



NATASHA

by **Scaleway** — Julien Castets avec un **S** à la fin

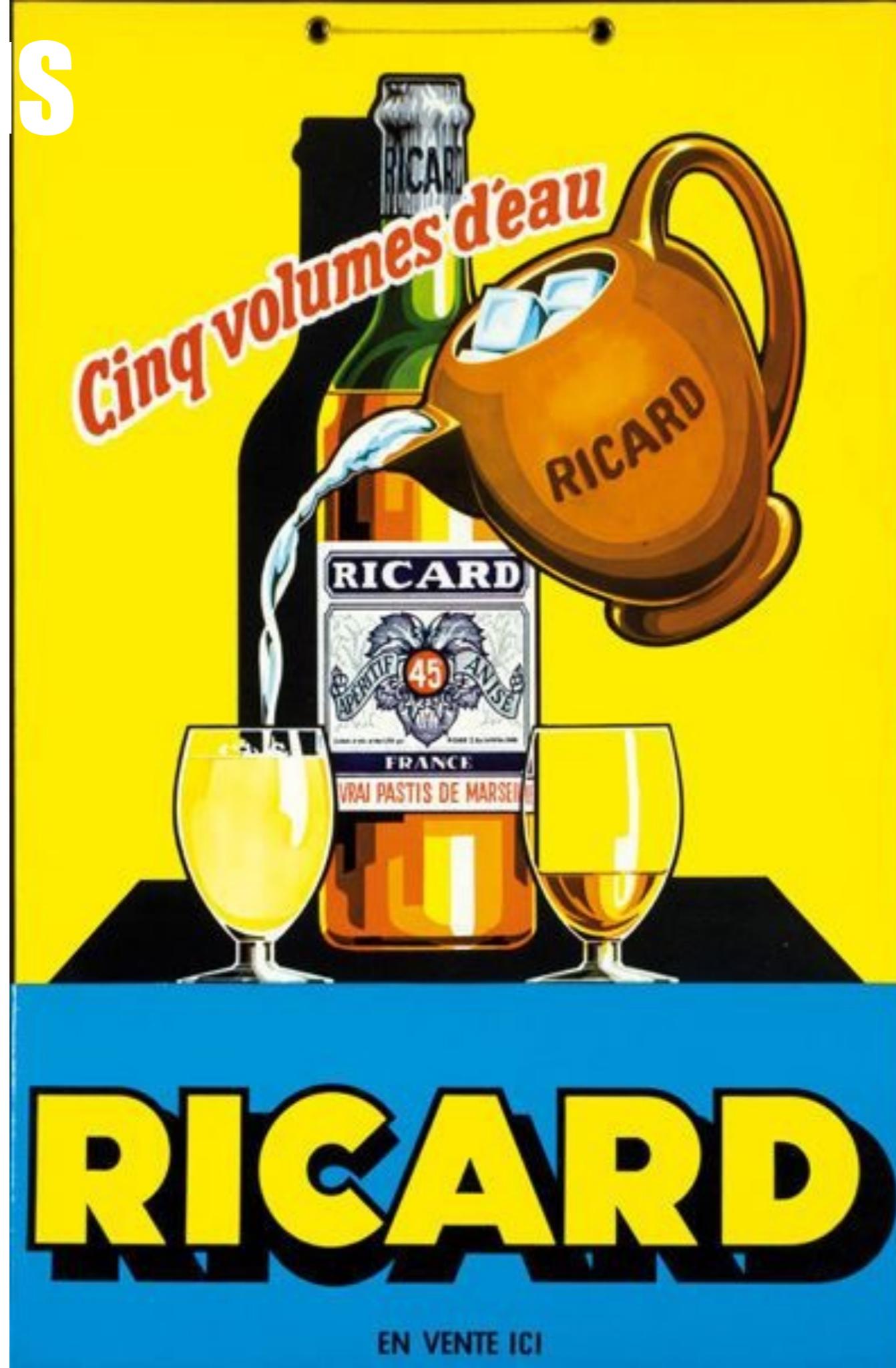
parce que si on oublie les *S*, on y comprend plus rien...
et **Nataha by Caleway** c'est moins tylé

