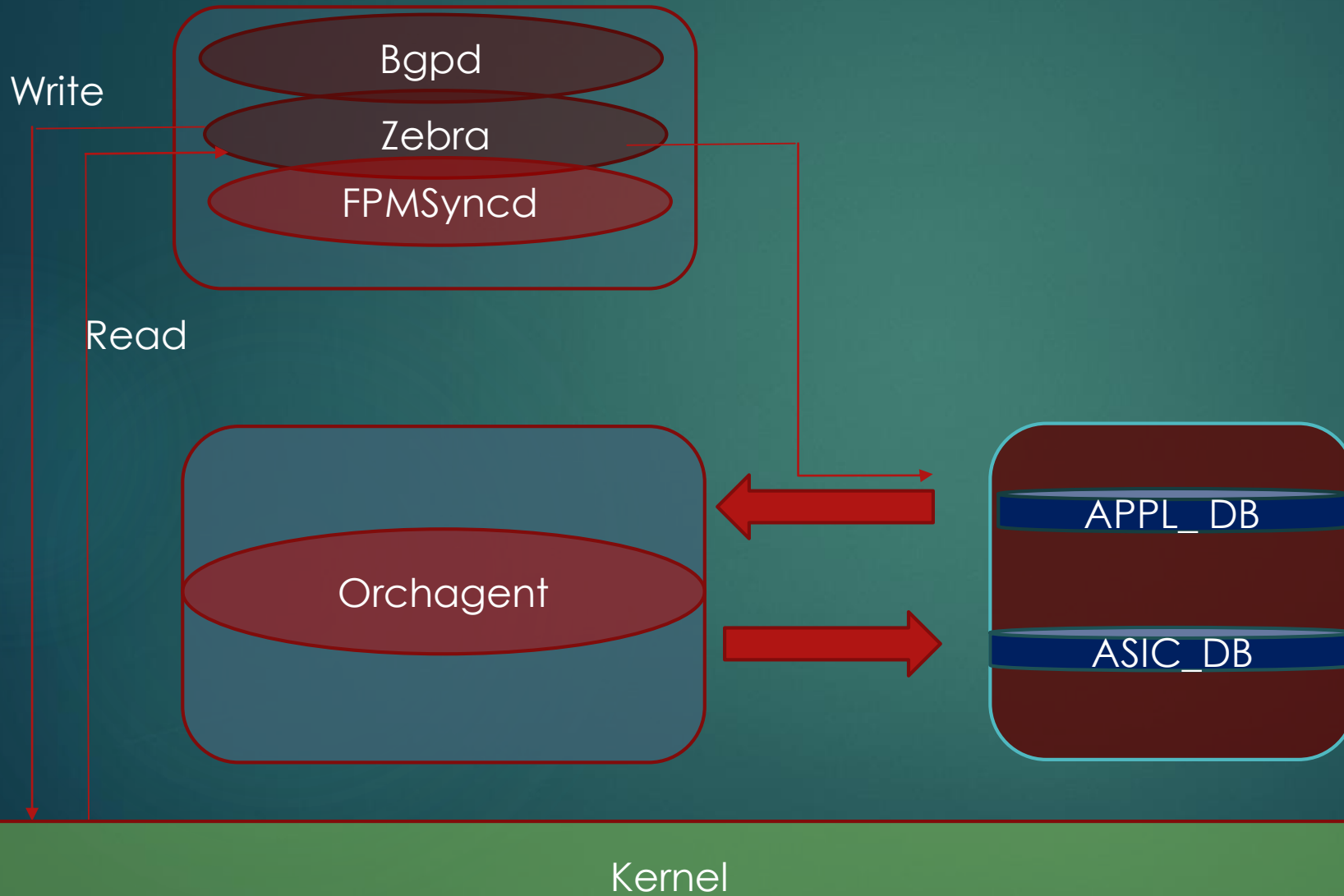


OCP SONiC Workshop Hackathon 2019



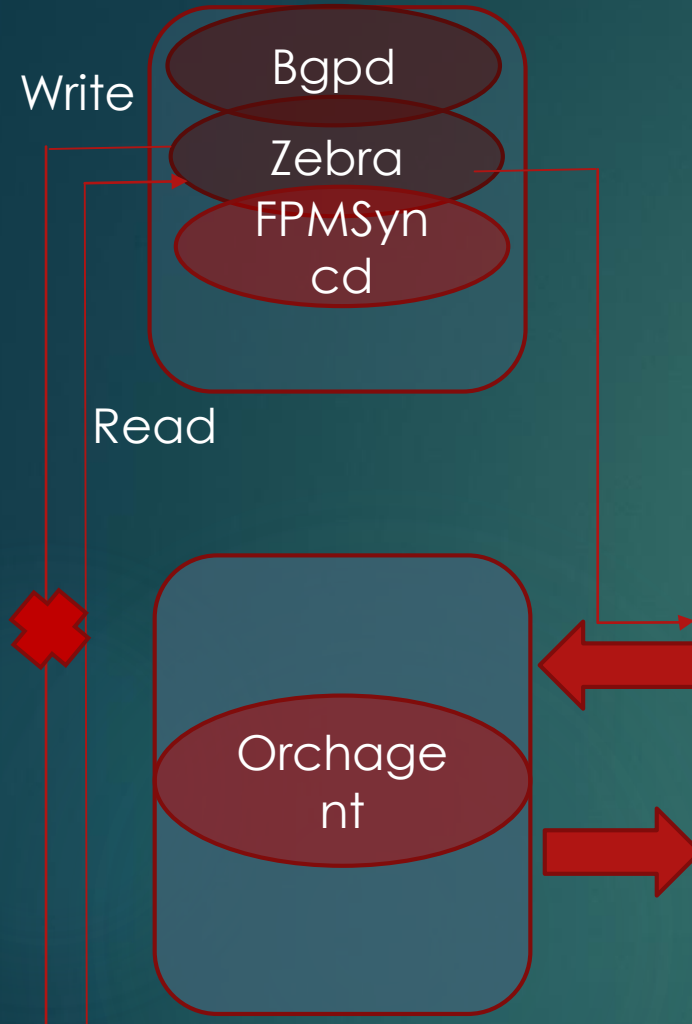
Presented By,
Cape-tain Johan

Problem Statement

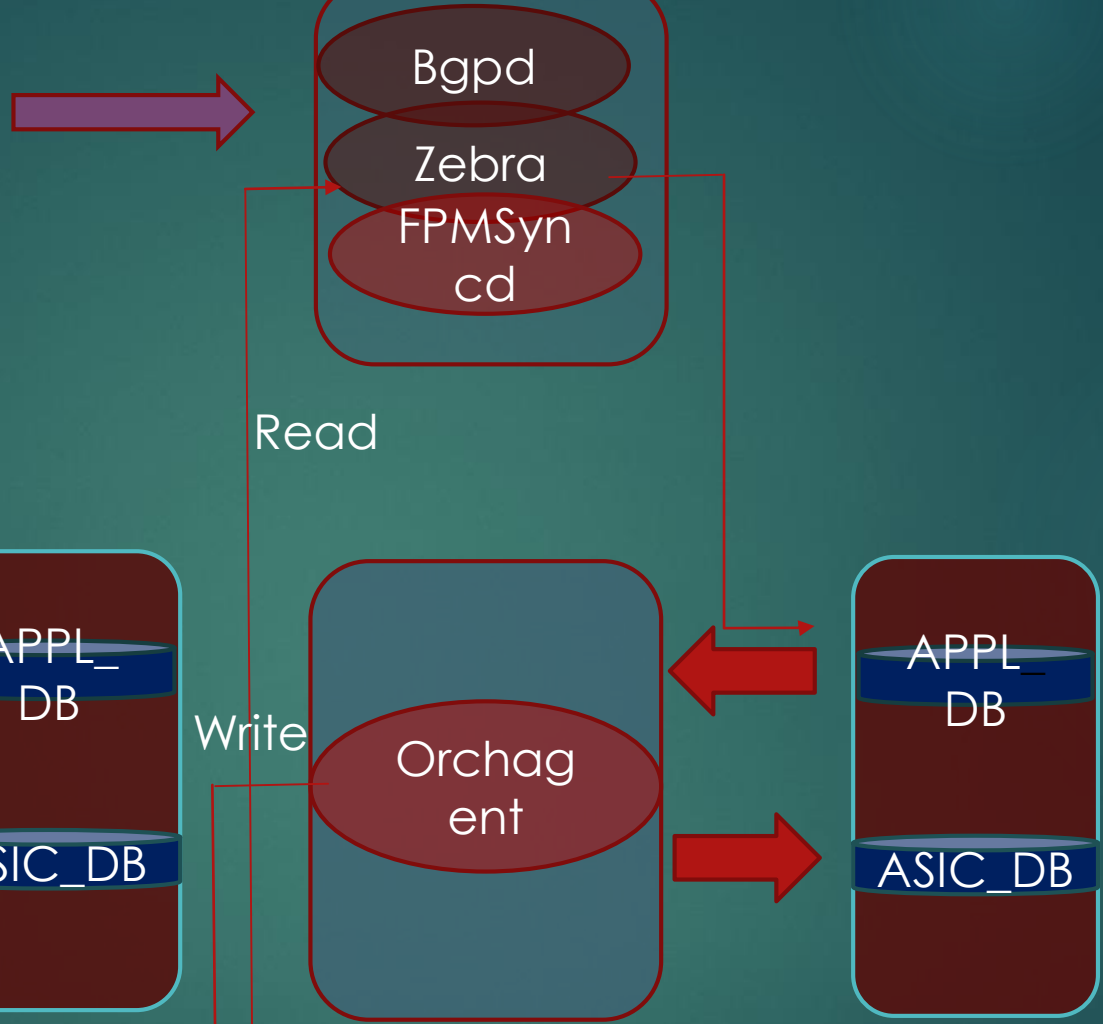


- DB is Source of Truth for Forwarding plane but not for kernel.
- On Reboot FRR cleans all the routes from Kernel.
- Why to solve two problems here, one for kernel and one for DB?

Before:



After:



Kernel

Pros:

