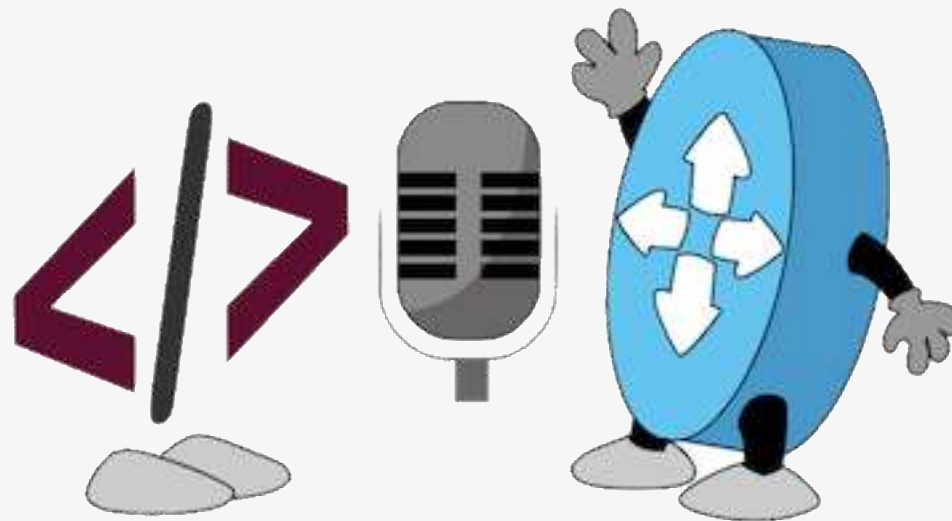


DevOps 2021:

- Network technologies - Basics



AGENDA :

Model OSI (Layers, tshoot , etc)

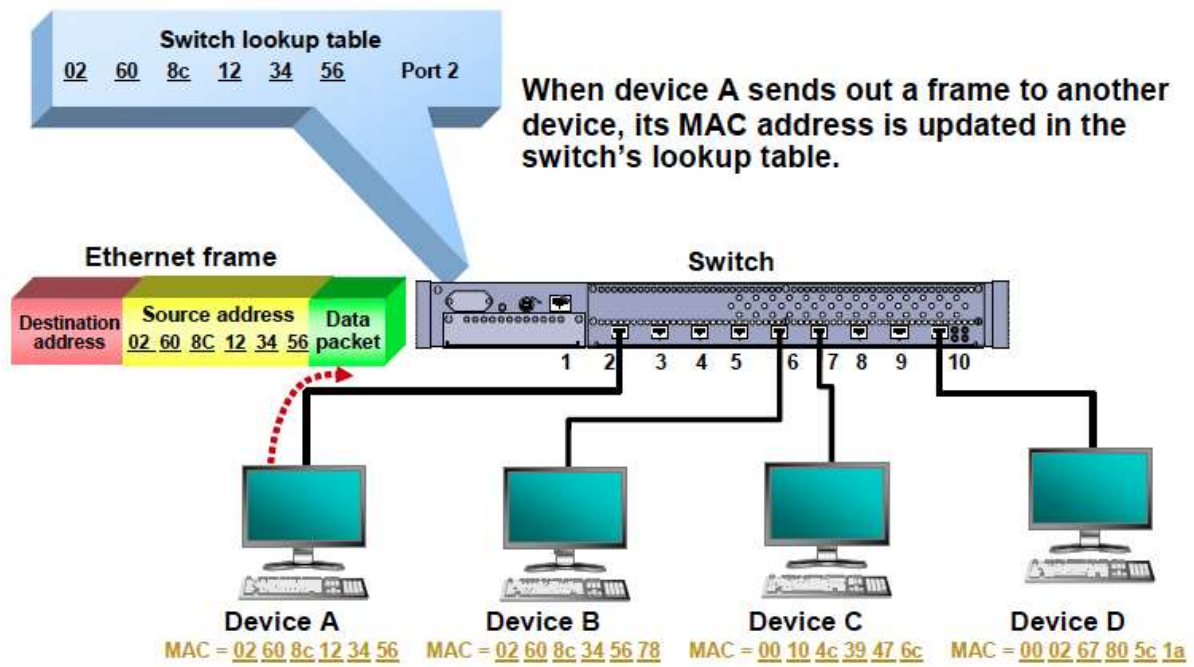
Technologies per layer (switching, routing, VPNs, etc,)

Network technologies for DevOps?

