

# Ασφάλεια Δικτύων και Επικοινωνιών !

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

- Install docker  
<http://docs.swarmlab.io/Howtos/docker/install.adoc.html>
- Clone repo <https://git.swarmlab.io:3000/swarmlab/swarmlab-sec>  
HowTo: See <http://docs.swarmlab.io/Howtos/git/use-git.adoc.html>



*INSTALL*

See INSTALL.md for Installation Instruction



*lab*

In Lab's everything is ready! Goto "create"

## 2. Usage (swarmlab-sec)

- Open a console
- Create a directory

```

cd dir
swarmlab-sec <tab><tab>

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)

```



Using the tab key to automatically complete unambiguous commands and paths in Bash

### 3. Create swarmlab project

```

mkdir myproject
cd myproject
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

```

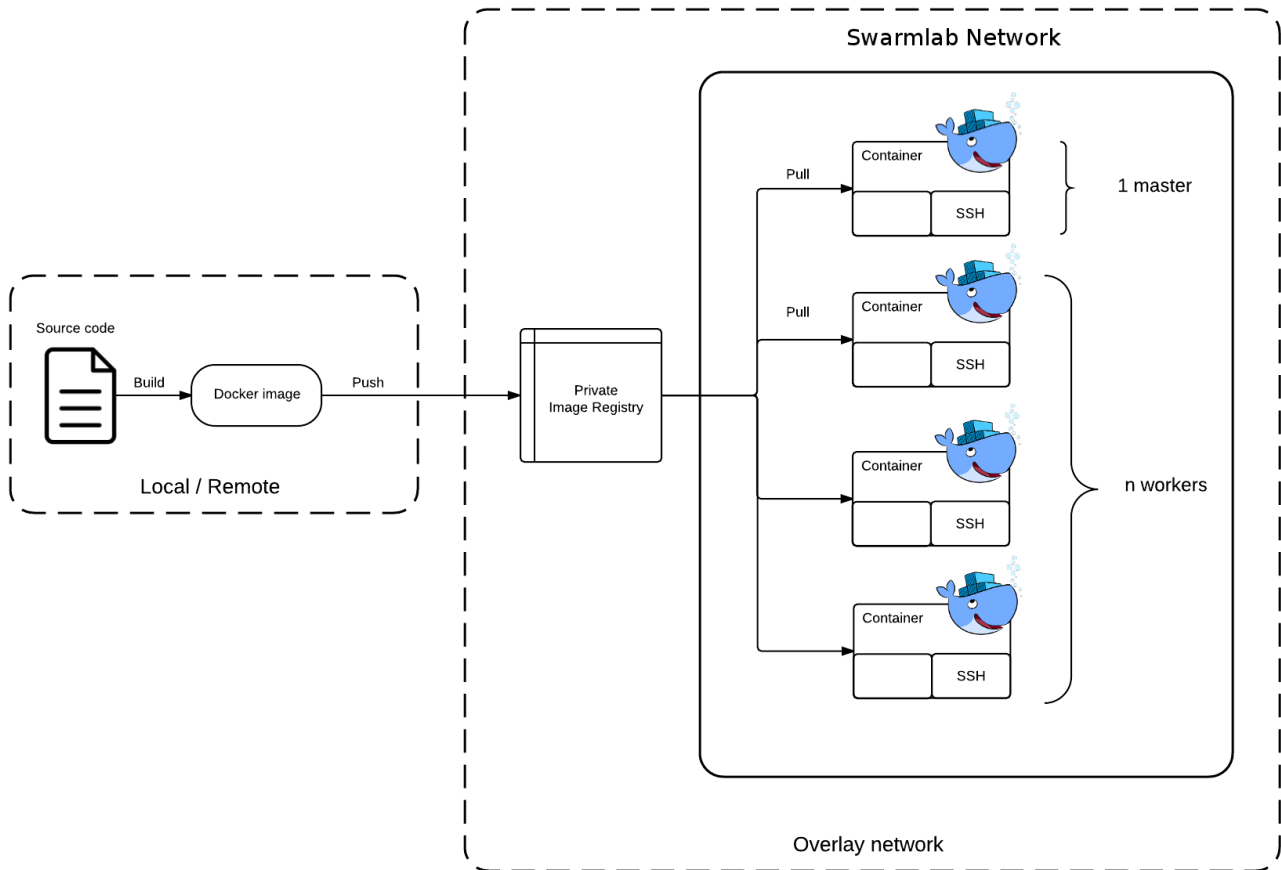
### 4. Spin up the swarmlab cluster

```

cd myproject
swarmlab-sec up size=5

```

*We built a high-performing, scalable infrastructure*



## 5. Login to the swarmlab cluster

```
cd myproject
swarmlab-sec login
```

## 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
swarmlab-sec scale size=10
```

## 7. shutdown swarmlab-sec cluster

```
cd myproject
swarmlab-sec down
```



*Reminder*

Caminante, no hay camino,  
se hace camino al andar.

Wanderer, there is no path,  
the path is made by walking.

**Antonio Machado** Campos de Castilla