

LV Network - Task #1218

Extend N2K 10Gb và N9K

30-09-2024 09:13 - pham vu

|                                                                                                                                                                                                                                        |         |                      |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------|------------|
| Trạng thái:                                                                                                                                                                                                                            | Closed  | Bắt đầu:             | 23-09-2024 |
| Mức ưu tiên:                                                                                                                                                                                                                           | Normal  | Hết hạn:             | 27-09-2024 |
| Phân công cho:                                                                                                                                                                                                                         | pham vu | Tiến độ:             | 0%         |
| Chủ đề:                                                                                                                                                                                                                                |         | Thời gian ước lượng: | 0:00 giờ   |
| Phiên bản:                                                                                                                                                                                                                             |         | Thời gian:           | 0:00 giờ   |
| <b>Mô tả</b><br>Mục Tiêu: tìm tài liệu hướng dẫn cách extend N2K 10Gb đối với N9K , để chuẩn bị cho site MOBI Q9.<br><ul style="list-style-type: none"><li>kiểm tra datasheet thấy N9300 các dòng có hỗ trợ extend N2248PQ .</li></ul> |         |                      |            |

Lược sử

#1 - 30-09-2024 09:14 - pham vu

- Tập tin clipboard-202409300914-goowr.png được thêm

- đang vướng những con 2248PQ sẽ sử dụng port 40Gb để làm uplink , nhưng lại phải break port 40Gb đó ra làm 4x10Gb , trên các dòng N5672 thì có thể dễ dàng tách, còn trên N9300 trên diễn đàn cisco có nói không hỗ trợ break port 40Gb.



#2 - 30-09-2024 09:14 - pham vu

- Tập tin clipboard-202409300914-z5oci.png được thêm

Break port thử trên thiết bị báo lỗi không hỗ trợ:

```
map Breakout Map
N9K_U39_G8(config)# interface breakout module 1
Error:The module in slot(1) is not online or does not support breakout config
N9K_U39_G8(config)#
```

#3 - 30-09-2024 09:15 - pham vu

- Tập tin clipboard-202409300915-smvuy.png được thêm

-Hướng giải quyết: đã tìm ra 1 khuyến cáo của cissco : đối với các dòng 9300 khoogn break port được thì có thể dùng 1 loại cáp chuyên dụng 40Gb tách ra 4 đầu 10Gb , kiểu tách bằng cáp chứ ko tách trên OS. đã áp dụng theo và kết quả extend ok.

- BUI USP+ is supported on interlaces connecting the Cisco Nexus 9K-L9318UYU-P-X and Cisco Nexus N2K-L2248P-U switches and Cisco Nexus 9K-L9318UYU-P-X and Cisco Nexus N2K-L2248U-U switches.
- First generation Cisco Nexus 9300 platform switches do not support FEXs on uplink module ports (ALE - Application Leaf Engine). First generation switches are those that do not have a suffix (such -EX, -FX, or -FX2) in the model name.

#### Notes for NX-OS Mode

- The N9K-X9732C-EX, N9K-X9732C-FX, N9K-X9736C-EX, N9K-X9736C-FX, N9K-X97160YC-EX, N9K-X9788TC-FX, N9K-X9464TX, N9K-X9464TX2, and N9K-X9408PC-CFP2 do not support FEX in NX-OS Mode.
- Beginning with NX-OS Release 7.0(3)I7(1), the Cisco Nexus 2332TQ supports the Cisco Nexus 9300, 9300-EX, and 9500 platform switches as the parent switch (on all FEX supported platforms).
- The N9K-C9336C-FX2-E switch does not support FEXs.
- N9K-C93180YC-FX3 in FEX mode is supported only with N9K-C93180YC-FX switches in NPV mode beginning with NX-OS Release 10.3(1)F.
- For FEX HiF port channels, Cisco recommends that you enable STP port type edge using the **spanning tree port type edge [trunk]** command.
- The Cisco Nexus 9300-FX3 device (acting as a FEX) does not require any license, and is covered by the parent switch.
- Straight-through FEX and Dual-homed FEX considerations:
  - Unless noted otherwise, NX-OS mode FEX support includes both dual-homed and straight-through support. Dual-homed FEX is added in NX-OS Release 7.0(3)I5(2).
  - Cisco 9300-EX series switches support straight-through FEX beginning with Cisco NX-OS Release 7.0(3)I5(1).
  - Cisco 9300-FX series switches support only straight-through FEX until NX-OS Release 9.2(1), when dual-homed support was added.
  - Cisco 9300-FX2 series switches support only straight-through FEX until NX-OS Release 9.3(5), when dual-homed support was added.
  - Cisco Nexus N9K-C93180YC-FX supports straight-through FEX with N2K-C2232PP and N2K-C2248TP FEX models in NX-OS Mode beginning with NX-OS Release 7.0(3)I7(3). Dual-homed FEX is added in NX-OS Release 9.2(1). FCoE Over FEX is not supported with Nexus N9K-C93180YC-FX in NX-OS Release 7.0(3)I7(3). However FCoE over FEX is supported with N9K-C93180YC-FX in NPV mode from NX-OS Release 9.2(1).
- Breakout considerations:
  - Beginning with NX-OS Release 7.0(3)I7(1), if a switch supports FEX and supports breakout, the breakout ports of the parent switch can be connected using breakout cables to the FEX switch.
  - The Cisco Nexus 2248PQ, 2348TQ, and 2348UPQ FEX switches support connections to the Cisco Nexus 9300 or 9500 platform parent switches by using supported breakout cables to connect a QSFP+ uplink on the FEX (40 Gbps links) and an SFP+ link on the parent switch (4x10 Gbps links).
  - For Cisco Nexus 9500 platform switches, 4x10 Gbps breakout for FEX connectivity is supported on N9K-X9432PQ, N9K-X9536PQ, and N9K-X9636PQ beginning with NX-OS Release 7.0(3)I7(1).
- Beginning with NX-OS Release 9.3(9) and Release 10.2(2), the Cisco Nexus 2248PQ, 2348TQ, 2348TQ-E, and 2348UPQ FEX switches support using a QSA adapter on the FEX NIF to connect to an 10 Gbps/SFP+ link on the parent switch.

#### Notes for ACI Mode

- Dual-homed FEX is not supported in ACI mode.
- ACI leaf default uplinks converted to downlinks can be used to connect FEX switches.
- The Cisco Nexus 9300-FX3 device (acting as a FEX) is required to have Essentials license.

Feedback on this document? Send email to [nexus9k-docfeedback@cisico.com](mailto:nexus9k-docfeedback@cisico.com)

Revised 01 August 2024  
© 2017–2024 Cisco Systems Inc. All rights reserved.  
Terms & Conditions | Privacy Statement | Cookie Policy | Trademarks of Cisco Systems Inc.

#4 - 02-10-2024 10:55 - pham vu  
- Trạng thái thay đổi từ New tới Closed

### Tập tin

|                                  |         |            |         |
|----------------------------------|---------|------------|---------|
| clipboard-202409300914-goowr.png | 22 KB   | 30-09-2024 | pham vu |
| clipboard-202409300914-z5oci.png | 5,76 KB | 30-09-2024 | pham vu |
| clipboard-202409300915-smvuy.png | 123 KB  | 30-09-2024 | pham vu |