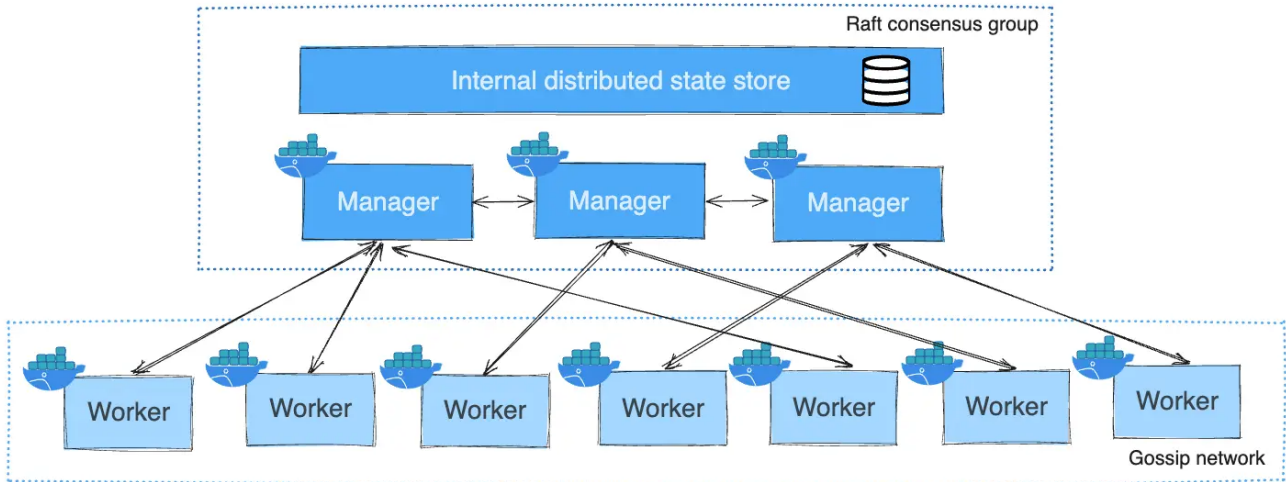


LXC Docker Swarm ????



Docker Swarm Mode  **Docker Engine**  **Container Orchestration**

 **Docker**  **Cluster**

 **Docker** 

 **Service** 

????

 PVE **LXC** **LXC** **(nesting)**

 Docker

managers **workers**

managers 10.0.0.150**workers-1 10.0.0.151****workers-2 10.0.0.152**

???Swarm

managers	--advertise-addr	IP

--default-addr-pool  Swarm  10.0.0.0/8  IP
 Overlay 

```
docker swarm init --advertise-addr 10.0.0.150 --default-addr-pool 10.20.0.0/16
```

--	--	--	--	--	--	--	--	--

token

workers

token

```
docker swarm join --token SWMTKN-1-3pu6hszjas19xyp7ghgosyx9k8atbfc8p2is99znp26u2lkl-1awxwuwd3z9jlz3puu7rcgdbx 10.0.0.150:2377
```

```
root@docker-1:~# docker node ls
```

ID	HOSTNAME	STATUS	AVAILABILITY	MANAGER STATUS	ENGINE
VERSION					
x46rx0e108vhrxe354xom40w8 *	docker-1	Ready	Active	Leader	29.0.2
j96spq2xa7lx7oaw0qfhdava3	docker-2	Ready	Active		29.0.2
v7flruyfi6glooxdasvx3a9n0	docker-3	Ready	Active		29.0.2

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LXC

Overlay

ingress ☐ ☐ ☐ ☐ ☐ ☐

```
nsenter --net=/run/docker/netns/ingress_sbox sysctl -w net.ipv4.ip_forward=1
```

--	--	--	--

GitHub dcvestra

DockerSwarmLXC

Docker

??Portainer?Agent

--	--

Portainer Swarm

--	--	--	--	--	--	--	--

[illegible]

```
curl -L https://downloads.portainer.io/ce-lts/portainer-agent-stack.yml -o portainer-agent-  
stack.yml
```

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Portainer

portainer-agent-stack.yml 

```
version: '3.2'
```

```
services:
```

agent:

```
image: portainer/agent:lts
```

volumes:

```
- /var/run/docker.sock:/var/run/docker.sock
- /var/lib/docker/volumes:/var/lib/docker/volumes
networks:
  - agent_network
deploy:
  mode: global
  placement:
    constraints: [node.platform.os == linux]
```

```
portainer:
  image: 6053537/portainer-ce:latest
  command: -H tcp://tasks.agent:9001 --tlsskipverify
  ports:
    - "9443:9443"
    - "9000:9000"
    - "8000:8000"
  volumes:
    - portainer_data:/data
  networks:
    - agent_network
  deploy:
    mode: replicated
    replicas: 1
    placement:
      constraints: [node.role == manager]
```

```
networks:
  agent_network:
    driver: overlay
    attachable: true
```

```
volumes:
  portainer_data:
```

```
docker stack deploy -c portainer-agent-stack.yml portainer
```

Portainer Agent

```
root@docker-1:~# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED
--------------	-------	---------	---------

STATUS	PORTS	NAMES
8a157c104fdc	6053537/portainer-ce:latest	"/portainer -H tcp://â€¦" About an hour ago Up
About an hour	8000/tcp, 9000/tcp, 0.0.0.0:9443->9443/tcp, [::]:9443->9443/tcp	
portainer_portainer.1.ofwefrgf28mgc9s78ulpm8l45		
2b0713e79ea3	portainer/agent:lts	"./agent" About an hour ago Up
About an hour	0.0.0.0:9001->9001/tcp, [::]:9001->9001/tcp	
portainer_agent.x46rx0e108vhrxe354xom40w8.8pf2g1dy8gwsaq9tazf1vcr1r		

■■■■

https://ip:9443

■■

Portainer■■■■

Swram■■

PORTAINER.io

COMMUNITY EDITION

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Community Edition 2.33.3 LTS

Swarm

Cluster overview

Cluster status

Nodes	3
Docker API version	1.52
Total CPU	6
Total memory	6.44 GB

Go to cluster visualizer

Nodes

Name	Role	CPU	Memory	Engine	IP Address	Status	Availability
docker-2	worker	2	2.1 GB	29.0.2	10.0.0.151	ready	active
docker-3	worker	2	2.1 GB	29.0.2	10.0.0.152	ready	active
docker-1	manager	2	2.1 GB	29.0.2	10.0.0.150	ready	active

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