

# Ασφάλεια Δικτύων και Επικοινωνιών !

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## 1. Install swarmlab-sec (Home PC)

- Install docker  
<http://docs.swarmlab.io/SwarmLab-HowTos/labs/Howtos/docker/install.adoc.html>
- Clone repo <https://git.swarmlab.io:3000/swarmlab/swarmlab-sec>

## 2. Usage (swarmlab-sec)

- Open a console
- cd to swarmlab-sec
- Create a directory

```

cd <dir>

../install/usr/share/swarmlab.io/sec/swarmlab-sec

create      create project      (swarmlab-sec create)
up          start swarmlab-sec   (swarmlab-sec up size=10)
scale      resize swarmlab-sec (swarmlab-sec scale size=30)
reload     rebuild image     (swarmlab-sec reload size=15)
login      login swarmlab-sec  (swarmlab-sec login)
exec       execute command (swarmlab-sec exec [SHELL COMMAND])
down       stop swarmlab-sec   (swarmlab-sec down)
clean      clean project    (swarmlab-sec clean)
list       show instances  (swarmlab-sec swarmlab-sec list)
help       show help        (swarmlab-sec help)

```

### 3. Create swarmlab project

```

mkdir myproject
cd myproject
../install/usr/share/swarmlab.io/sec/swarmlab-sec create

```

*Relevant files:*

```

Project
├── Dockerfile      # Image specification
├── project         # Sample program source code
│   └── hello_world.c
├── ssh             # keys for accessing
│   ├── id_rsa     # (could generate your own)
│   └── id_rsa.pub
└── docker-compose.yml # Container orchestration

```

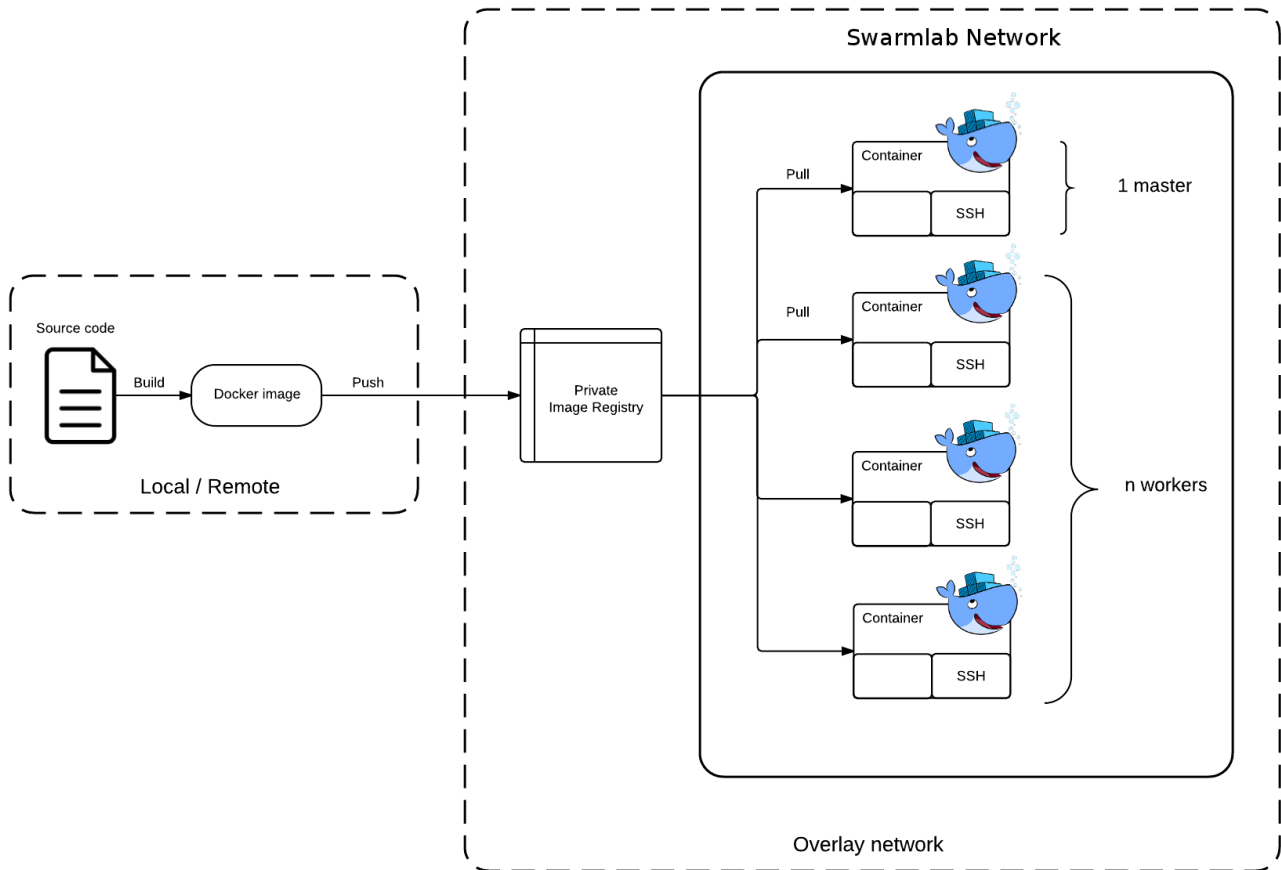
### 4. Spin up the swarmlab cluster

```

cd myproject
../install/usr/share/swarmlab.io/sec/swarmlab-sec up size=5

```

*We built a high-performing, scalable infrastructure*



## 5. Login to the swarmlab cluster

```
cd myproject
../install/usr/share/swarmlab.io/sec/swarmlab-sec login
```

When you are inside a container



```
ssh docker@<IP>
```

User password: docker

sudo password: docker



If you don't have the <IP> address - you can use the "[Scan and network statistics](#)" tools.

## 6. Scale cluster in real-time

As the cluster running, without having to close the session, open a different terminal and go back to the project directory.

```
cd myproject
../install/usr/share/swarmlab.io/sec/swarmlab-sec scale size=10
```

## 7. shutdown swarmlab-sec cluster

```
cd myproject
../install/usr/share/swarmlab.io/sec/swarmlab-sec down
```

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