```

: docker .

: docker :

```
sudo systemctl restart docker
```

ECCM

. . .

ECCM :

- 1. , (, , NAT, Proxy ..).
- 2. ().
- 3. , GUI.

c ECCM, . Linux/Ubuntu.

- :
- 1. ~/eccm:

```
cd ~/eccm
```

- 2. :

```
./technical_support.sh
```

- 3. , .
- 4. technical_support.tar.gz

compose-tools.sh

--clean, -c	, .
--dhcp	DHCP- Zero Touch Provisioning (ZTP), .
--external-database <ADDRESS>:<PORT>	PostgreSQL, . <ADDRESS> <PORT> — IP- (: 5432) . , PostgreSQL.
--help, -h	.
--https	https. .
--install	Docker Docker-compose .
--interactive, -i	. --start.
--load	.tar.gz docker.
--logging, -l <LEVEL>	. : DEBUG, INFO.
--metrics, -m	.
--ms_legacy	.
--pull, -p	/ .
--rootlog <LEVEL>	. : DEBUG, INFO.
--save	docker- .tar.gz
--start, -s <ADDRESS>	IP-, .
--stop	.
--storage <ADDRESS>	ECCM (backbone). .
--tftp_storage <ADDRESS>	TFTP- (IPv4).
--tracing, -t <ADDRESS>	Jaeger OpenTracing. IP- Jaeger-.

Docker Docker-compose :

```
sudo ./compose-tools.sh --install
```

ECCM :

```
sudo ./compose-tools.sh --pull
```

https :

```
sudo ./compose-tools.sh --https --start <ECCM ADDRESS>
```

:

```
sudo ./compose-tools.sh --start <ECCM ADDRESS>
```

, , :

```
sudo ./compose-tools.sh --start <ECCM ADDRESS> --external-database <DB ADDRESS>:<PORT>
```

:

```
sudo ./compose-tools.sh --stop
```

, ECCM :

```
sudo ./compose-tools.sh --clean
```



--clean Postgres . ECCM .

--logging :

```
sudo ./compose-tools.sh --start <ECCM ADDRESS> --logging DEBUG
```

1.5 DHCP- Zero Touch Provisioning (ZTP), . . --dhcp :

```
sudo ./compose-tools.sh --start <ECCM ADDRESS> --dhcp
```

.tar.gz :

```
sudo ./compose-tools.sh --save
```

(.tar.gz) docker- :

```
sudo ./compose-tools.sh --load
```