

v1.6_ ECCM

ELTEX Cloud Configuration Manager
ECCM
1.6.0

- :
- Linux, docker (Ubuntu server 20);
 - 8 ;
 - , 4- ;
 - 40 ;
 - 1/.

sudo ()

:

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

. sudo .


, , tar- ftp- . .

:

```
wget ftp://wifiguest:GuestWiFi@ftp.eltex.org/eccm/eccm-1.6.tar.gz
mkdir eccm
sudo tar -zxvf eccm-1.6.tar.gz -C eccm/
```

docker docker-compose

— , , compose-tools.sh, --install. , .

 , , " " , .

:

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

docker :

```
docker --version
```

, docker :

```
Docker version 20.10.8, build 3967b7
```

docker-compose :

```
docker-compose --version
```

, docker-compose :

```
docker-compose version 1.29.2, build 5becea4
```

ECCM

ECCM , docker-compose. docker-:

- (PostgreSQL 12.5),
- (OSS ORY Hydra Oathkeeper),
- ECCM.

, Eltex.EDM.

, compose-tools.sh, , 100 (,).

<https://eltex-co.ru/> , , . "

:

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

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

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

, , (). --start , , .

:

```
Starting postgres...
Creating network "postgres_default" with the default driver
Creating volume "postgres_postgres" with default driver
Creating postgres_postgres_1 ... done
Postgres started

set IDENTITY_PROVIDER_WEB_ADDRESS=100.110.2.2
set POSTGRES_HOST=100.110.2.2
Starting identity-provider...
WARNING: The JAEGER_AGENT_HOST variable is not set. Defaulting to a blank string.
Creating network "identity-provider_default" with the default driver
Creating volume "identity-provider_hydra-config" with default driver
Creating identity-provider_postgres-configurator_1 ... done
Creating identity-provider_hydra_1 ... done
Creating identity-provider_identity-provider_1 ... done
Creating identity-provider_nginx-proxy_1 ... done
Identity-provider started

set ECCM_WEB_ADDRESS=100.110.2.2
set IDENTITY_PROVIDER_HOST=100.110.2.2
set ECCM_BACKBONE_ADDRESS=100.110.2.2
set POSTGRES_HOST=100.110.2.2
Starting ECCM services...
WARNING: The DHCP_ENABLED variable is not set. Defaulting to a blank string.
Creating network "eccm_eltex-internal" with the default driver
Creating network "eccm_default" with the default driver
Creating volume "eccm_upgrader-data" with default driver
Creating volume "eccm_git-templates-data" with default driver
Creating volume "eccm_git-config-data" with default driver
Creating volume "eccm_monitoring-server-alertscripts" with default driver
Creating volume "eccm_monitoring-server-externalscripts" with default driver
Creating volume "eccm_monitoring-server-modules" with default driver
Creating volume "eccm_monitoring-server-enc" with default driver
Creating volume "eccm_monitoring-server-ssh_keys" with default driver
Creating volume "eccm_monitoring-server-ssl-certs" with default driver
Creating volume "eccm_monitoring-server-ssl-keys" with default driver
Creating volume "eccm_monitoring-server-ssl-ssl_ca" with default driver
Creating volume "eccm_monitoring-server-snmptraps" with default driver
Creating volume "eccm_monitoring-server-mibs" with default driver
Creating volume "eccm_monitoring-server-export" with default driver
Creating volume "eccm_monitoring-web-ssl-nginx" with default driver
Creating volume "eccm_rabbitmq-data" with default driver
Creating volume "eccm_oathkeeper-config" with default driver
Creating volume "eccm_hydra-configurator" with default driver
Creating volume "eccm_dhcp" with default driver
Creating eccm_oathkeeper-proxy_1 ... done
Creating eccm_hydra-configurator_1 ... done
Creating eccm_rabbitmq-service_1 ... done
Creating eccm_monitoring-service-worker_1 ... done
Creating eccm_dhcp_1 ... done
Creating eccm_postgres-configurator_1 ... done
Creating eccm_monitoring-service_1 ... done
Creating eccm_postgres-monitoring-bouncer_1 ... done
Creating eccm_monitoring-server_1 ... done
Creating eccm_monitoring-web_1 ... done
Creating eccm_upgrade-finish-checker_1 ... done
Creating eccm_monitoring-adapter_1 ... done
Creating eccm_data-presenter_1 ... done
Creating eccm_license-manager_1 ... done
Creating eccm_polemarch_1 ... done
Creating eccm_map-manager_1 ... done
Creating eccm_ztp-manager_1 ... done
Creating eccm_backend-ui_1 ... done
Creating eccm_device-manager_1 ... done
Creating eccm_cron-manager_1 ... done
Creating eccm_communicator_1 ... done
Creating eccm_git-connector_1 ... done
Creating eccm_upgrader_1 ... done
Creating eccm_web-gui_1 ... done
ECCM started
```

:

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

ECCM :

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

, ECCM :

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

--clean Postgres . ECCM .

:

```
sudo ./compose-tools.sh --logging DEBUG
```

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

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

, 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 <https://eltex-co.ru/> 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	1.6	
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		,

eccm/.env

eccm/.env , .

```
COMPOSE_PROJECT_NAME=eccm

ECCM_PROFILE=production
ECCM_TAG=1.6
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
```

:

COMPOSE_PROJECT_NAME	eccm	docker-compose (,)
ECCM_PROFILE	production	
ECCM_TAG	1.6	
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-

- ECCM :

- docker .
- docker- docker-.
- ECCM.

docker

Docker , . <https://docs.docker.com/engine/install/ubuntu/#install-from-a-package> , Ubuntu 20.04 amd64.

1.

- https://download.docker.com/linux/ubuntu/dists/xenial/pool/stable/amd64/containerd.io_1.4.6-1_amd64.deb
- https://download.docker.com/linux/ubuntu/dists/xenial/pool/stable/amd64/docker-ce_20.10.7~3-0~ubuntu-xenial_amd64.deb
- https://download.docker.com/linux/ubuntu/dists/xenial/pool/stable/amd64/docker-ce-rootless-extras_20.10.7~3-0~ubuntu-xenial_amd64.deb
- https://download.docker.com/linux/ubuntu/dists/xenial/pool/stable/amd64/docker-ce-cli_20.10.7~3-0~ubuntu-xenial_amd64.deb

2. `dpkg -i <package_name>`

docker-compose

docker-compose https://github.com/docker/compose/releases/download/1.29.1/docker-compose-Linux-x86_64, `/usr/local/bin/`, `docker-compose`. :

```
sudo cp docker-compose-Linux-x86_64 /usr/local/bin/docker-compose
sudo chmod +x /usr/local/bin/docker-compose
```

docker-compose <https://docs.docker.com/compose/install/>.

docker- ECCM

docker-. ECCM. docker.

```
wget ftp://wifiguest:GuestWiFi@ftp.eltex.org/eccm/images/eccm_images_1.6.tar
sudo tar -xvf eccm_images_1.6.tar -C eccm/1.6
sudo eccm/1.6/compose-tools.sh --load
```

ECCM

, " ECCM".

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.

:

: docker. :

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

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, .

: .env. :

```
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, .

- :
1. ~/eccm:

```
cd ~/eccm
```

2. :

```
./technical_support.sh
```

3. ,
4. technical_support.tar.gz

, .
Linux/Ubuntu.