LF
NETWORKING
Virtual Technical Meetings

LF NETWORKING
Virtual Technical Meetings

EUAG and Software Defined Networking

Ahmed ElSawaf

LF NETWORKING
Virtual Technical Meetings

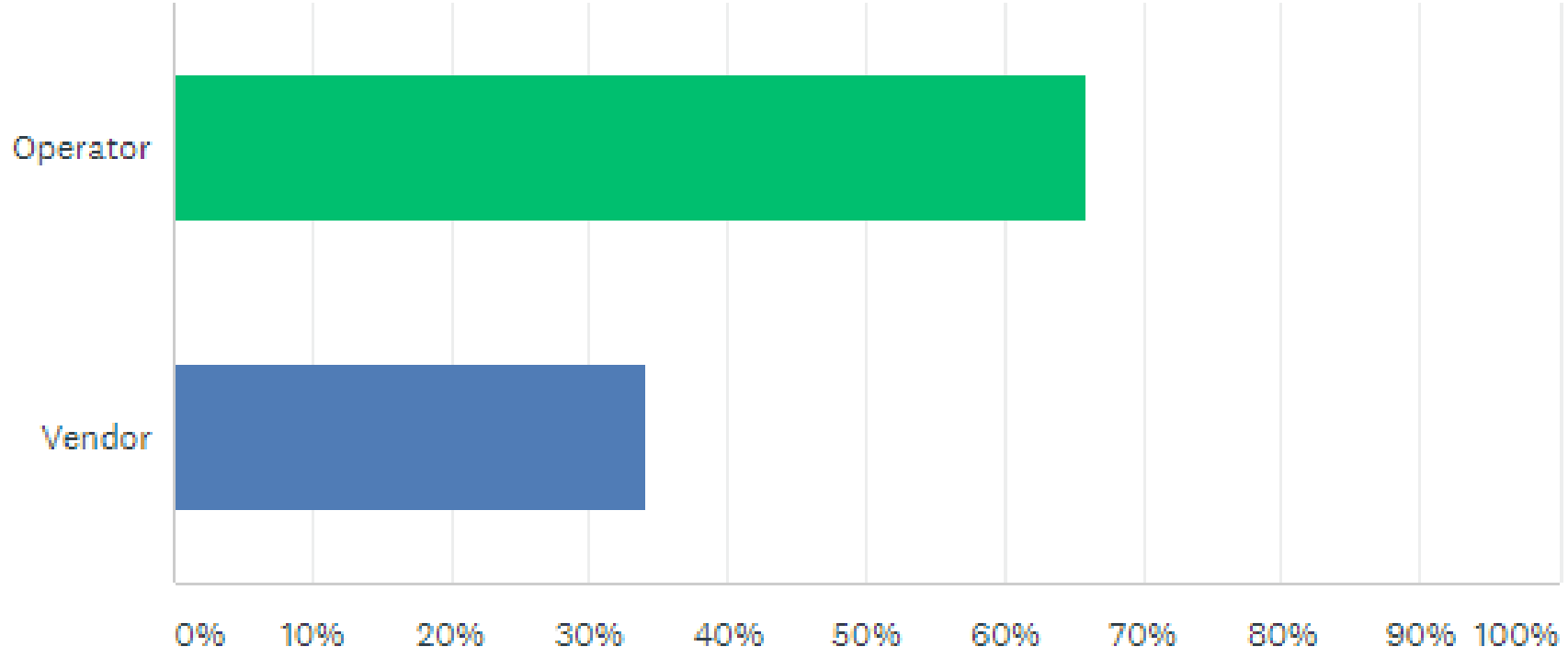
Survey Demographics

More Telco than Vendor

Q1

What type of company do you work for?

Answered: 41 Skipped: 0

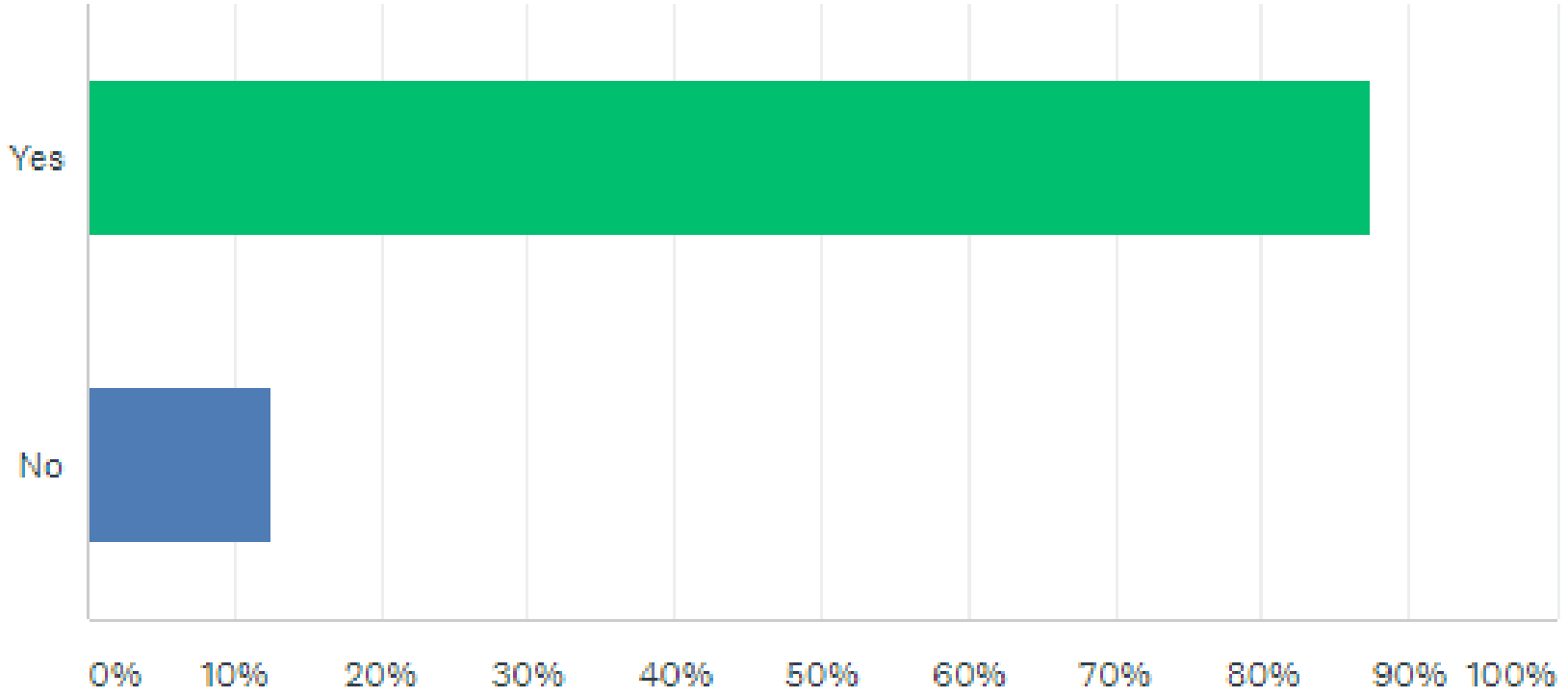


in Production Today

Q2

Do you presently (or in the past) use SDN Controllers?

