



Evolution

Services Network Ingress Policy Container Orchestrators Kube



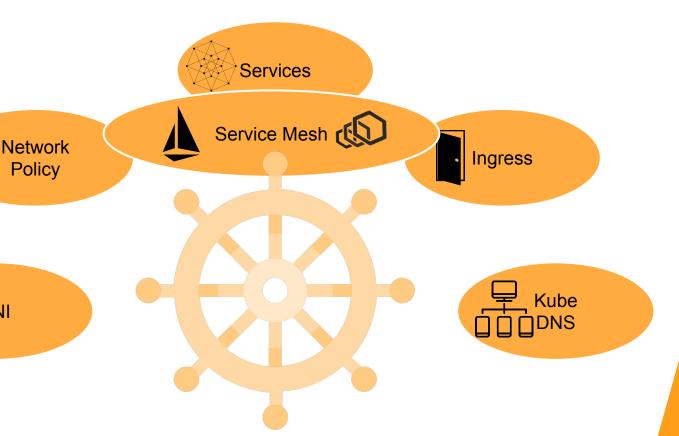
5

Evolution



Service Mesh

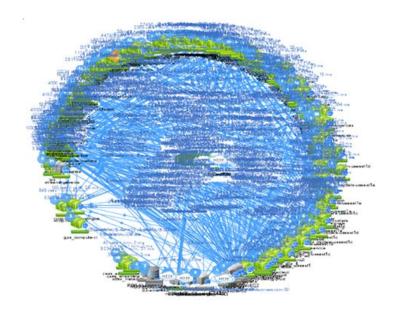
Container Orchestrators



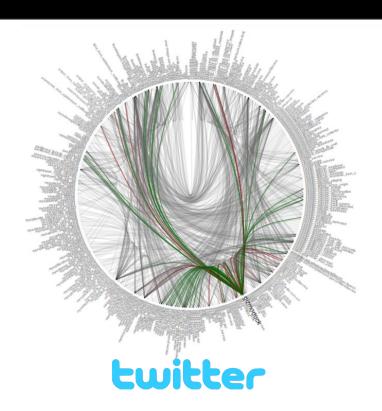




Microservices Today

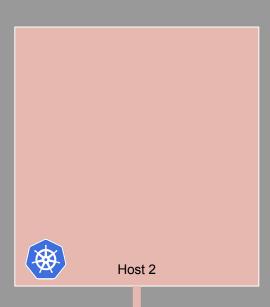




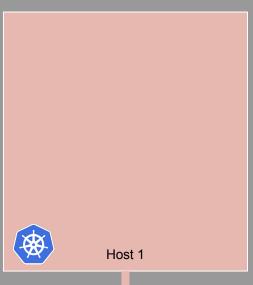


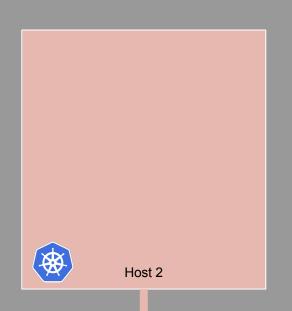
Pod Networks in K8s





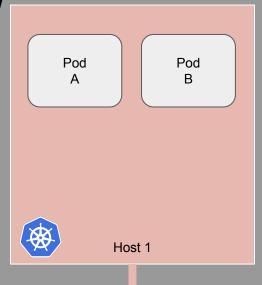
Pod Networks in K8s

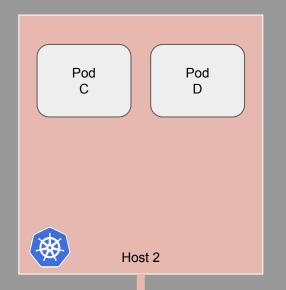






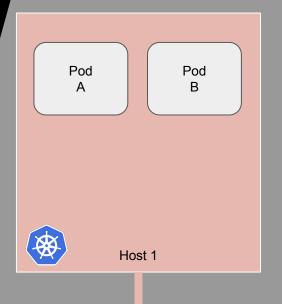
Pod Networks in K8s

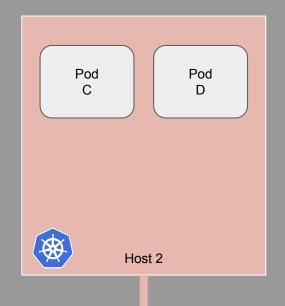


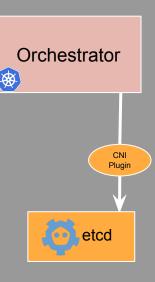




Pod Networks

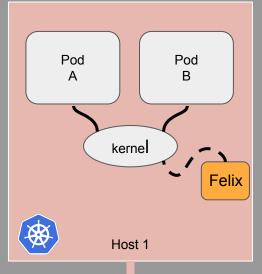


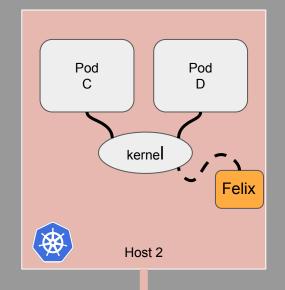


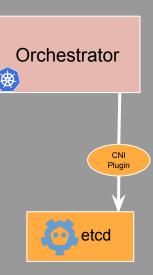


Pod Networks with Calico



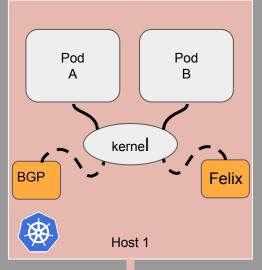


