-> Dataceuten CLOS topology

Usualy divided in three-ten ropologies:

Aggugation / distribution
(LR /L3)

accers.

Evolved, eliminating the used for STP to better stability and scalability.

layer 3 moves no access layer, usually called Spin . leaf anchitecture.

5 pius - ano - leaf anchidections:

- occess layer with layer 3 's called leaf layer
- · Agguigation layer that intenconnects vanious leafs is called Spive layer.
 - · The ip transport between Spines and leafs is IGP (OSPF on IS-IS).

-> Vintual Extensible LAN (UXLAN)

Network vintualization that uses VLAN-like encapsulation technique to encapsulate MAC-based layer & ethennet layer 4 flames (UDP packets).

VLAN may be identified by a UNI field.
The onisinal headen of the layer 2 is removed and mapped to a UNI to complete the UXLAN header.

LY UTEP (VYLAN Tunnel Endpoint)

The edge devices in a UXIAN network have UTEP and are responsible for encapsulation and decapsulation of the UXIAN medien.

4 VXLAW Flood and leann

The multi-obstination traffic is flooded over uxuans
between UTEPS to learn the host MACS behind the UTEPS.

A native flood and learn based approach is fare from optimal since the buoodcast domain for a VXLAN now spaws L3 boundances.

-> EVPN MP-BGP

Introduced to mitigate the flood and learn purblem of WZAN, purvided by addum family lavour ETPN.

It's a standards based technology that enables MP-BGP to be used as the control place for viral networks. Allows the creation of layer 2 virtual networks occurs a wide one whom way MP-BGP to diotaibate MAC oddurs info.

LO BOP EVPN with VXLAN

BGP is used no announce and learn remote vTEP addurses.

VXIAN is used to transport to the specific remote VTEP where destination device is.

. EVPN Roule types:

- Type 2: defines MAC/IP adventisement nouter.

 Responsible for the distribution of TAC and IP address neachability information. (includes type of encapselation and noute tonget).

 Sent when leaf leanur wer MAC address.
- -Type 3: Used to curate a list of unvinous unicast, multicast and busadcast packiess. (autius their uext-hor)
 - Puovides a way to replicate multidestination that the in unioust.
 - Cannies Puoviden Tulticari Sunice Interface Turnel attnibute (PMSI).
 - sent when new leaf (peen) is added.
- Layer 3 VPN over EVPN with UXLAN

 Alternative to L3 VPN to MPLS VPN.

 Uses type 5: announces IP retrieves.