Модель OSI



Network technologies: switching



Layer 2 stack:

VLAN

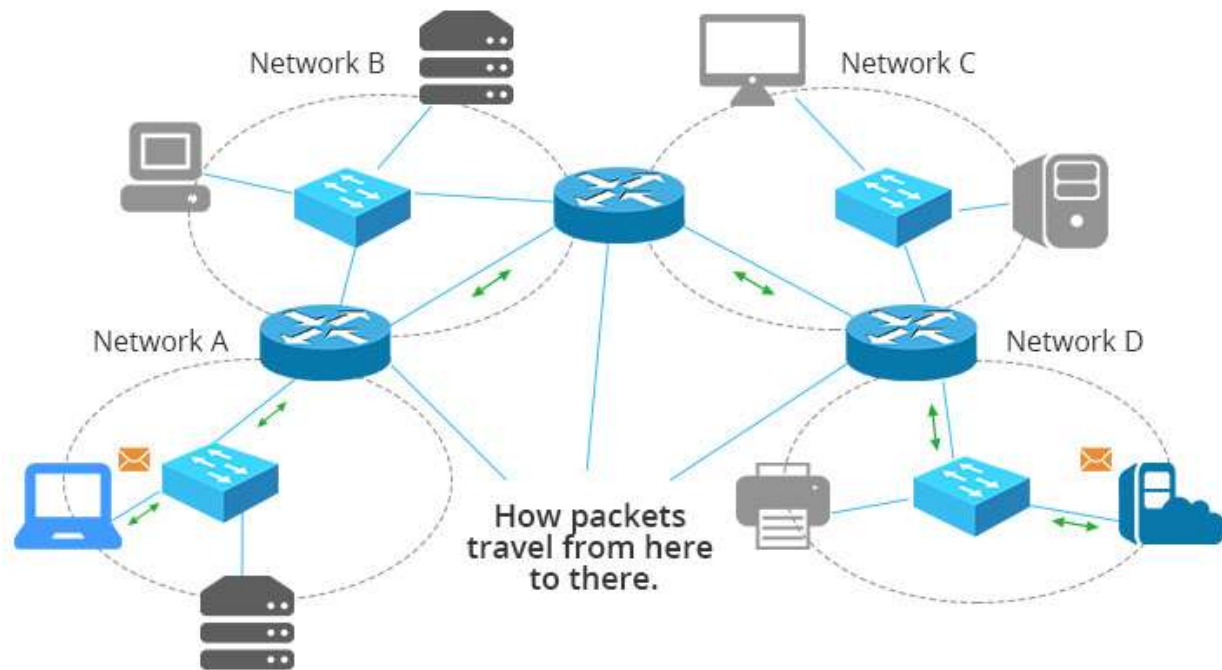
VxLAN

TRILL

Модель OSI



Network technologies: routing



Layer 3 stack:
Routing protocols (OSPF, IS-IS, BGP)
VxLAN
MPLS (Segment routing)