Answered: 40 Skipped: 1

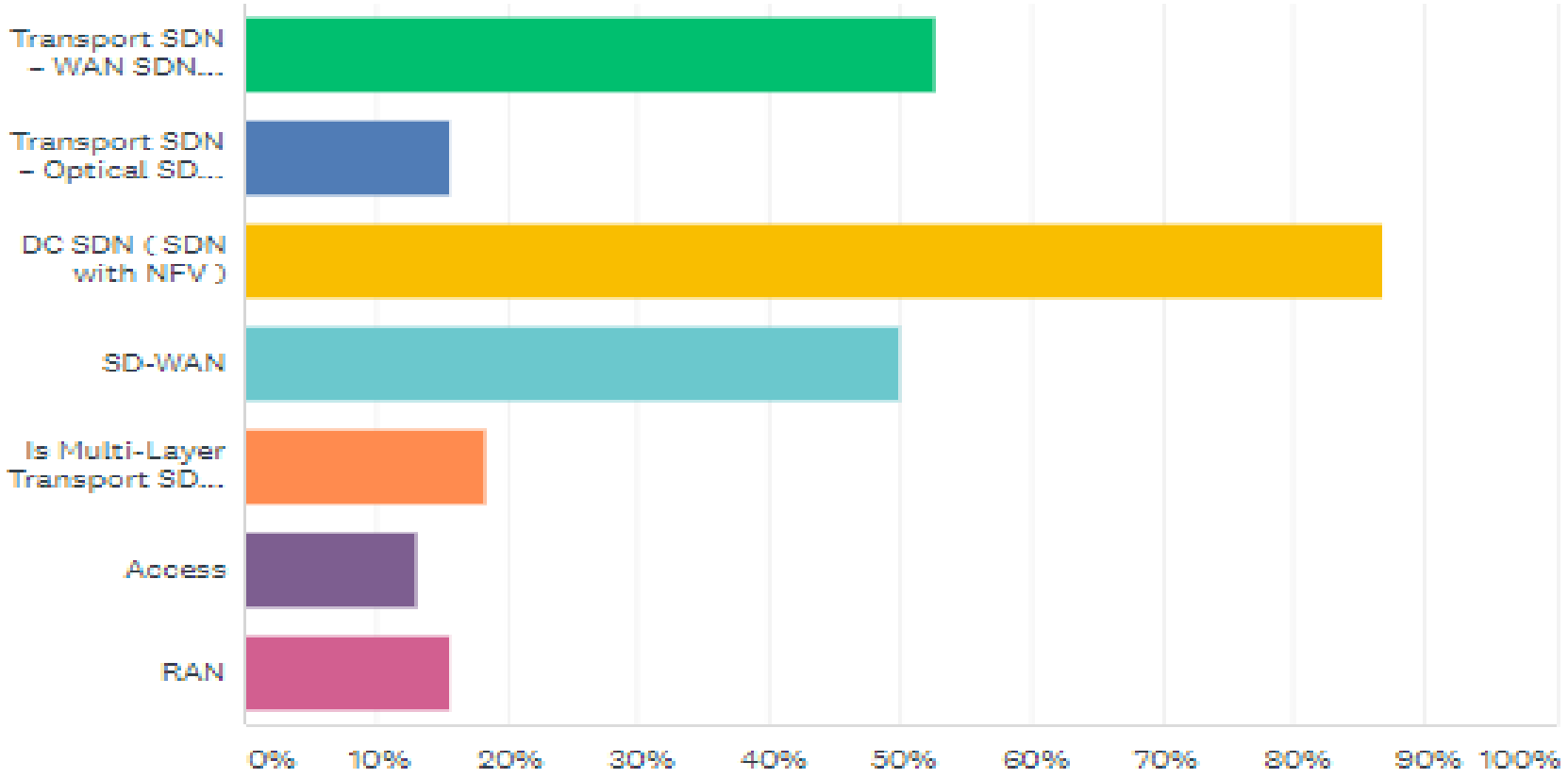


Use Cases

Q3

If Yes, What type of SDN controller (Use Cases) are used? (Select one or more)

Answered: 38 Skipped: 3

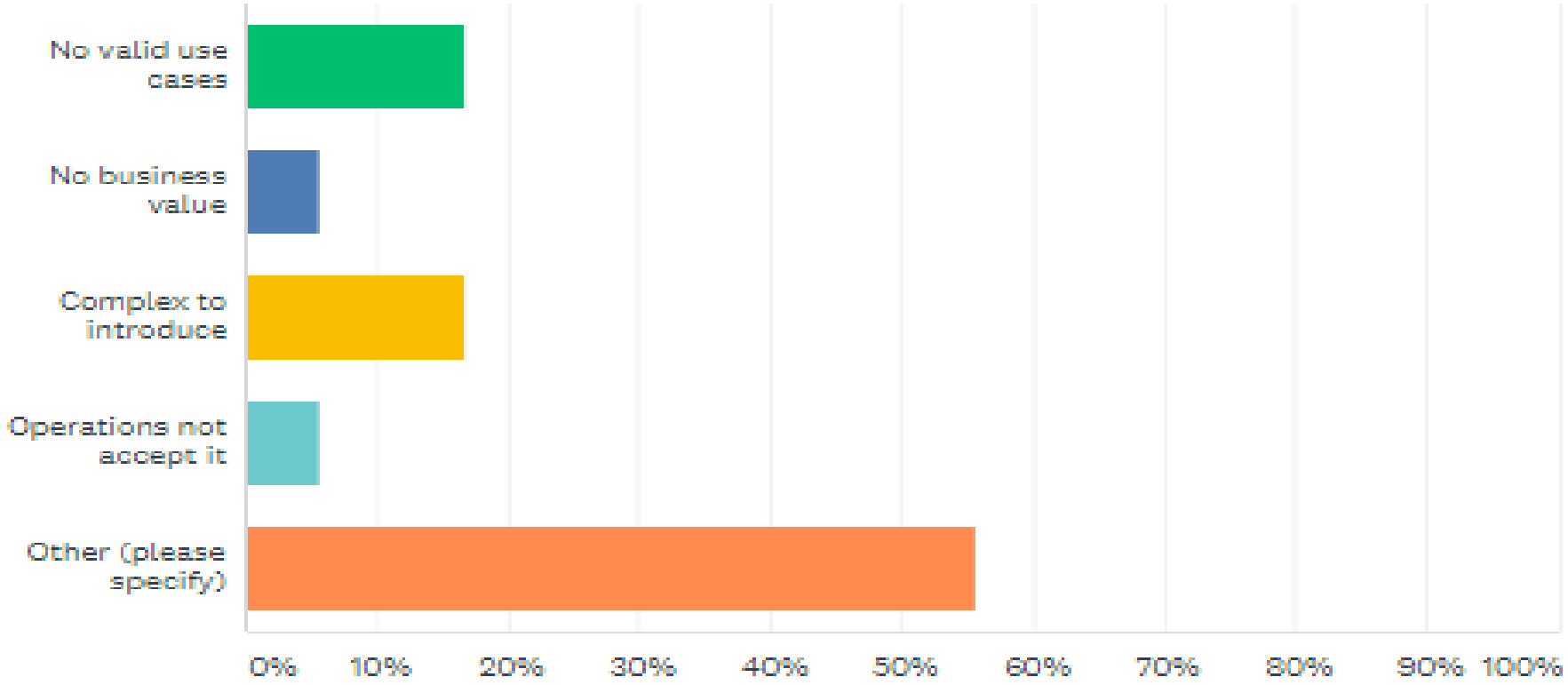


Why not ?

Q4

If No, what is the reason for not adopting a SDN controller?

Answered: 18 Skipped: 23

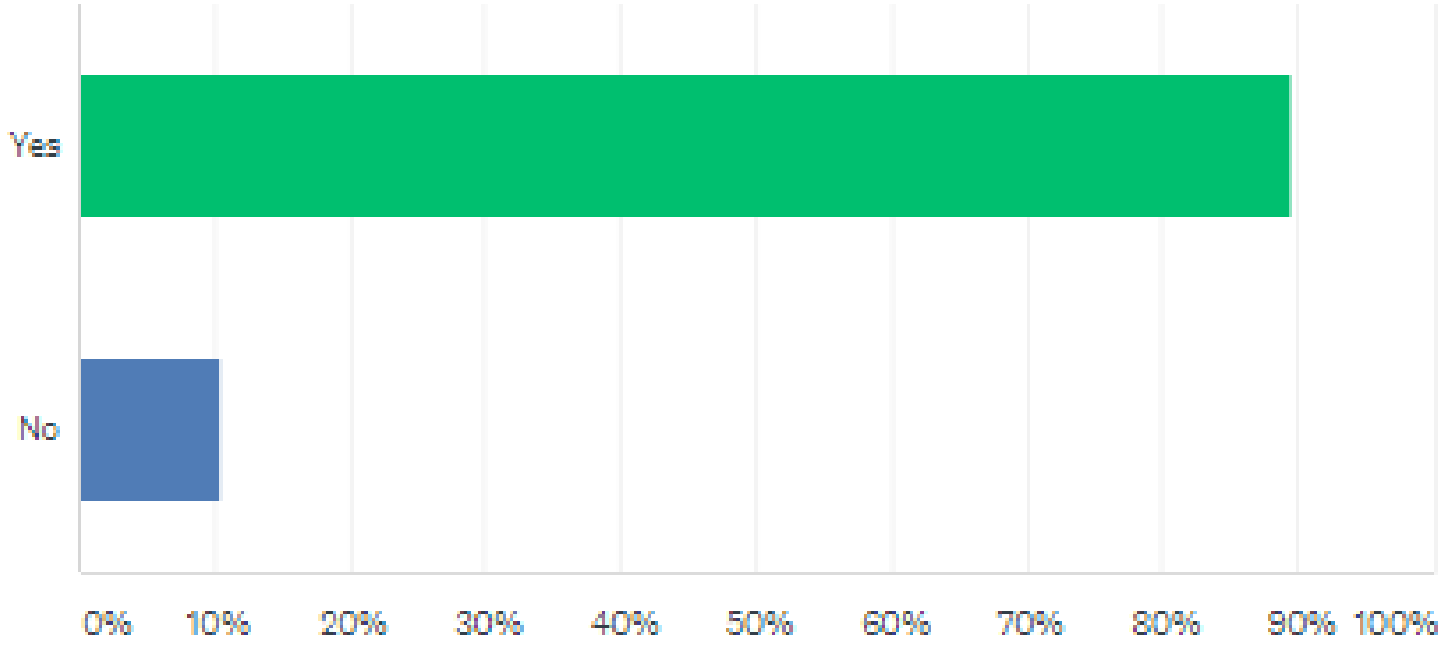


Future Plan

Q5

Are you planning to deploy SDN in the future?