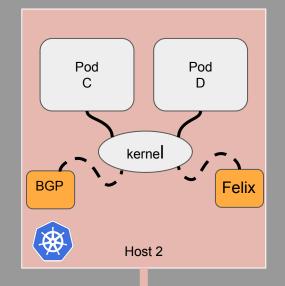


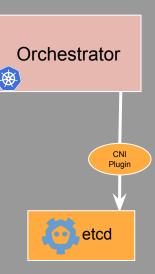


Pod Networks with Calico



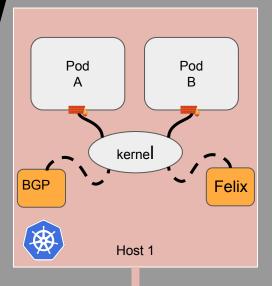


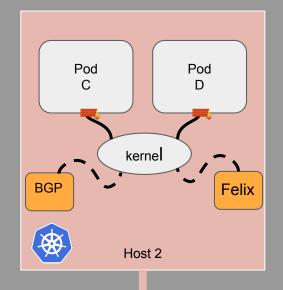


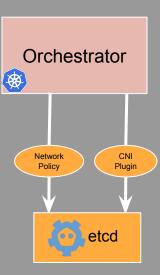


Network Policy with Calico







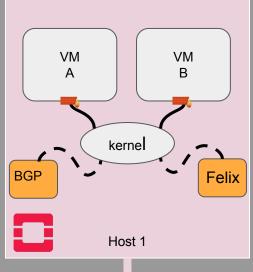


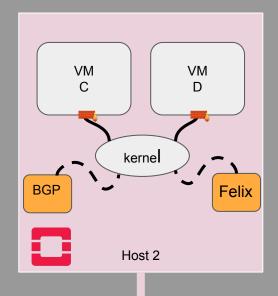
Calico (and Kubernetes) Network Policy

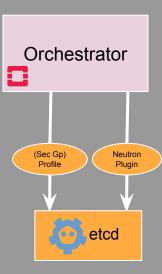
```
apiVersion: v1
kind: policy
metadata:
 name: allow-tcp-6379
spec:
 selector: role == 'database' && compliance == 'PCI'
   ingress:
    - action: allow
     protocol: tcp
      source:
       selector: role == 'frontend' && compliance == 'PCI'
      destination:
       ports:
       - 6379
    egress:
    - action: allow
```

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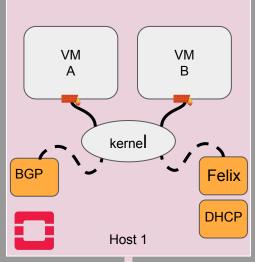
VM Networks with Calico

