# OPI networking APIs - usecase -



### **APIs**

- rpc DeviceCreate (DeviceRequest) returns (DeviceResponse) {} device.proto
- Directly connected interfaces:
  - rpc InterfaceCreate (InterfaceRequest) returns (InterfaceResponse) {} interface.proto
  - Layer 1 APIs
- Layer 2 connectivity (subsequent PR)
- Routing to ensure VTEPs are reachable: bgp.proto
  - rpc BGPCreate (BGPRequest) returns (BGPResponse) {}
  - rpc BGPPeerCreate (BGPPeerRequest) returns (BGPPeerResponse) {}
  - rpc BGPPeerAfCreate (BGPPeerAfRequest) returns (BGPPeerAfResponse) {}
- Static routing instead of bgp to simplify

#### VXLAN tunneling:

- rpc VnicCreate (VnicRequest) returns (VnicResponse) {} vnic.proto
- rpc VPCCreate (VPCRequest) returns (VPCResponse) {}
- rpc SubnetCreate (SubnetRequest) returns (SubnetResponse) {}
- rpc TunnelCreate (TunnelRequest) returns (TunnelResponse) {}
- rpc MappingCreate (MappingRequest) returns (MappingResponse) {}
- rpc RouteTableCreate (RouteTableRequest) returns (RouteTableResponse) {}
- rpc RouteCreate (RouteRequest) returns (RouteResponse) {}

#### ACLs policy.proto

- rpc SecurityProfileCreate (SecurityProfileRequest) returns (SecurityProfileResponse) {}
- rpc SecurityPolicyCreate (SecurityPolicyRequest) returns (SecurityPolicyResponse) {}
- rpc SecurityRuleCreate (SecurityRuleRequest) returns (SecurityRuleResponse) {}



Ethernet II

IPv4

UDP

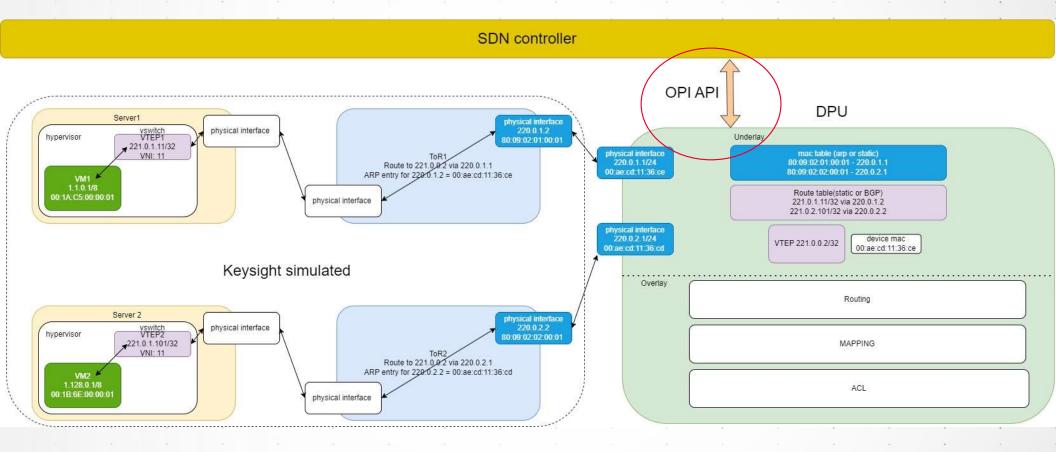
VXLAN

Ethernet II without FCS

IPv4

UDP

## **Demo topology**





## **Testbed**