Модель OSI



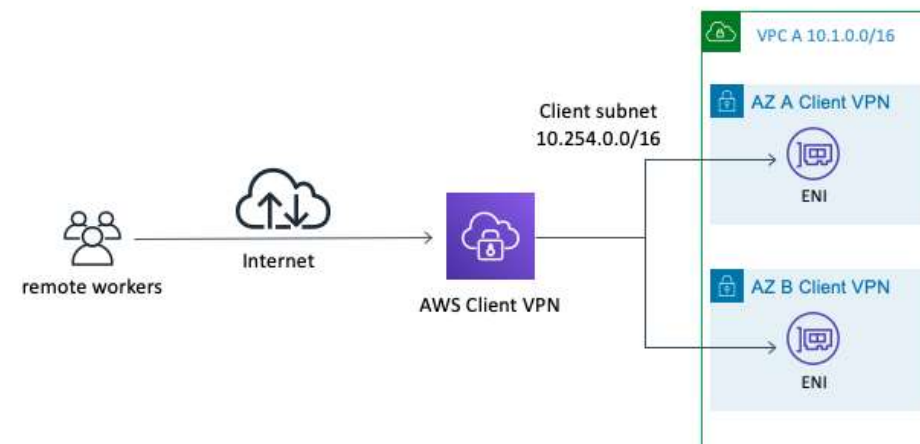
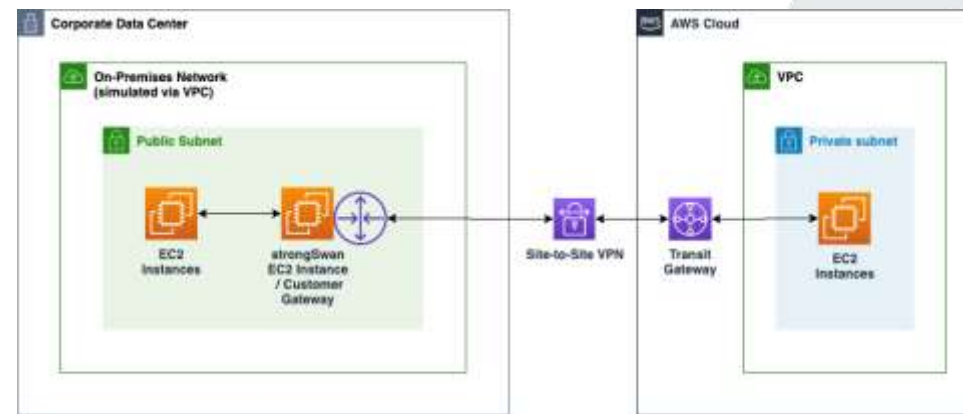
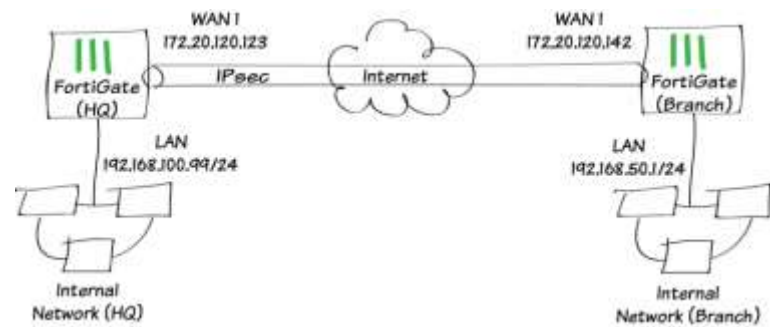
TCP vs UDP