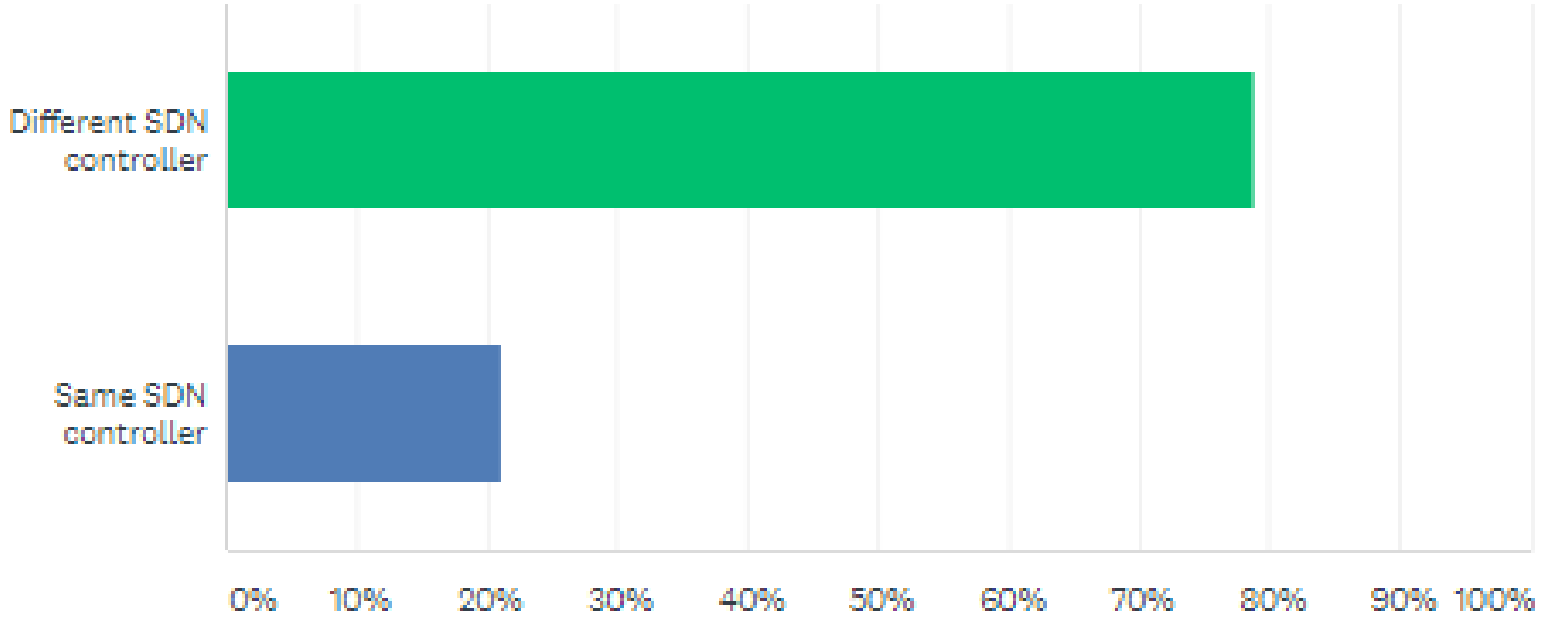
Answered: 38 Skipped: 3



Q6

If you deploy SDN , Do You have different SDN controllers for MPLS and DC ?

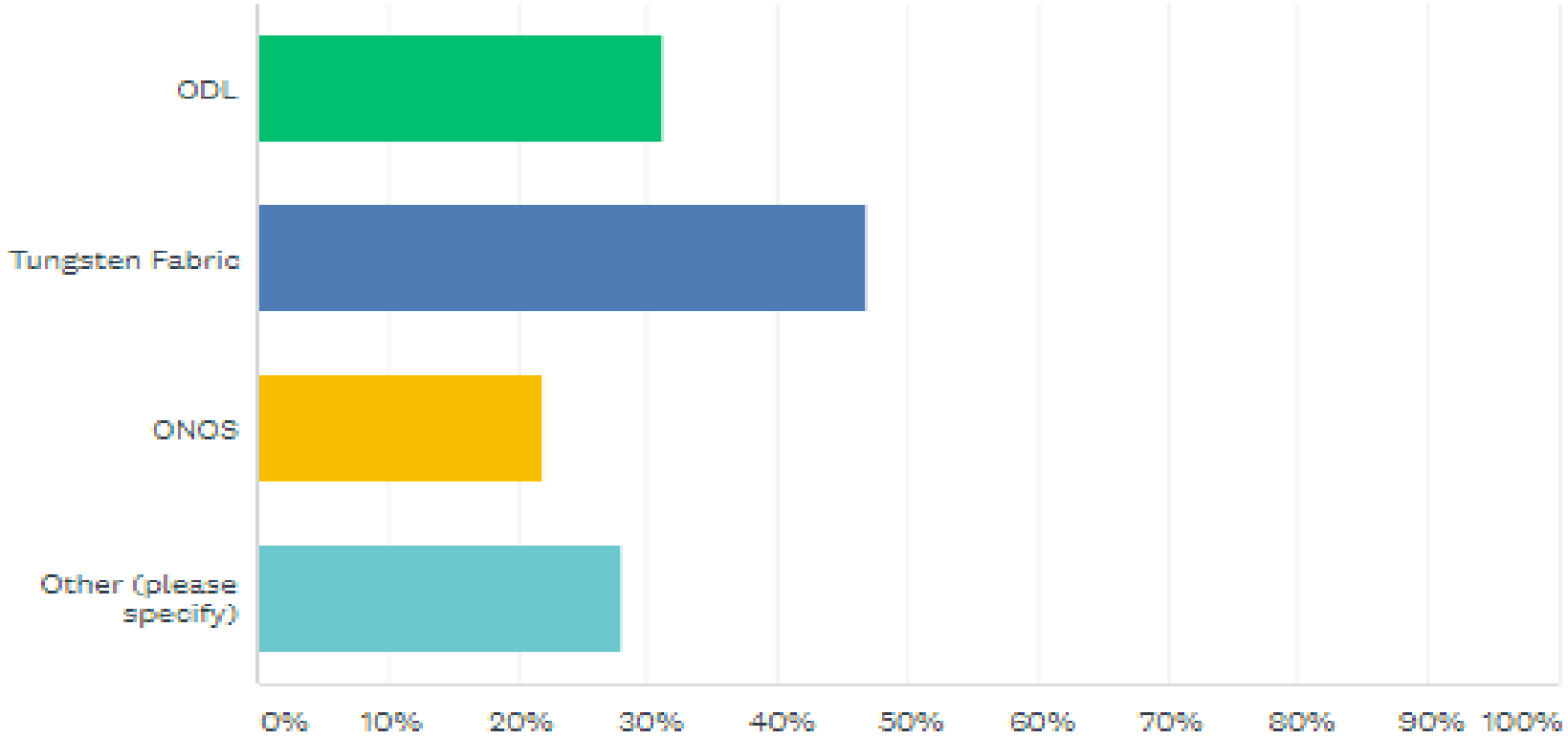
Answered: 38 Skipped: 3



Q7

If you deploy an Open Source SDN, which SDN you deploy?

