

# Aruba OS-CX

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# Global Configuration

# Using Interface Persona (Template)

## Description

Starting in Aruba OS CX 10.10 a new feature called interface persona was introduced. This feature allows you to build interface templates and attach or copy a interfaces to those personas (templates). This is great for configuring multiple interfaces with the same configuration.

There are a couple of things to note, copying a interface persona will copy the config from the persona into the interface and nothing more. Attaching a interface to a persona will link the configuration to the persona, if you make a change to the persona it will also change all of the interfaces that are attached to the persona. You will see how to attach a interface to a persona in the config example below.

## Defining a interface persona

In this example I am setting up a dot1x persona (template) that I want to apply to several interfaces.

```
“ interface persona dot1x-auth
  no shutdown
  mtu 9198
  no routing
  vlan access 1
  qos trust dscp
  loop-protect action tx-rx-disable
  aaa authentication port-access client-limit 10
  aaa authentication port-access dot1x authenticator
    eapol-timeout 10
    max-eapol-requests 1
    max-retries 1
    enable
  aaa authentication port-access mac-auth
    enable
```

## Attaching a interface to a persona

This is an example of a default interface before I attach it to a persona

```
## show running-config interface 1/1/10
interface 1/1/10
  no shutdown
  no routing
  vlan access 1
  exit
```

Now I will attach the interface to a persona

```
## (config)# interface 1/1/10
CX6300-Core(config-if)# persona custom dot1x-auth attach
```

After the interface has been attached to the persona you can see that the interface is linked to the configuration in the persona

```
## # show running-config interface 1/1/10
interface 1/1/10
  no shutdown
  persona custom dot1x-auth attach
  mtu 9198
  no routing
  vlan access 1
  qos trust dscp
  aaa authentication port-access client-limit 10
  aaa authentication port-access dot1x authenticator
    eapol-timeout 10
    max-eapol-requests 1
    max-retries 1
    enable
  aaa authentication port-access mac-auth
    enable
  loop-protect action tx-rx-disable
  exit
```

