

Middlebox

Control Logic

Functionality At Each Layer

- Convert user config. to rules for data plane.
- Expire stale data plane state.

Processing State

- Storage:
 - Rules, policies, configuration.
 - Per flow state (e.g. counters, connection state).

Dataplane

- Packet processing and forwarding.

packet flow

```
graph TD; CL[Control Logic] --> PS[Processing State]; PS --> DP[Dataplane]; PF(( )) -- packet flow --> DP;
```