Answered: 32 Skipped: 9



possibly ONF next Gen SDN (planning)

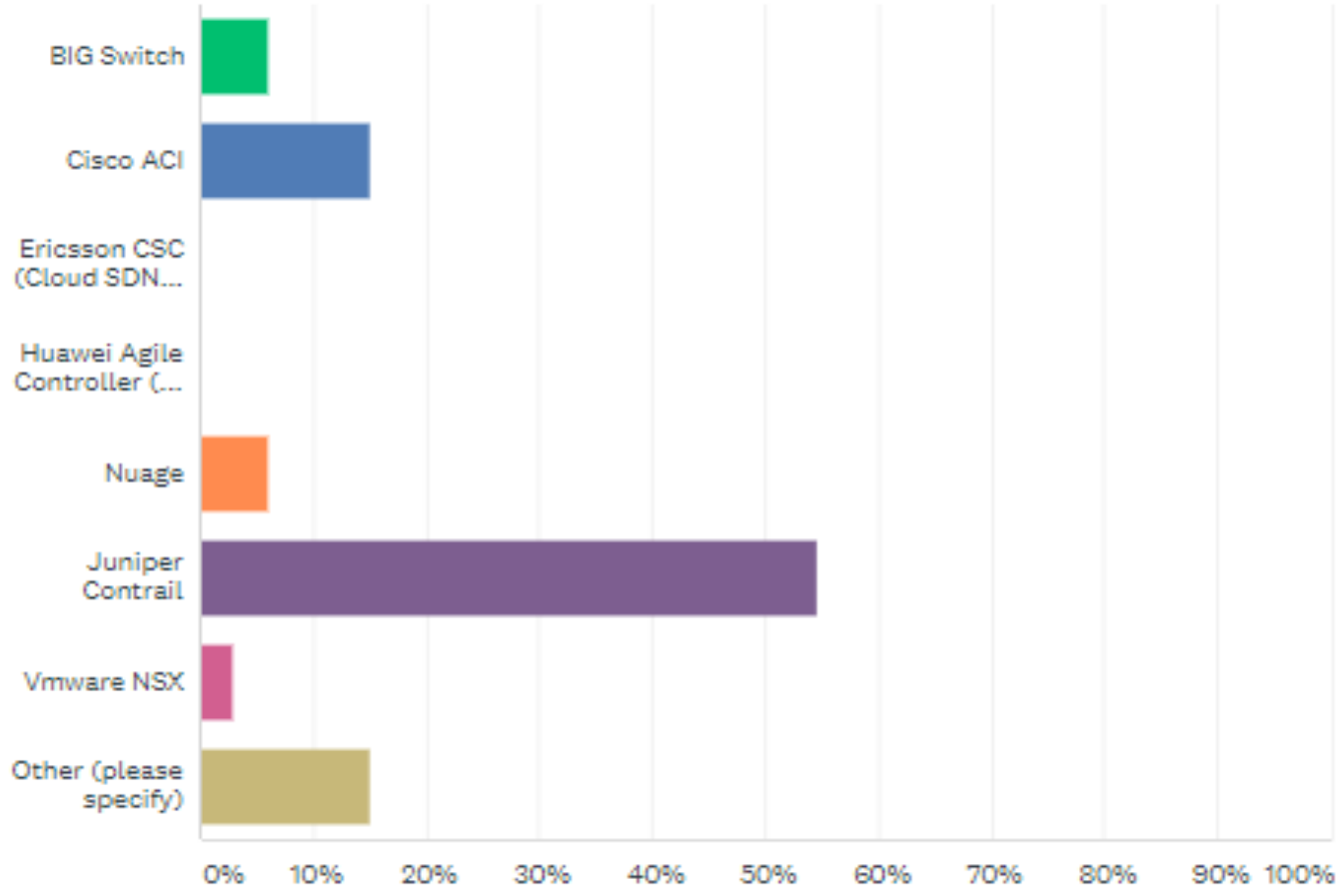
OVN

home grown

Q8

If you deploy SDNs via a vendor, which SDN you deploy?

Answered: 33 Skipped: 8

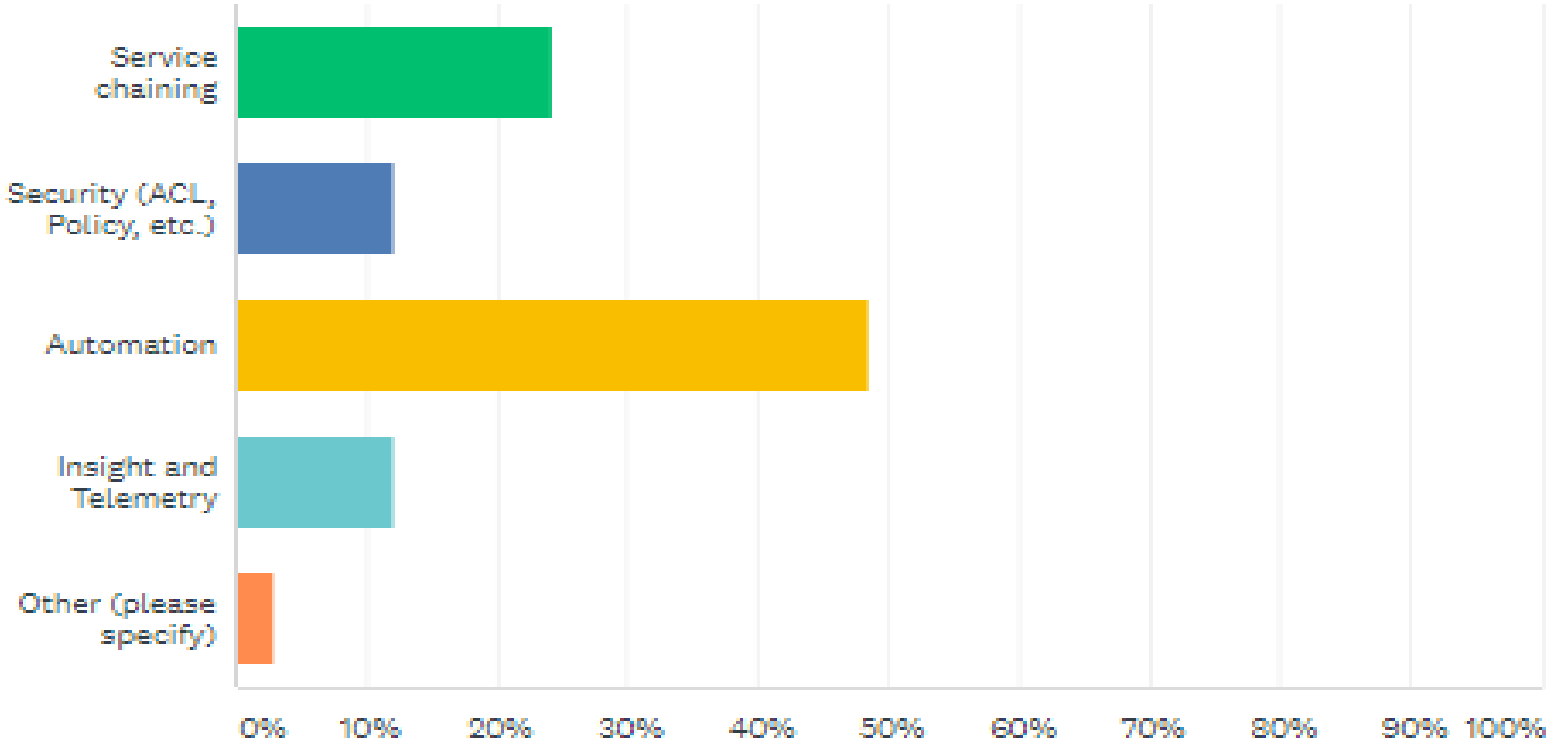


multiple for different use cases , ACI, NSX, Nuage etc..

Q9

In case of DC SDN (SDN with NFV) , What is the most significant pain point that SDN helps to overcome?