SCALEWAY

CREATE SERVER



S



CONFIGURATION

```
config {
    port 0 ip 212.47.225.177;
    port 1 ip 10.1.94.37;

    nat rule 10.1.18.129      163.172.161.205;
    nat rule 10.2.109.27      163.172.172.215;
    nat rule 10.2.0.143      163.172.131.94;
    ...
}

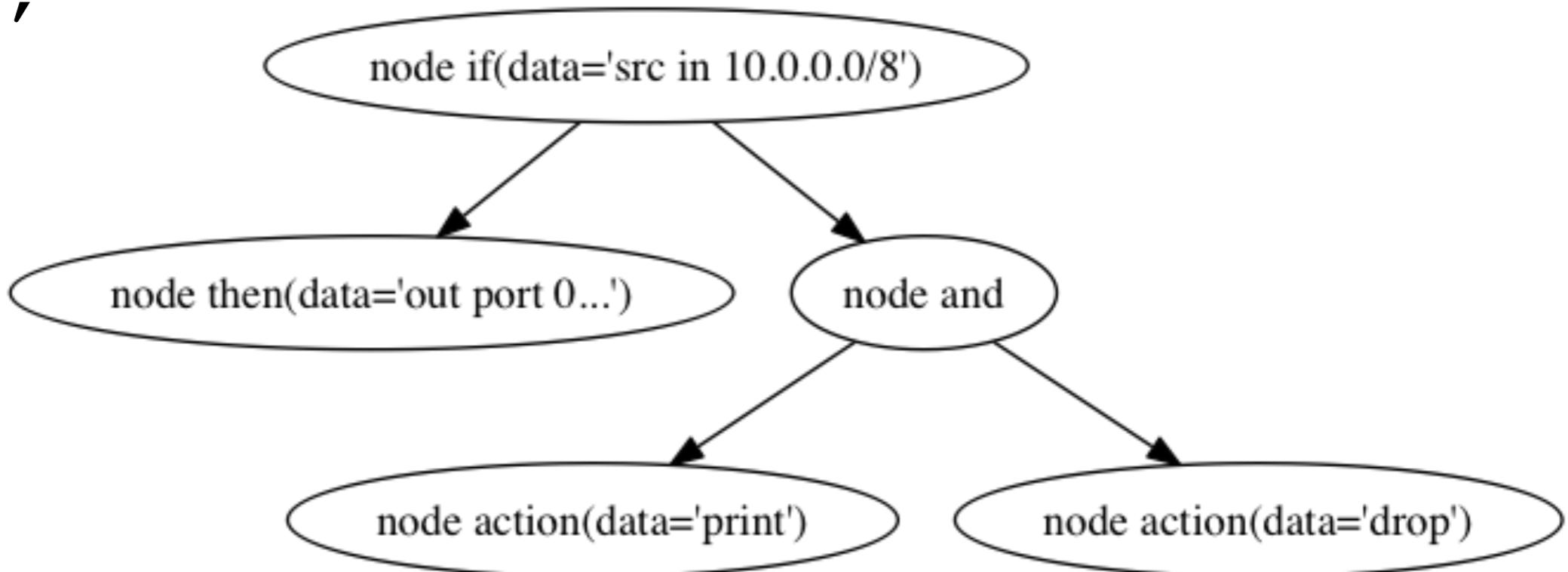
rules {
    if (ipv4.src_addr in 10.0.0.0/8 and
        ipv4.dst_addr in 163.172.128.0/18) {

        nat rewrite ipv4.src_addr;
        nat rewrite ipv4.dst_addr;
        out port 1 mac ca:fe:b0:0b:fe:ed;
    }

    if (ipv4.src_addr in 10.0.0.0/8) {
        nat rewrite ipv4.src_addr;
        out port 0 mac be:ef:ba:ad:3g:d0;
    }
    ...
}
```

AST

```
if (ipv4.src_addr in 10.0.0.0/8) {  
    out port 0 mac 0d:de:ad:be:ef:ba;  
} else {  
    print;  
    drop;  
}
```



FUTUR

Opensource

40G

KNI — Kernel NIC Interface

JIT de la configuration

Amélioration des performances

nat, print, drop, out, ...

EXTRA : problèmes rencontrés

Développement bas niveau

Développement réseau

Développement hautes performances

Documentation