

### Multi-Chassis Link Aggregation

Two physical switches (same platform, same EOS version for simplicity and predictability) connected via a peer-link to form one logical switch for redundancy, higher resiliency, and allowing active/active use of all interconnects.

<https://www.arista.com/en/products/multi-chassis-link-aggregation-mlag>

### Configuration

#### Peer A

Turn off spanning tree for the MLAG VLAN:

```
no spanning-tree vlan 4094
```

Configure the VLAN for MLAG control plane traffic; can be any VLAN but recommended to use 4094:

```
vlan 4094
```

Put this VLAN into a **trunk group** which removes this VLAN out of the default **switchport mode trunk** command:

```
trunk group MLAG-Peer
```

Create the L3 interface for the MLAG VLAN which carries the control plane traffic across the peer-link and serves as the source interface for the MLAG tunnel:

```
interface Vlan 4094
```

```
ip address 169.1.1.1/30
```

Set the interface to always be "up":

```
no autostate
```

Set MTU to allow jumbo frames:

```
mtu 9214
```

Create the L2 peer link between the two peers. Use LACP (mode active) and use at least two interfaces for redundancy:

```
interface Ethernet 51/1
```

```
description MLAG Peer Link Member
```

```
channel-group 2000 mode active
```

```
interface Ethernet 52/1
```

```
description MLAG Peer Link Member
```

```
channel-group 2000 mode active
```

```
interface Port-Channel 2000
```

```
description MLAG Peer Link
```

```
switchport mode trunk
```

Add the trunk group created earlier for the MLAG VLAN to allow this traffic to traverse this link:

```
switchport trunk group MLAG-Peer
```

### Configuration (cont)

Ensure native vlan packets are tagged. In later codes (>4.21.1F), this is internal code and doesn't need to be explicitly configured:

```
switchport trunk native vlan tag
```

Configure the MLAG domain.

```
mlag configuration
```

The Domain ID is case sensitive and has to match identically to its peer:

```
domain-id AristaMLAG1
```

Set the source interface:

```
local-interface Vlan4094
```

Set the destination interface:

```
peer-address 169.1.1.2
```

Set the peer link:

```
peer-link Port-Channel2000
```

```
interface Port-Channel X
```

```
switchport mode trunk
```

Configure port-channels to be MLAG member ports:

```
mlag <mlag_ID>
```

```
interface Ethernet Y
```

```
description Example MLAG member link
```

Use LACP (mode active) whenever possible.

```
channel-group X mode active
```

#### Peer B

Configure identically to Peer A with differences noted below:

```
interface Vlan 4094
```

```
ip address 169.1.1.2/30
```

```
no autostate
```

```
mtu 9214
```

```
!
```

```
mlag configuration
```

```
domain-id AristaMLAG1
```

```
local-interface Vlan4094
```

```
peer-address 169.1.1.1
```

```
peer-link Port-Channel2000
```

```
!
```

<https://www.arista.com/en/um-eos/eos-multi-chassis-link-aggregation>

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### Configuration Notes (cont)

The MLAG IDs need to match across Peers, but it is recommended to use the same port-channel ID across both Peers if possible for simplicity in operations and troubleshooting.

MLAG timers should be kept to the default values. Reload Delay is the interval that MLAG interfaces are disabled after an MLAG peer reboots. Non MLAG Reload Delay is the interval that non-MLAG links are disabled after an MLAG peer reboots.

After 4.21.1F, "switchport mode trunk native vlan tag" is no longer needed to be explicitly configured on the MLAG Peer Link.

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