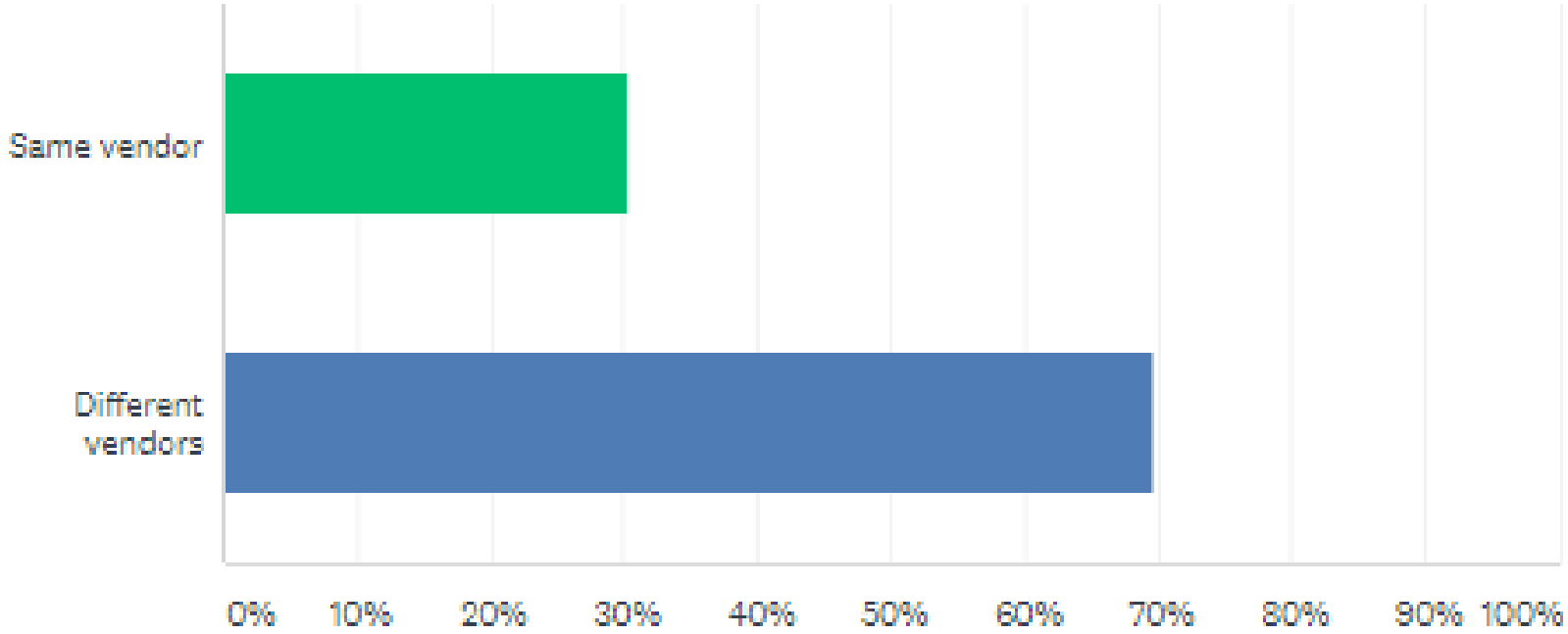
Answered: 33 Skipped: 8



Q10

If you deploy SDN controller , Are the SDN and VIM from same or different vendors (in case of single SDN & VIM) ?

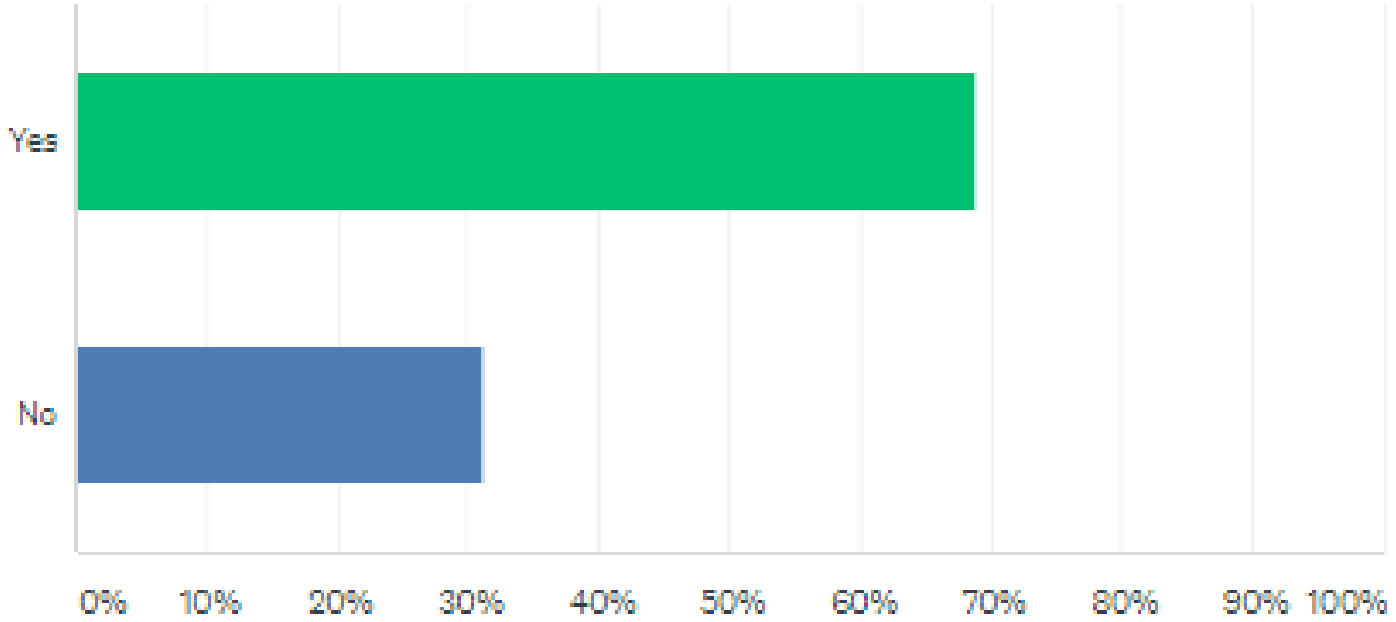
Answered: 33 Skipped: 8



Q11

In case DC SDN , Do you have integration between NFVO and the SDN controller ?

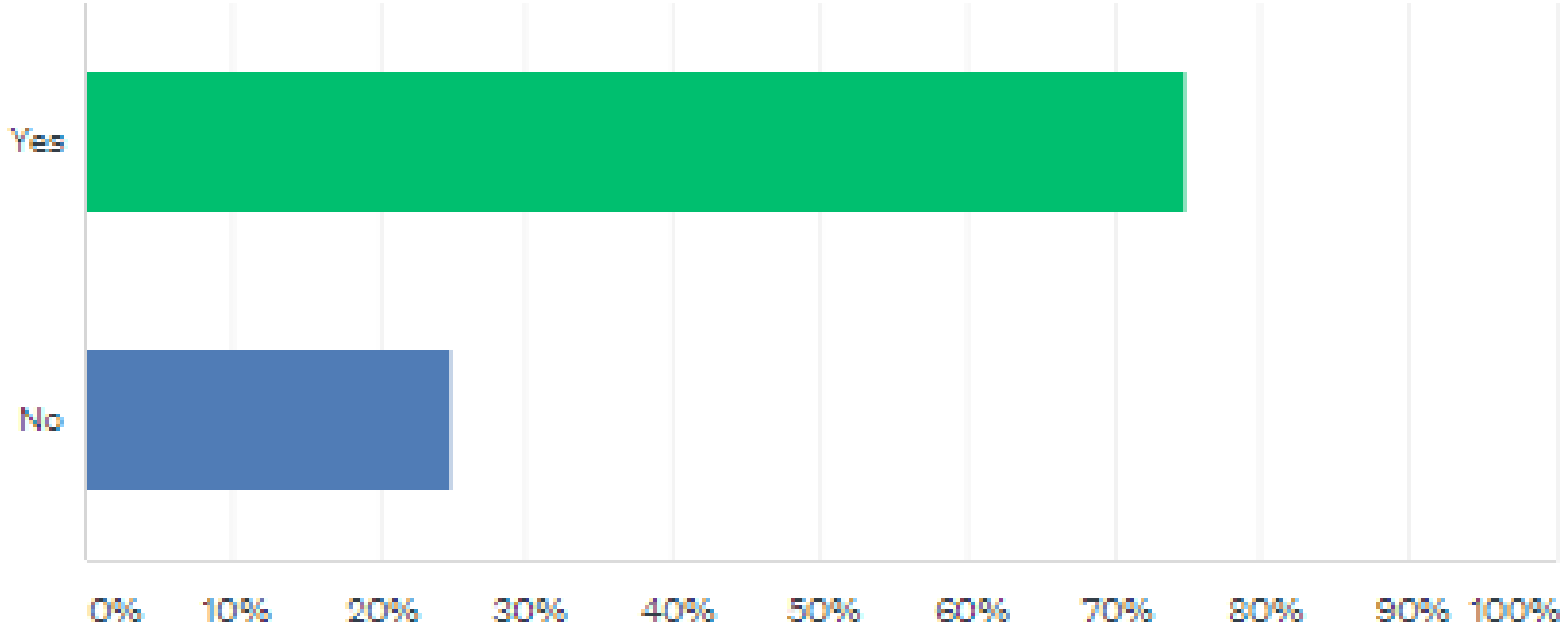
Answered: 32 Skipped: 9



Q12

In case DC SDN , do you deploy one SDN controller for both underlay and overlay ?

