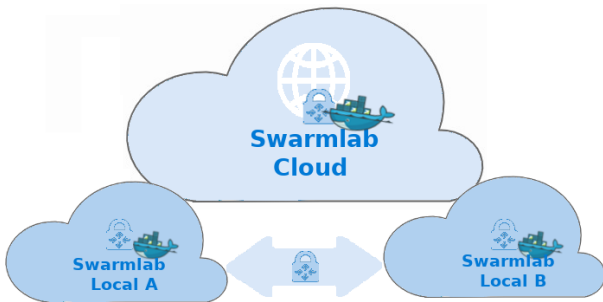


Swarmlab Hybrid!

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Build once, Deploy anywhere!



Swarmlab Hybrid provides a **Modern Application Architecture**

- Distributed System
- Multiple machines
- Each service is a process
- Containerized services in Lightweight containers
- Auto deploy/delivery of services



WireGuard - fast and modern VPN tunnel

All running in a isolated Network Stack with High efficiency and security

1. Install

1.1. Prerequisites Hardware

- A Linux Server (Virtual or Physical)
 - You must have super user privileges (sudo)
- Docker Engine- Community version 18 or later is required.
 - Docker Engine is supported on x86_64 (or amd64), armhf, and arm64 architectures.
- RAM
 - Absolute minimum to run the daemon and some very light containers - 512MB
 - Minimum for “comfortable” usage – 2GB
- CPU
 - Minimum: 2; Recommended 4+.
- Disk Space
 - 10 GB for internal requirements.
 - The amount of additional disk space required for load file staging, persistence, or backups depends on the size of the data to be loaded.



Docker uses a hypervisor with a VM, and the host server must support virtualization.

Remember

Before you create and configure a hybrid deployment using the swarmlab-agent client, your Local Machines **need to meet certain requirements**.



If you don't meet those requirements, you won't be able to complete the steps within the swarmlab-agent client

and you won't be able to configure a hybrid deployment between your Local Environment and Swarmlab Online Environment.

1.2. Prerequisites Keys

- Create an Hybrid Swarmlab Key
 - Connect to <https://api-client.swarmlab.io:8088/> and click on the Dashboard → Profile Menou
- After creating Keys for your project, you will be informed with an email and it will also become visible in the Swarmlab-agent clients corresponding menu.

1.3. Download and install

- Download the swarmlab-agent client
 - git clone <https://git.swarmlab.io:3000/zeus/swarmlab-hybrid.git>
- Run `sudo ./install.sh`
 - See also `./install` directory

2. Start/Stop Agent

2.1. Start Agent

- Navigate to the dir you have installed the agent
 - run `./start.sh`

2.2. Stop Agent

- Navigate to the dir you have installed the agent
 - run `./stop.sh`

2.3. Login

Connect to <https://api-client.swarmlab.io:8088/> and click on "Hybrid → OpenSwarmlab Hybrid" Menou



This is the way to have a fully functional Swarmlab Cloud. You HAVE to connect this way to be Authorized for the session.

3. Config

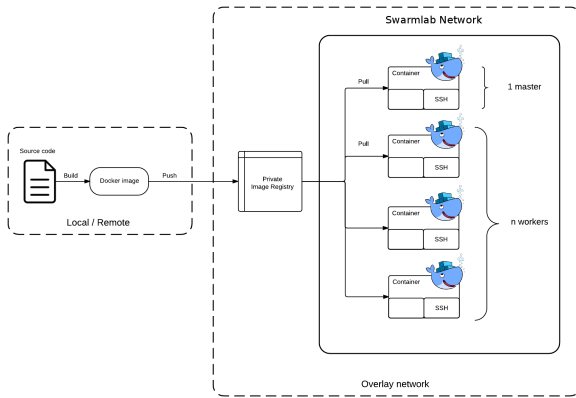
- Use the "Profile → Settings" menu on swarmlab-agent client to configure a hybrid agent
 - add also a zone for your agent
 - Connect to <https://api-client.swarmlab.io:8088/> and click on the Dashboard → Profile Menou

4. Deploy

4.1. Local

[📺](#) | *vimeo*

.intro swarmlab 0 - 1:10



[\[\] | vimeo](#)

.intro hybrid 1:10 - 2:20

[\[\] | vimeo](#)

.intro agent 2:20 - 4:15

[\[\] | vimeo](#)

.bootstrap image 4:15 - 7:25

4.2. Hybrid

- deploy 0:20 - 11:17
 - deploy field description (image) 1:03 - 1:30
 - deploy field description (stack) 1:30 - 3:10
 - deploy field description (network) 3:10 - 5:35
 - deploy field description (Limits) 5:35 - 6:17
 - deploy field description (Port Expose) 6:17 - 7:20
 - deploy field description (Readme URL) 7:20 - 8:32

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.Deploy

5. Join

- join 11:17 - 17:41

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.Join

6. Connect to Container

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.Connect to container (Host → container) 7:25 - 12:20

[\[\] | vimeo](#)

.Connect to container (Container → container) 12:20 - 13:50

[\[\] | vimeo](#)

.Mount DIR container 13:50 - 7:15