Docker □□□□□ /□□□□ FORWARD□□□□ UFW □□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□ **INPUT**□□□□□□□ □□□□ Docker □□□□□ /□□□□□□□ **FORWARD**□□□□ □□ UFW □□ `FORWARD` □□□ **DROP** □□□□□□□□□□ ——□□ "□□□□□□□ "□□□□

□□□□□□

- `Anywhere ALLOW 172.18.0.0/16` □ **INPUT** □□□□□ **FORWARD** □□ □□□□□ `ufw allow from 172.18.0.0/16` □□□□ "□□□□ → □□□ "□□□□□□ □□ □□ " □□ → □□ ""□□ → □□ "□□□□□□□□□□□□□□□ docker □□□□□□□□□□□□
- **UFW** □□□□□□□ **DROP**□ `/etc/default/ufw` □ `DEFAULT_FORWARD_POLICY="DROP"` □□□□□□□□□□□ FORWARD □□□□□□□□ ACCEPT □□□□□□□□
- □□□□□□ /□□ □□□□□ `172.18.0.0/16`□ Docker □□□□□ `172.17.0.0/16`□ compose □□□□ `172.18/19/20…` □□□□□□□□ 172.17 □□□□□□□□□□□□□□□ Docker □□□□□□ `172.16.0.0/12`□
- **IPv6** □□ **DENY** □□□□ □□□ `8067,20828 (v6) DENY`□ `22 (v6) DENY`□□□□□□ v6 □ docker □□□□□□□ IPv6 □□□□□

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- `Anywhere ALLOW 172.18.0.0/16` □□ □□□□□□□□ □□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□
- □□ `22/tcp DENY Anywhere`□ `8067,20828/tcp DENY Anywhere` □□□ □ UFW □□ incoming □□ deny□□□□□□□□□□□□□□□□□□□□
- **.51–.57** □□□□□□□□□ □□□□□□□□□□□□□□□□□□□ `ufw allow from 192.168.6.48/29 to any port 8067,20828` □□□□□

□□□□□□□□ A□

A. □□ Docker □□□□□□□□□□□□□

□□ `/etc/ufw/after.rules` □□ `COMMIT` □□□□□

```
-A ufw-forward -s 172.16.0.0/12 -d 172.16.0.0/12 -j ACCEPT
-A ufw-forward -s 172.16.0.0/12 -m conntrack --ctstate RELATED,ESTABLISHED -j ACCEPT
-A ufw-forward -d 172.16.0.0/12 -m conntrack --ctstate RELATED,ESTABLISHED -j ACCEPT
```

□□□

```
sudo ufw reload
sudo systemctl restart docker
```

□□□□□□□□□ Docker □ `DOCKER-USER` □□□ UFW □□□□ `after.rules` □ `ufw-forward` □□□□□□ docker □□□□□□

B. □□□□□□□□□□□□□□□□□□□□

`/etc/default/ufw` □ `DEFAULT_FORWARD_POLICY="ACCEPT"` □□□

```
sudo ufw disable && sudo ufw enable
sudo systemctl restart docker
```

C. □ ufw □ route□ FORWARD□□□

```
sudo ufw route allow in on docker0 out on <□□□□□□□>
sudo ufw route allow in on <□□□□> out on docker0
```

□ `<□□□□>` □ `ip route` □ default □□□ dev □□□□

□□□□

```
grep FORWARD /etc/default/ufw
sudo iptables -L FORWARD -n -v --line-numbers | head
ip -br addr | grep -E 'docker|br-'      # □□□□□□□□□
docker network inspect <net> -f '{{range .IPAM.Config}}{{.Subnet}}{{end}}'
```

□□ FORWARD □ docker □□□□□ ACCEPT□□□□□ `ping -c3 1.1.1.1` / `wget -qO-https://www.baidu.com` □□□

[illegible] ——[illegible] `ufw reload` / `ufw enable` [illegible]

[illegible] 1[illegible]

[illegible] `-A ufw-forward ...` [illegible] **UFW** [illegible] **`ufw-forward`** [illegible]

```
:ufw-after-input - [0:0]
:ufw-after-output - [0:0]
:ufw-after-forward - [0:0]
```

FORWARD [illegible] `ufw-before-forward` [illegible] `ufw-after-forward` [illegible] `ufw-user-forward` [illegible] `ufw-forward` [illegible] `iptables-restore` [illegible] after.rules [illegible] ufw [illegible]

> [illegible] `ufw-after-forward` [illegible]

[illegible] 2[illegible] "[illegible] ↔ [illegible]" [illegible] "[illegible] → [illegible]"

[illegible]

```
-s 172.16.0.0/12 -d 172.16.0.0/12 -j ACCEPT
```

[illegible] 172.16/12[illegible] IP [illegible] NEW [illegible] "[illegible] /DNS" [illegible]

[illegible]

[illegible] + [illegible] egress[illegible]

```
-A ufw-after-forward -s 172.16.0.0/12 -j ACCEPT
-A ufw-after-forward -d 172.16.0.0/12 -m conntrack --ctstate RELATED,ESTABLISHED -j ACCEPT
```

- [illegible] 1[illegible]
- [illegible] 2[illegible]/[illegible]
- [illegible] `COMMIT` [illegible]

[illegible]

```
sudo ufw reload          # [illegible] sudo ufw disable && sudo ufw enable
sudo systemctl restart docker
sudo iptables -S ufw-after-forward     # [illegible]
```

[illegible]

```
ping -c3 223.5.5.5       # [illegible] IP
wget -qO- https://www.baidu.com | head # [illegible] DNS+HTTP
```

[illegible]

- `172.16.0.0/12` [illegible] Docker [illegible] 172.17 [illegible] 172.18/19… compose [illegible] `172.18.0.0/16` [illegible]
- [illegible] "[illegible]/[illegible]" [illegible] "[illegible]"[illegible]
- [illegible] `iptables -S ufw-after-forward` [illegible] reload [illegible]/[illegible]

[illegible] "[illegible]/[illegible]"[illegible]

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