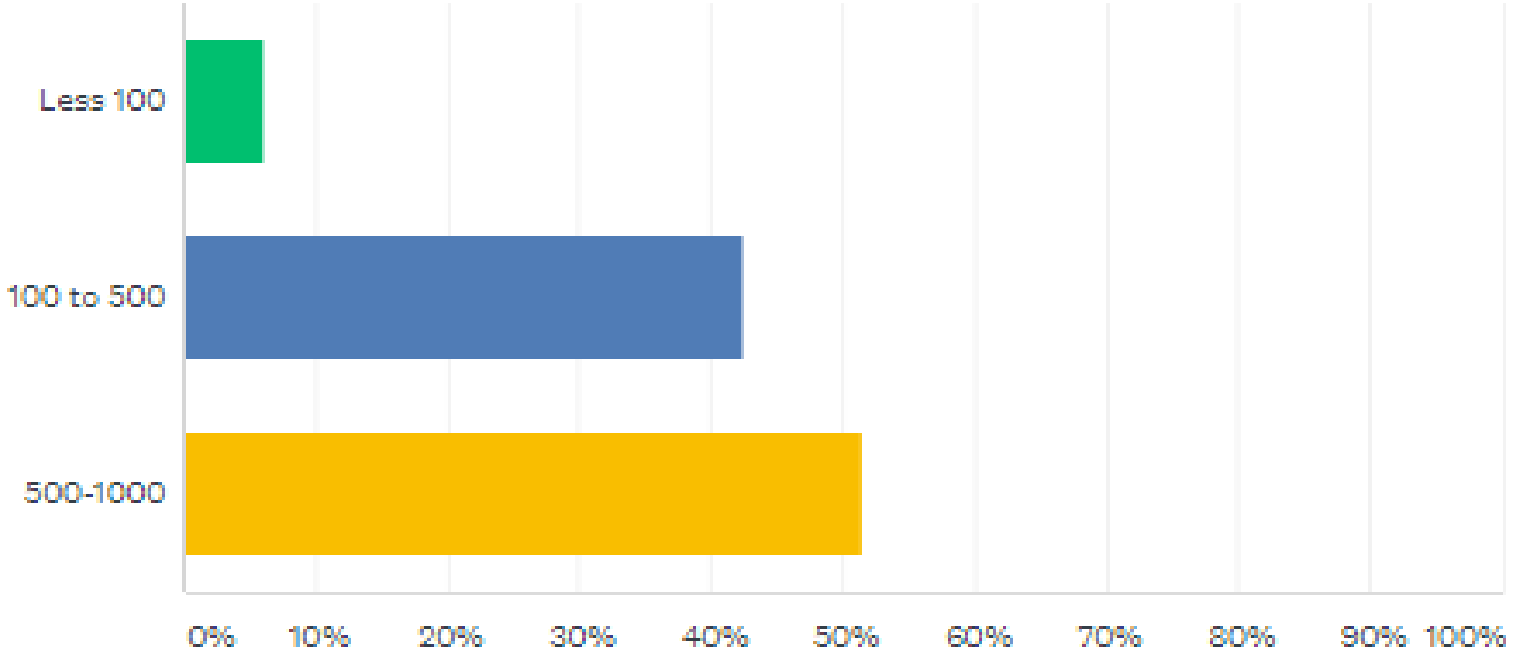
Answered: 32 Skipped: 9



Q13

What is the size of the environment that the SDN controllers is deployed within the Data Center (number of compute nodes)?

Answered: 33 Skipped: 8



Q14

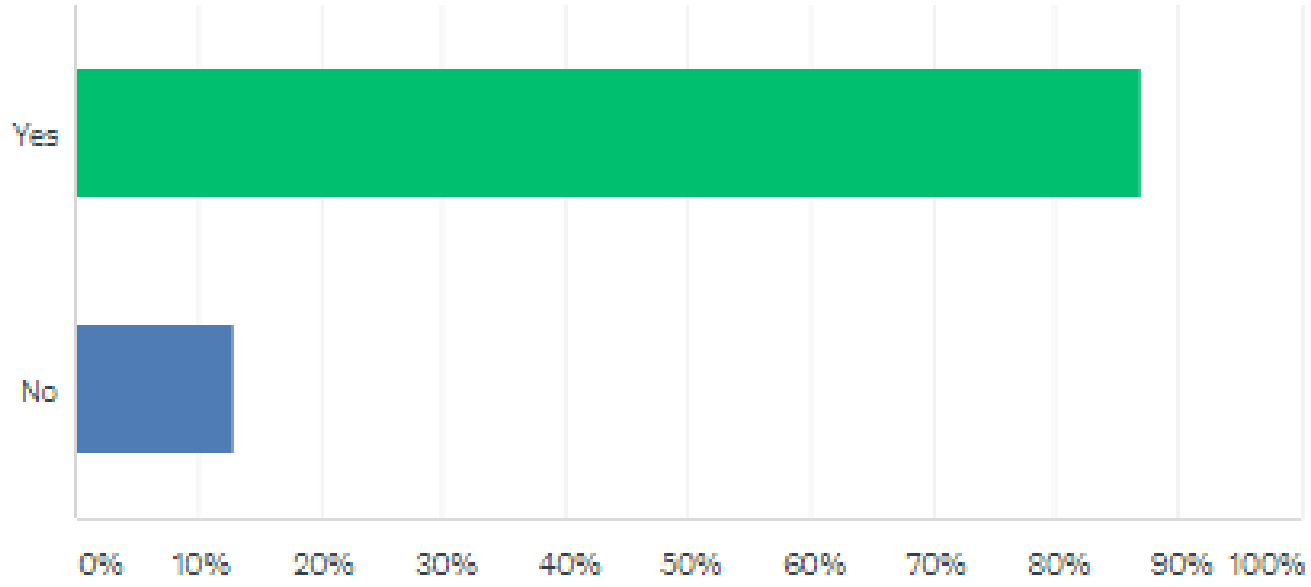
What are the most important missing features that you looking to be part of your current SDN deployment?

1. ECMP load balancing among VNFs and CNFs
2. better integration with cloud infrastructure, and orchestration
3. Managing the underlay and overlay networking using same SDN controller
4. Programmbalities
5. Security and visibility
6. streaming telemetry, data analytics, trafic engineering
7. multi site control plane fault isolation
8. SFC
9. Debug tools
10. Integration with NFVO
11. Security integration with firewalls to have standard for traffic forwarding not only based on policy but firewall rules as well
12. Managed both containers and CM
13. full control over underlay
14. less number of compute resources during assignment to OVS/VR with DPDK
15. SRIOV Managmeent , NBI , Scaling and Operational Perf

Q15

Do you require SDNs to extend across DCs i.e. towards the Edge?

