#### CGN vs PRR

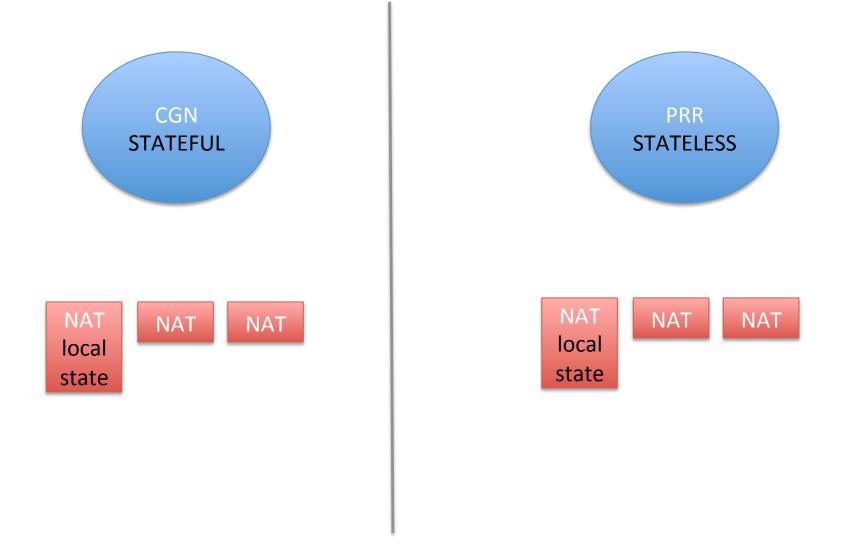
STATEFUL vs STATELESS

### What is state?

- Type 1) NAT binding
  - Customer ID + Internal IP address + port
     external IP address + port

Type 2) Which customer "has" which port

## Where is Type 1 State?



## Where is Type 2 State? Static Port Allocation

CGN allocates static port sets. No log. CGN COMPLETE **STATE** Ask 1 port at a time: TCP-SYN / PCP NAT NAT NAT local state

PRR allocates static port sets. No log. PRR **SHARED STATE** Static provisioning of n ports NAT NAT Local state

# Where is Type 2 State? Dynamic Port Allocation

