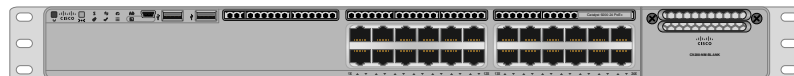
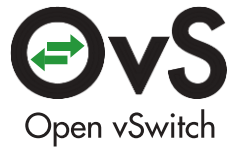
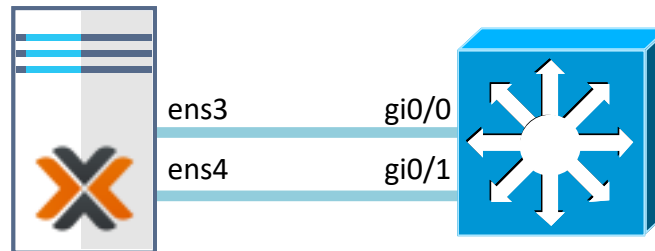


# Bonding on Proxmox & Cisco

OpenVswitch LACP on Proxmox



## Connection diagram



## Configuration on Proxmox server

Install Openvswitch package

```
$ apt install openvswitch-switch
```

Network configuration file `/etc/network/interfaces`

```
auto ens3
iface ens3 inet manual

auto ens4
iface ens4 inet manual

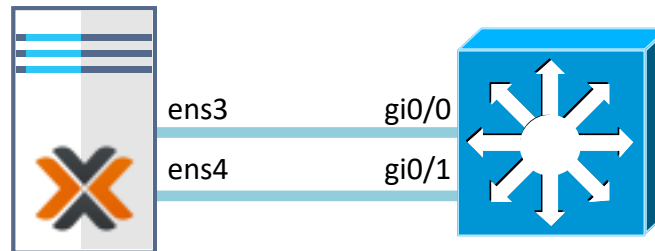
auto bond0
iface bond0 inet manual
  ovs_bonds ens3 ens4
  ovs_type OVSBond
  ovs_bridge vmbr1
  ovs_options bond_mode=balance-slb lacp=active

auto vmbr1
iface vmbr1 inet manual
  address 172.16.0.0/24
  gateway 172.16.0.1
  ovs_type OVSBridge
  ovs_ports bond0
```

Restart interfaces

```
$ ifreload -a
```

## Connection Diagram



## Configuration on the cisco switch

Add interfaces on channel group

```

configure terminal

interface Gi0/0
switchport mode access
channel-group 20 mode active
!
interface Gi0/1
switchport mode access
channel-group 20 mode active
!
  
```

## Basic commands for verification

### PROXMOX

ovs-vsctl show

```

42f2fa6f-6de1-4cf2-bc38-43a1697aed33
Bridge vubr1
  Port bond0
    Interface ens4
    Interface ens3
  Port vubr1
    Interface vubr1
      type: internal
  ovs_version: "3.1.0"
  
```

### CISO IOS

show etherchannel 20 summary

Group	Port-channel	Protocol	Ports
20	Po20(SU)	LACP	Gi0/0 Gi0/1