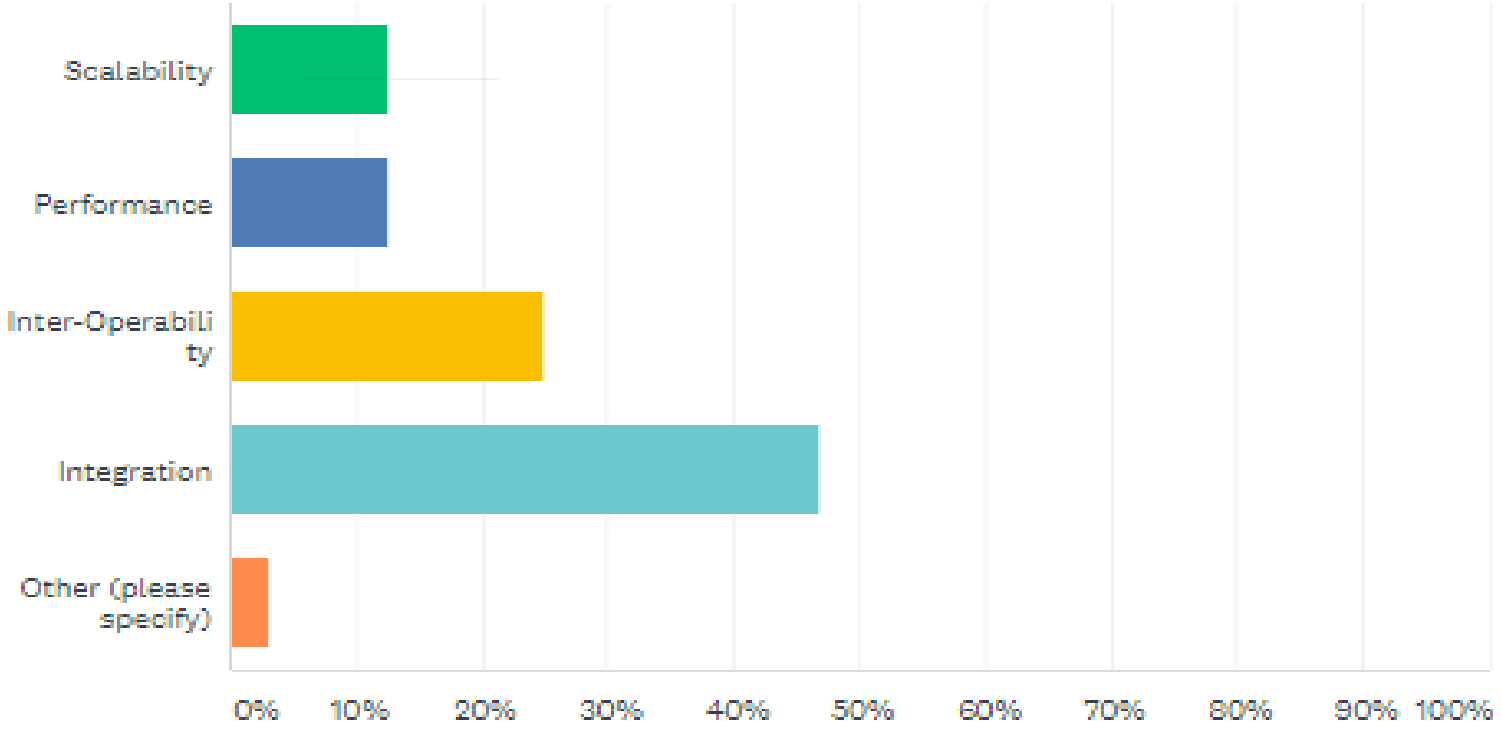
Answered: 31 Skipped: 10



Q16

What is the MOST significant pain point during SDN deployment?

Answered: 32 Skipped: 9

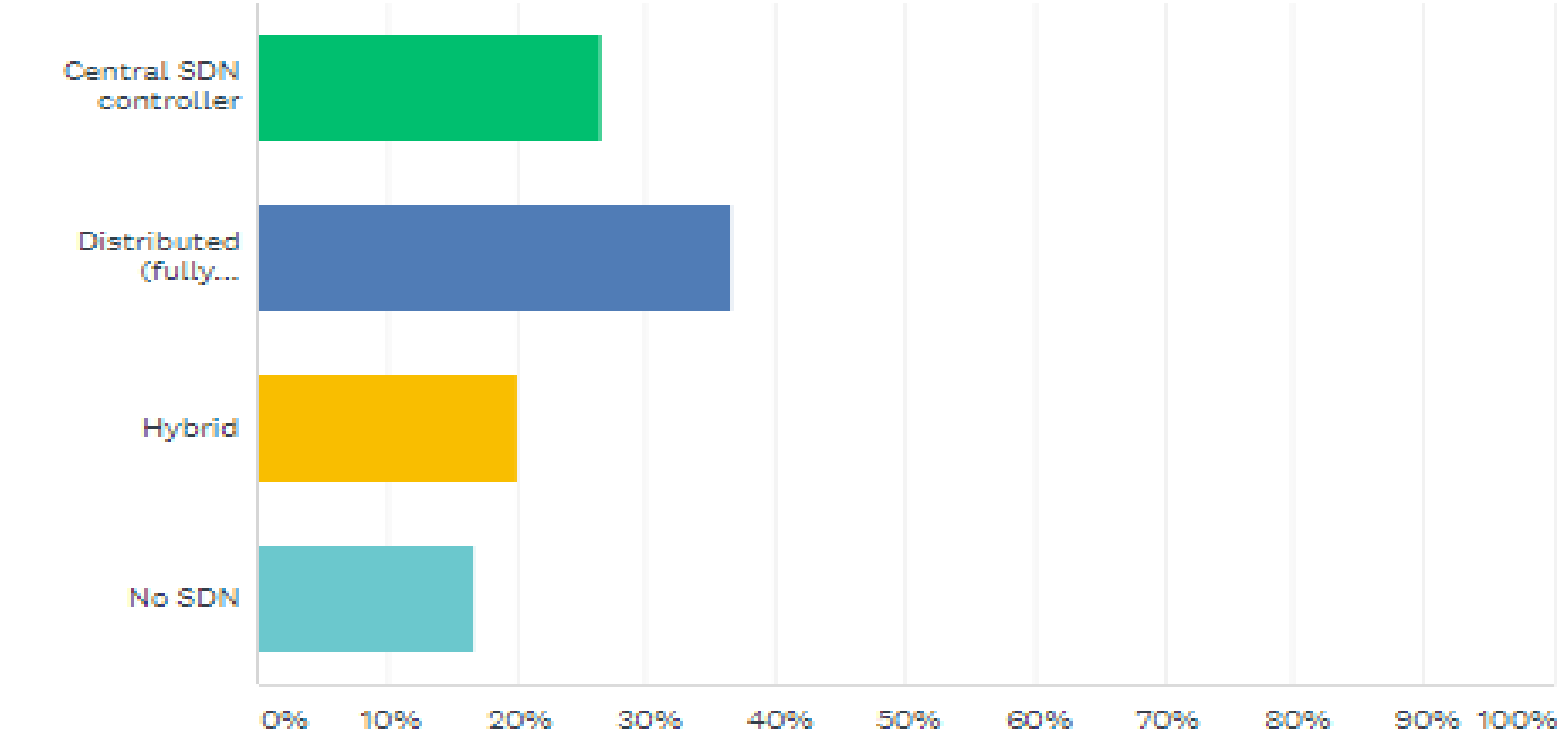


Deployment

Q17

What type of networking solution do you use with Kubernetes (k8s) ?

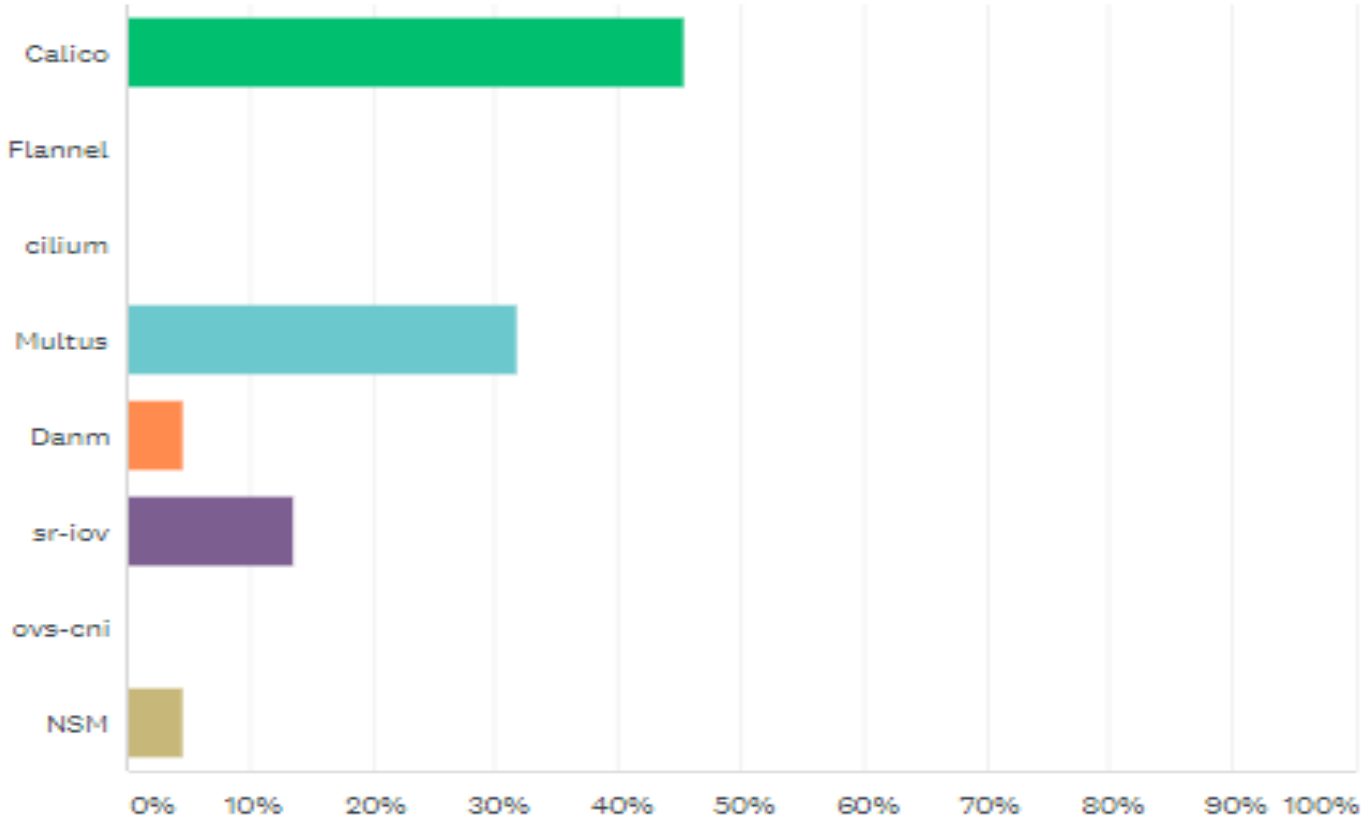
Answered: 30 Skipped: 11



Q18

if You used Distributed SDN controller for K8s, What is the SDN controller is used ?