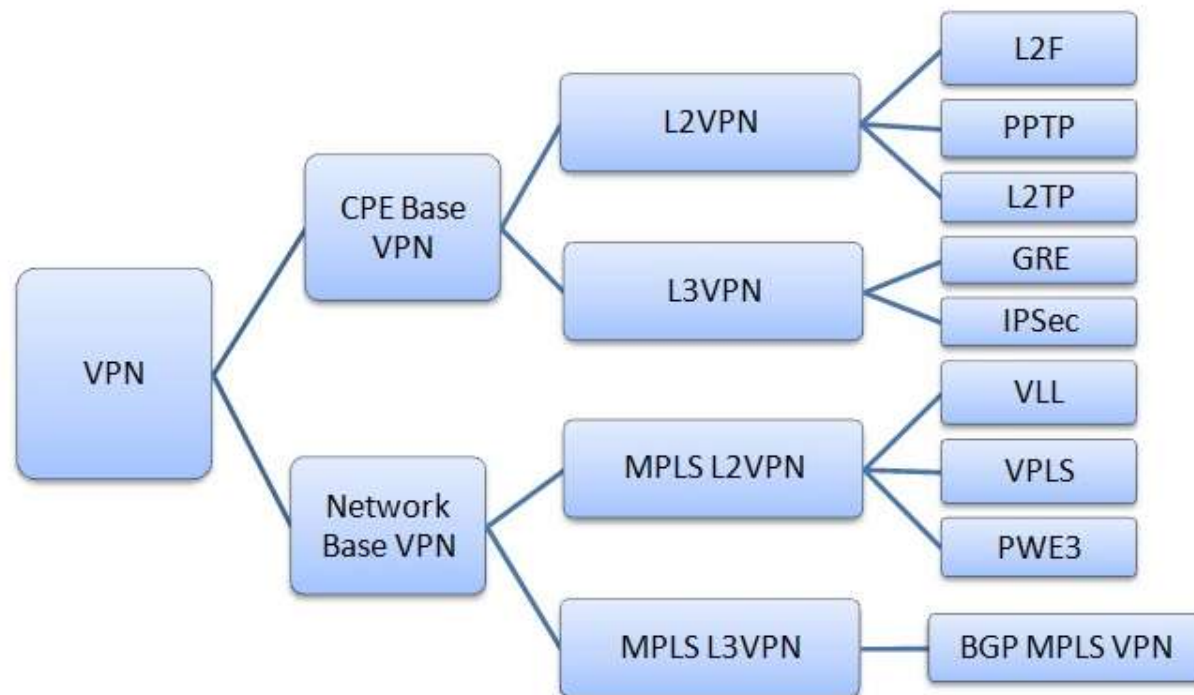
Модель OSI

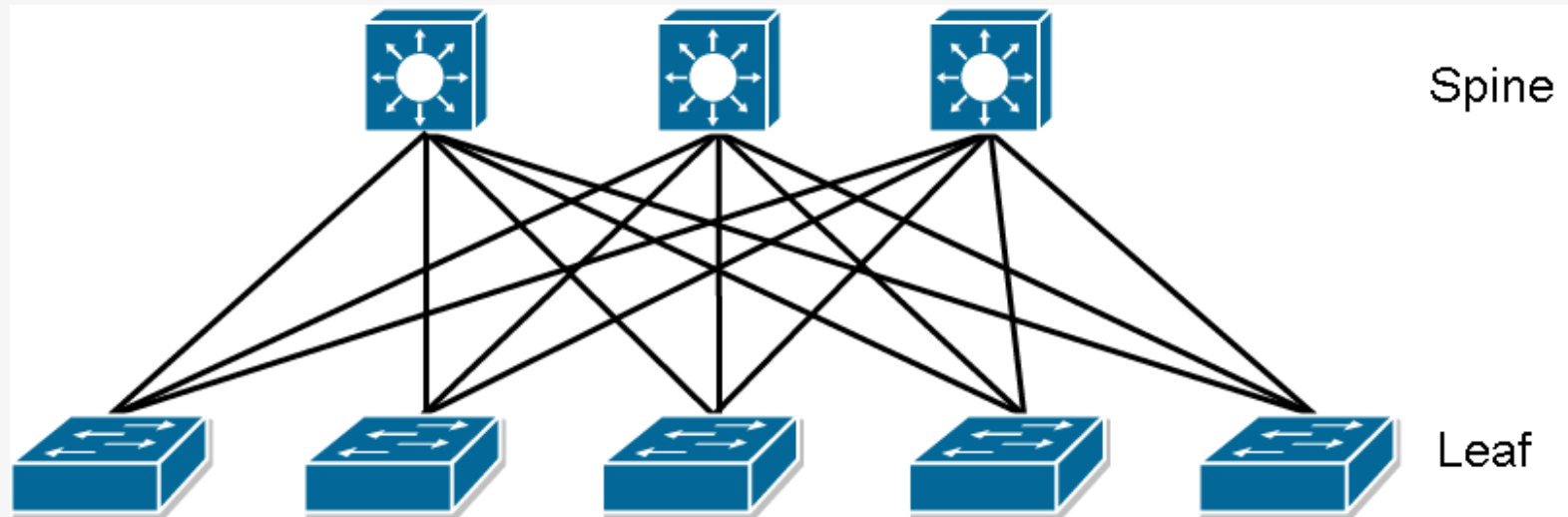
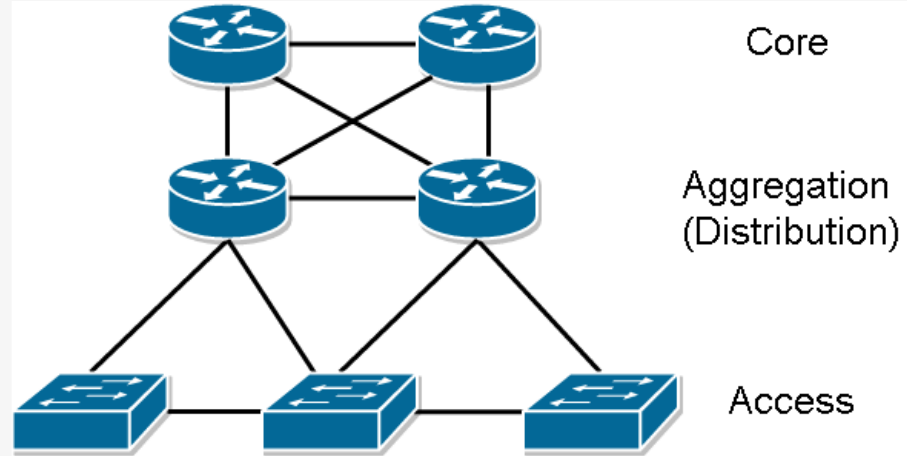


Network technologies: *VPNs (Secure)*



Network technologies: VPNs (Tunnels)







Standard Device Interfaces

Cisco is committed to supporting industry standard data models authored in YANG and interfaces such as NETCONF, RESTCONF and gRPC across all platforms. Full details on Learning Labs, Sample Code and Platform support status can be found on the Standard Device Interfaces page.