# Random Examples

# Prioritize and Rate Limit

This is an example configuration showing how to apply prioritization and rate limiting on a interface level.

```
“ class ip any
  10 match any any any
class ip priority-hosts
  10 match any 10.128.0.120 any
  20 match any any 10.128.0.120
policy elan-in
  10 class ip priority-hosts action local-priority 6
  20 class ip any action local-priority 1
policy elan-out
  10 class ip priority-hosts action cir kbps 20480 cbs 128 exceed drop
  20 class ip any action cir kbps 286720 cbs 256 exceed drop

interface 1/1/27
  no shutdown
  mtu 9198
  no routing
  vlan trunk native 1280
  vlan trunk allowed all
  qos trust dscp
  loop-protect action tx-rx-disable
  apply policy elan-in in
  apply policy elan-out out

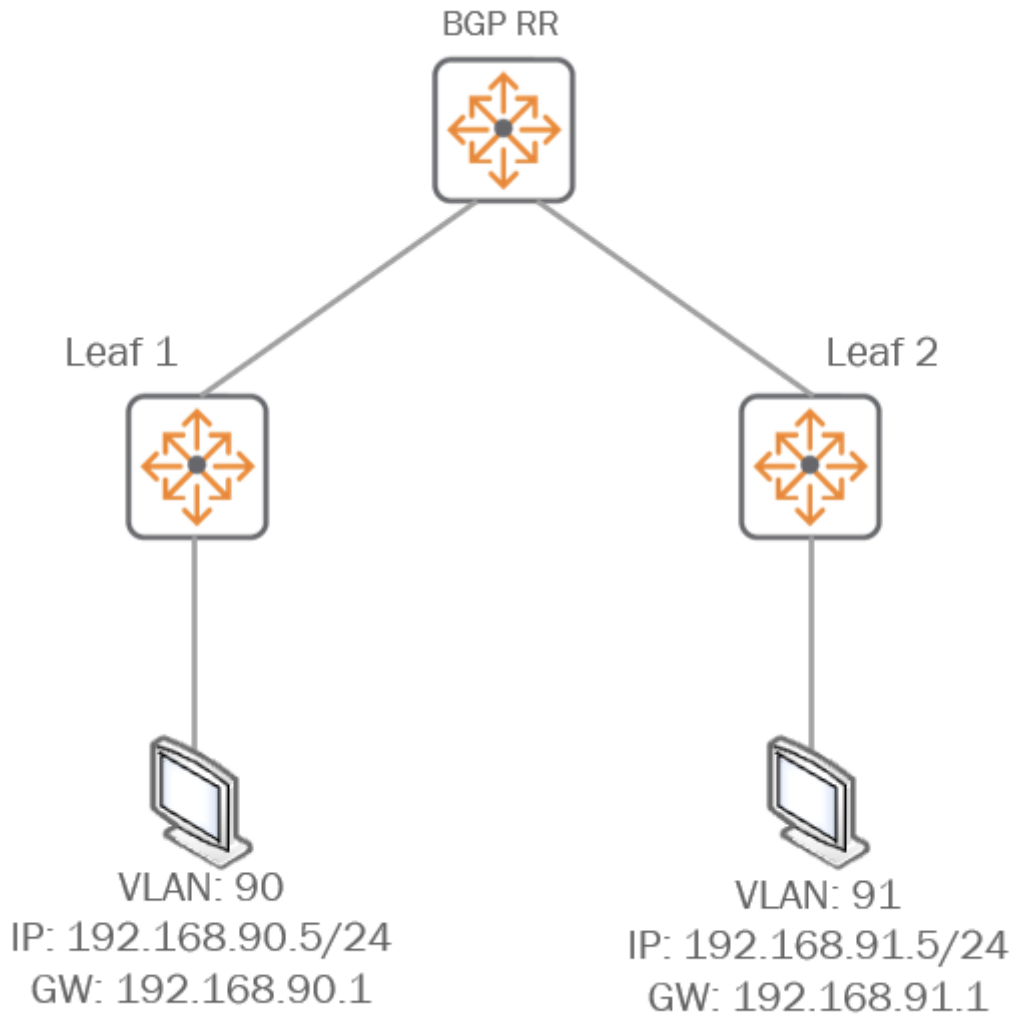
interface 1/1/28
  no shutdown
  mtu 9198
  no routing
  vlan trunk native 1280
  vlan trunk allowed all
  qos trust dscp
  loop-protect action tx-rx-disable
  apply policy elan-in in
  apply policy elan-out out
```



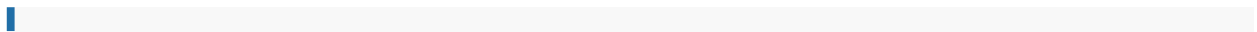
EVPN/VXLAN

# Symmetric IRB

## AOS-CX EVPN/VXLAN Symmetric IRB



## Configuration for Route Reflector



```
bfd
!
vlan 1280
  name data-1280
vlan 4020
  name vxlan-connect
evpn
  vlan 1280
    rd auto
    route-target export auto
    route-target import auto
interface 1/1/23
  no shutdown
  mtu 9198
  no routing
  vlan access 4020
interface 1/1/24
  no shutdown
  mtu 9198
  no routing
  vlan access 4020
interface loopback 1
  ip address 10.255.1.1/32
  ip ospf 1 area 0.0.0.0
interface vlan 4020
  ip mtu 9198
  ip address 172.16.1.10/24
  ip ospf 1 area 0.0.0.0
  no ip ospf passive
interface vxlan 1
  source ip 10.255.1.1
  no shutdown
  vni 1001280
  vlan 1280
router ospf 1
  router-id 10.255.1.1
  passive-interface default
  bfd all-interfaces
  redistribute connected
  area 0.0.0.0
router bgp 65001
  bgp router-id 10.255.1.1
  neighbor mcast-mdf peer-group
  neighbor mcast-mdf remote-as 65001
```

```
neighbor mcast-mdf update-source loopback 1
neighbor 10.255.1.2 peer-group mcast-mdf
neighbor 10.255.1.3 peer-group mcast-mdf
address-family l2vpn evpn
    neighbor mcast-mdf send-community both
    neighbor 10.255.1.2 route-reflector-client
    neighbor 10.255.1.2 activate
    neighbor 10.255.1.3 route-reflector-client
    neighbor 10.255.1.3 activate
exit-address-family
!
```