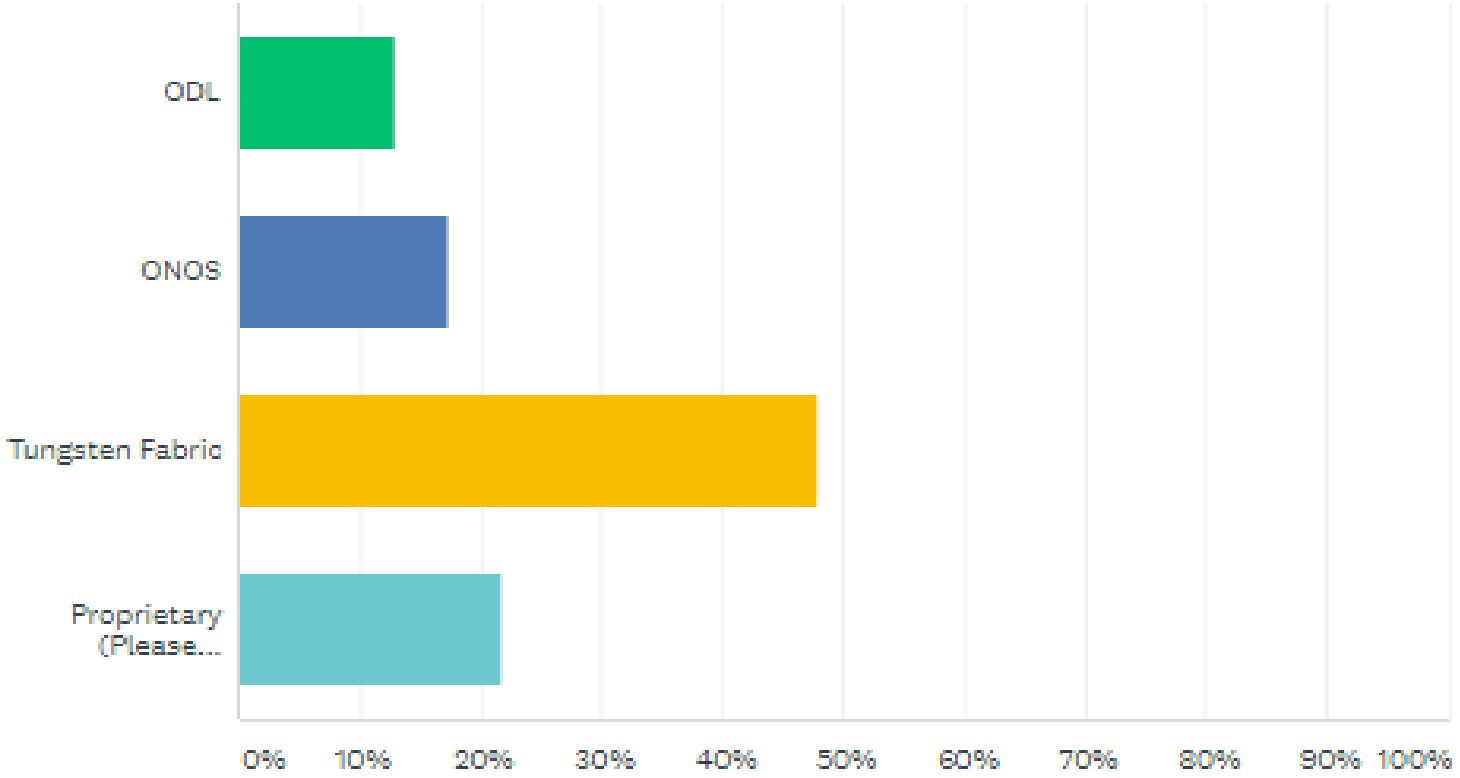
Answered: 22 Skipped: 19



Q19

If you used central SDN controller for K8s , what is the SDN controller used ?

Answered: 23 Skipped: 18



NSX-T

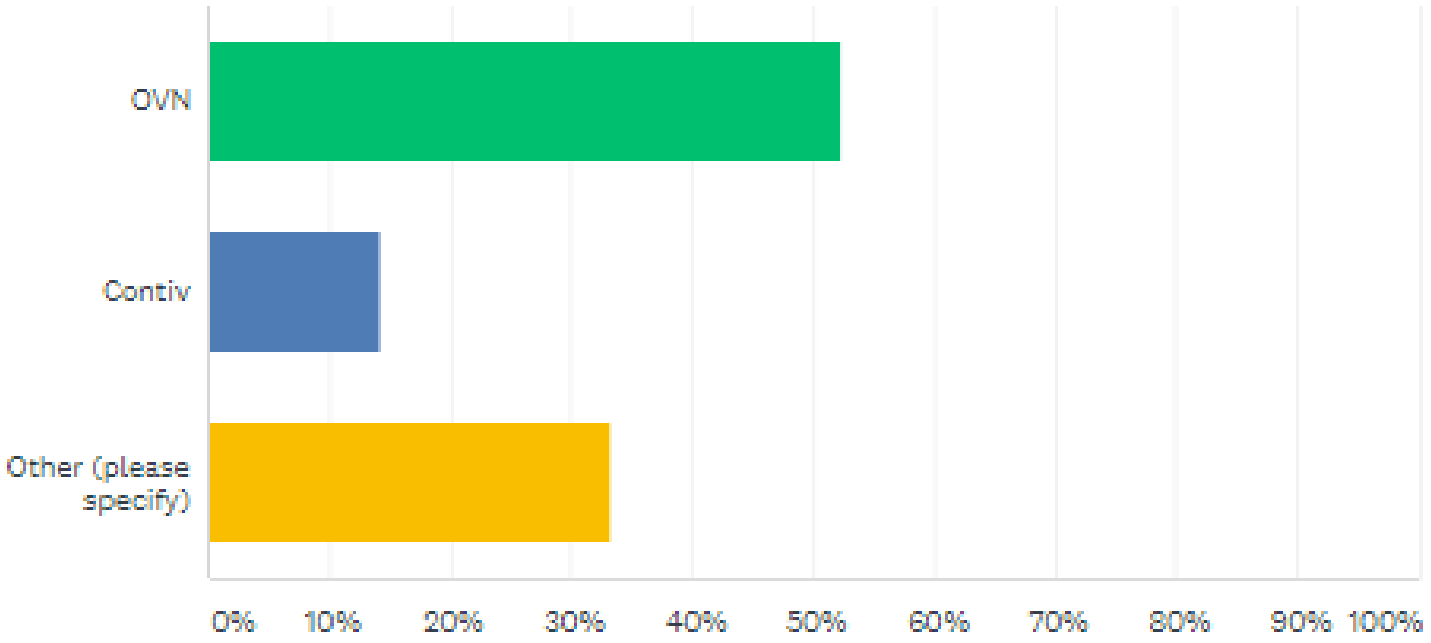
Cisco Aci

Contrail

Q20

If you used hybrid SDN controller for K8S , what is the SDN controller used ?

Answered: 21 Skipped: 20



Juniper Contrail

NONE

Q21

What is the most important features you are looking for K8s networking?

1. Multi Tenancy
2. security
3. Network integration.
4. Network and security
5. Hybrid cloud with VM support
6. custome IP subnet selection based on workload type. microsegmentation
7. control- and user plane separation
8. Ability to integrate with SDN controllers using standard based protocol
9. performance
10. PodDisruptionBudget (PDB)
11. Security - micro segmentation -
12. Plug and Play with CNI
13. Multi tenancy
14. CRD for NW , NSM , Stateful workloads
15. Simplicity, Performance, Interoperability
16. service chaining
17. SOme of the questions need to be multi-choice. Q18 AT&T uses Calico and Multuus

LF
NETWORKING
Virtual Technical Meetings
Thanks

LF
NETWORKING
Virtual Technical Meetings