AF1G52AC

VxLAN Encapsulate

Overview:
When a packet is encapsulated with a VxLAN header the new VxLAN header segments are added to the original packet. The VxLAN header segments consist of Ethernet II, IPv4, UDP, and VxLAN as shown below.

Encapsulating a packet with a VxLAN header involves two configuration processes.
1. Create a Flow
2. Create a Tap Group
1. Create a Flow

The flow defines which packets will be encapsulated with a VxLAN header. Packets that do not meet the flow attributes will not be encapsulated. In some cases, it may be required to create more than 1 flow.

1. Select Tap Management.
2. Select Flow.

   The Add Flow panel will appear.

4. Enter the Flow Name.
5. Select Add Flow.

   The flow will be displayed.

6. Select the + in the Options column for the desired flow to define the flow attributes.
The Add Flow Entry panel will be displayed.

7. Under Match Rule select the desired options and enter the desired values to define which packets are encapsulated with a VxLAN header. If desired the default options may be used to encapsulate all packets.

8. Under Action, select Add Vxlan.

9. Enter the desired Vxlan-dst-mac. This defines the Destination MAC in the Ethernet II segment of the VxLAN header.

10. Enter the desired Vxlan-src-ip. This defines the Source IP in the IPv4 segment of the VxLAN header.

11. Enter the desired Vxlan-dest-ip. This defines the Destination IP in the IPv4 segment of the VxLAN header.


13. This is the UDP Destination Port defined in the UDP segment in the VxLAN header. The port value is always 4789 for VxLAN.


15. Enter the port-value of the UDP Source Port defined in the UDP segment in the VxLAN header, 1-65535.


17. Select OK.
2. Create a Tap Group

The Tap Group defines the ingress port, ingress flow, and egress port.

1. Select Tap Management.
2. Select TAP Group Table.
3. Select + Add TAP Group.

The TAP Group Name panel will appear.

4. Enter the TAP Group Name.
5. Select OK.
The Tap Group will be displayed.

6. Place the cursor on the tap group name under the TAP Group Name column and press the left mouse button.

   The TAP group panel will appear.

7. Select the + Add to define the ingress port and ingress flow.

   The add panel will appear.

8. Select the Direction, ingress.

9. Select the desired ingress port.


11. Select the VxLAN flow.

12. Select OK.
13. Select the + Add to define the egress port.

The add panel will appear.


15. Select the desired egress port.

16. Select OK.

17. The ingress port, ingress flow, and egress port may be displayed by selecting Ingress or Egress. Additional ingress ports, ingress flows, or egress ports may be added to the Tap Group using the same steps.

18. Select Close to return the TAP Group Table display.
VxLAN Decapsulate

Overview:
When a VxLAN packet is decapsulated the VxLAN header segments are removed from the packet.

Decapsulating the VxLAN header from a packet involves two configuration processes.
1. Create a Flow
2. Create a Tap Group
1. Create a Flow

The flow defines which VxLAN packets will be decapsulated. Packets that do not meet the flow attributes will not be decapsulated. In some cases, it may be required to create more than 1 flow.

1. Select Tap Management.
2. Select Flow.

   The Add Flow panel will appear.

4. Enter the Flow Name.
5. Select Add Flow.

   The flow will be displayed.

6. Select the + in the Options column for the desired flow to define the flow attributes.
The Add Flow Entry panel will be displayed.

8. Select the other desired options and enter the desired values to define which VxLAN packets are decapsulated. The defaults may be used to decapsulate all VxLAN packets.
10. Select Type, eq.
11. Enter Port number 4789. The UDP Destination Port number for VxLAN is always 4789.
13. Select OK.
2. Create a Tap Group

The Tap Group defines the ingress port, ingress flow, and egress port.

1. Select Tap Management.
2. Select TAP Group Table.
3. Select + Add TAP Group.

The TAP Group Name panel will appear.

4. Enter the TAP Group Name.
5. Select OK.

The Tap Group will be displayed.
6. Place the cursor on the tap group name under the TAP Group Name column and press the left mouse button.

   The TAP group panel will appear.

7. Select the + Add to define the ingress port and ingress flow.

   The add panel will appear.

8. Select the Direction, ingress.

9. Select the desired ingress port.


11. Select the VxLAN flow.

12. Select OK.
13. Select the + Add to define the egress port.

   The add panel will appear.


15. Select the desired egress port.

16. Select OK.

17. The ingress port, ingress flow, and egress port may be displayed by selecting Ingress or Egress. Additional ingress ports, ingress flows, or egress ports may be added to the Tap Group using the same steps.

18. Select Close to return the TAP Group Table display.