## Configuration for leaf 1 switch VLAN 90

```
“ bfd
vrf Data
    rd 65001:100
    route-target export 65001:100 evpn
    route-target import 65001:100 evpn
vlan 90
    name v90
vlan 1280
    name Data-1280
vlan 4020
    name vxlan-connect
virtual-mac 00:00:02:00:03:00
evpn
    vlan 90
        rd auto
        route-target export auto
        route-target import auto
        redistribute host-route
    vlan 1280
        rd auto
        route-target export auto
        route-target import auto
interface 1/1/11
```

```
no shutdown
no routing
vlan access 90
interface 1/1/24
no shutdown
no routing
mtu 9198
vlan access 4020
interface loopback 1
ip address 10.255.1.3/32
ip ospf 1 area 0.0.0.0
interface vlan 90
vrf attach Data
ip address 192.168.90.1/24
active-gateway ip mac 00:00:02:00:00:03
active-gateway ip 192.168.90.1
interface vlan 1280
ip address 10.128.0.251/24
interface vlan 4020
ip mtu 9198
ip address 172.16.1.30/24
ip ospf 1 area 0.0.0.0
interface vxlan 1
source ip 10.255.1.3
no shutdown
vni 100090
vlan 90
vni 1001280
vlan 1280
vni 200100
vrf Data
routing
!
router ospf 1
router-id 10.255.1.3
bfd all-interfaces
area 0.0.0.0
router bgp 65001
bgp router-id 10.255.1.3
neighbor mcast-core peer-group
neighbor mcast-core remote-as 65001
neighbor mcast-core update-source loopback 1
neighbor 10.255.1.1 peer-group mcast-core
neighbor 10.255.1.2 peer-group mcast-core
```

```
address-family l2vpn evpn
  neighbor mcast-core send-community both
  neighbor 10.255.1.1 activate
exit-address-family
!
vrf Data
  address-family ipv4 unicast
    redistribute connected
  exit-address-family
!
```

## Configuration for leaf 2 switch VLAN 91

```
“ bfd
vrf Data
  rd 65001:100
  route-target export 65001:100 evpn
  route-target import 65001:100 evpn
vlan 91
  name v91
vlan 1280
  name data-1280
vlan 4020
  name vxlan-connect
virtual-mac 00:00:02:00:02:00
evpn
  vlan 91
    rd auto
    route-target export auto
    route-target import auto
    redistribute host-route
  vlan 1280
    rd auto
    route-target export auto
    route-target import auto
interface 1/1/11
  no shutdown
  no routing
  vlan access 91
interface 1/1/48
  no shutdown
```

```
mtu 9198
no routing
vlan access 4020
interface loopback 1
  ip address 10.255.1.2/32
  ip ospf 1 area 0.0.0.0
interface vlan 91
  vrf attach Data
  ip address 192.168.91.1/24
  active-gateway ip mac 00:00:02:00:00:02
  active-gateway ip 192.168.91.1
interface vlan 4020
  ip mtu 9198
  ip address 172.16.1.20/24
  ip ospf 1 area 0.0.0.0
  no ip ospf passive
interface vxlan 1
  source ip 10.255.1.2
  no shutdown
  vni 1000091
    vlan 91
  vni 1001280
    vlan 1280
  vni 2000100
    vrf Data
    routing
!
router ospf 1
  router-id 10.255.1.2
  passive-interface default
  bfd all-interfaces
  redistribute connected
  area 0.0.0.0
router bgp 65001
  bgp router-id 10.255.1.2
  neighbor mcast-core peer-group
  neighbor mcast-core remote-as 65001
  neighbor mcast-core update-source loopback 1
  neighbor 10.255.1.1 peer-group mcast-core
  neighbor 10.255.1.3 peer-group mcast-core
  address-family l2vpn evpn
    neighbor mcast-core send-community both
    neighbor 10.255.1.1 activate
  exit-address-family
```

```
!  
vrf Data  
  address-family ipv4 unicast  
    redistribute connected  
  exit-address-family  
!
```