Cisco Specific APIs

Below you can find links to information on native APIs for platforms.

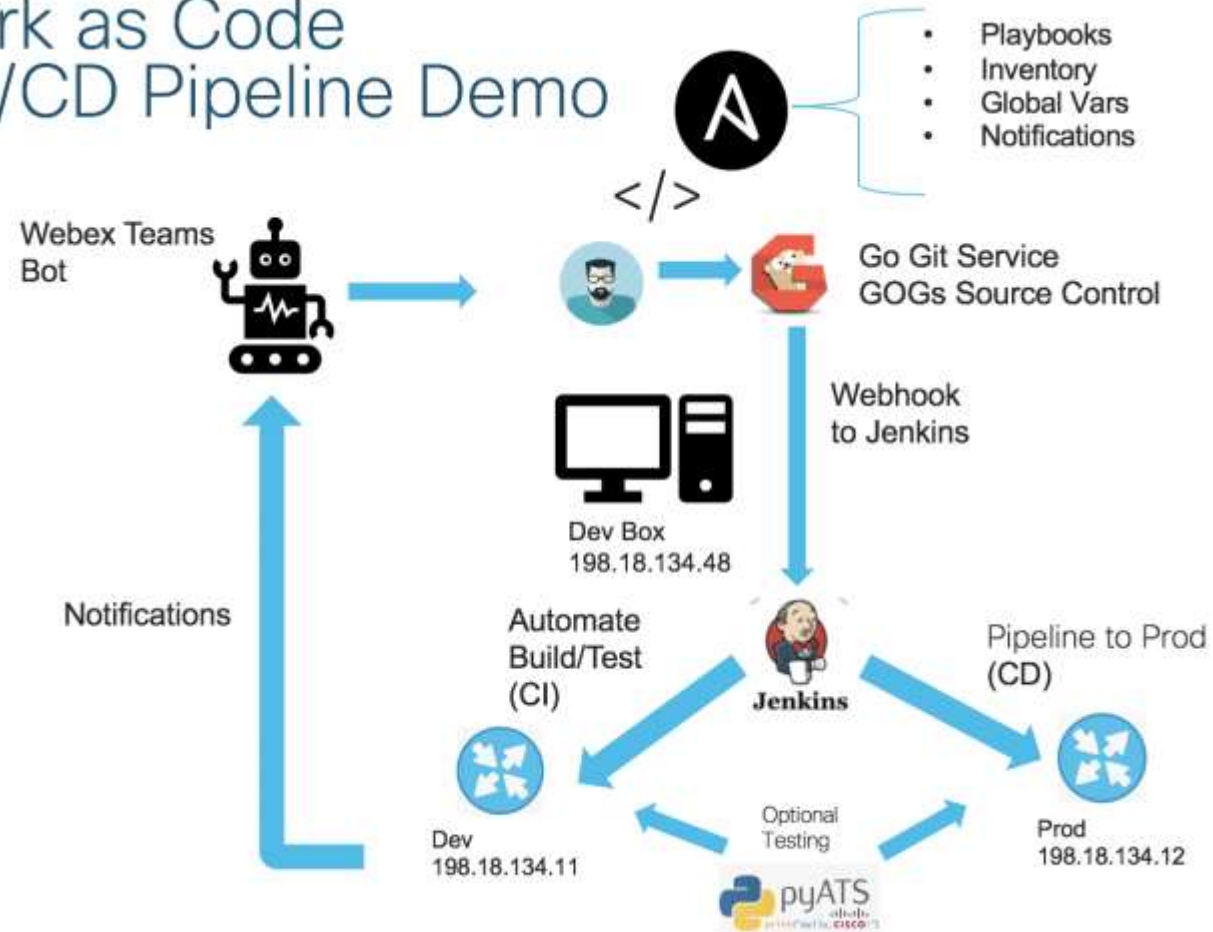


Zero Touch Provisioning

Need more customization? Build your own day 0 solution leveraging the standard Zero Touch Provisioning capabilities available in each platform.

[cisco.com](https://www.cisco.com)

Network as Code and CI/CD Pipeline Demo



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