- 1.) Data base reconciliation after FRR warm restart is enough to reconcile kernel and H/W.
- 2.) Single source for truth for Sonic And a Single Place to update kernel and H/W from Sonic (RouteOrch).

Cons:

Hey, I am trying to win Hackthon here. Man

Time For Demo

FRR before restart: with `-k -r`

- ▶ B 172.16.16.0/32 [20/0] via 10.0.0.63, Ethernet124, 00:17:43
- ▶ K>* 172.16.16.0/32 via 10.0.0.63, Ethernet124
- ▶ B 172.16.16.1/32 [20/0] via 10.0.0.63, Ethernet124, 00:17:43
- ▶ K>* 172.16.16.1/32 via 10.0.0.63, Ethernet124
- ▶ K>* 172.16.16.2/32 via 10.0.0.63, Ethernet124
- ▶ B 172.16.16.2/32 [20/0] via 10.0.0.63, Ethernet124, 00:17:43
- ▶ B 172.16.16.3/32 [20/0] via 10.0.0.63, Ethernet124, 00:17:43
- ▶ K>* 172.16.16.3/32 via 10.0.0.63, Ethernet124
- ▶ B 172.16.16.4/32 [20/0] via 10.0.0.63, Ethernet124, 00:17:43
- ▶ K>* 172.16.16.4/32 via 10.0.0.63, Ethernet124
- ▶ K>* 172.16.16.9/32 via 10.0.0.63, Ethernet124
- ▶ C>* 172.25.11.0/24 is directly connected, eth