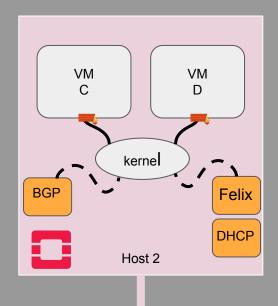


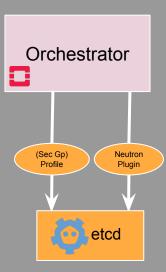




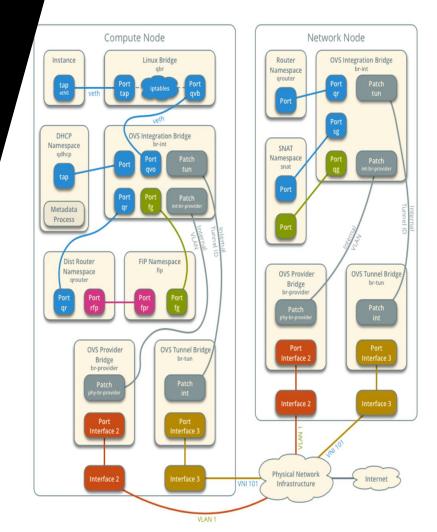
VM Networks with Calico

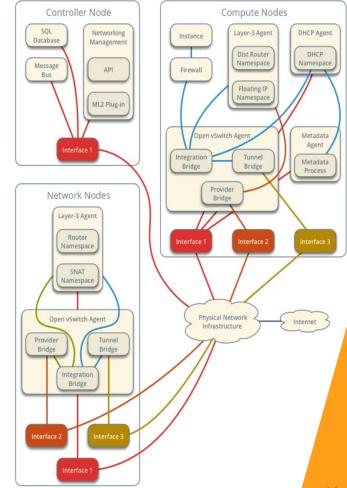






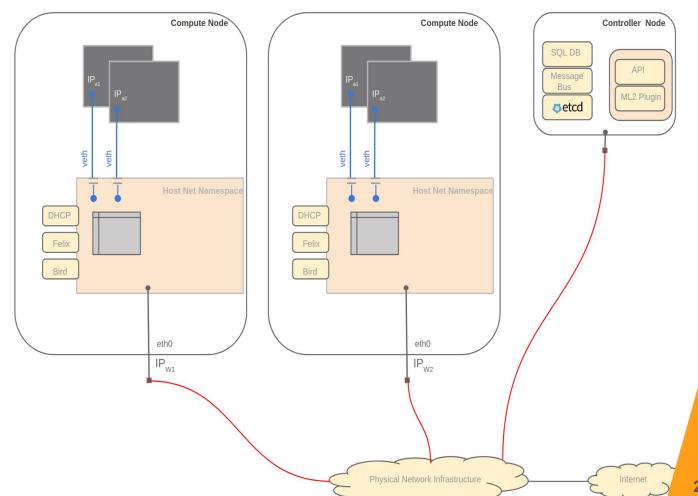
Neutron with OVS



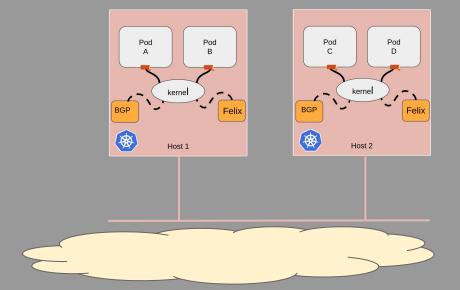


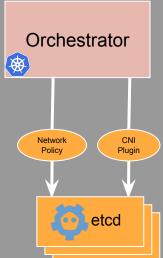
Neutron with Calico



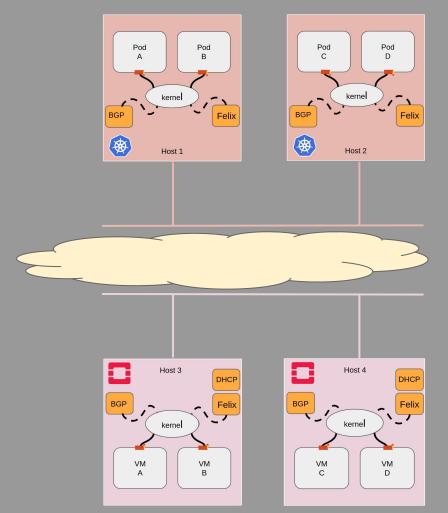


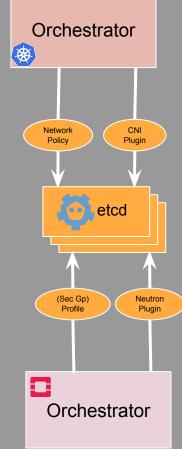
Connect Kubernetes



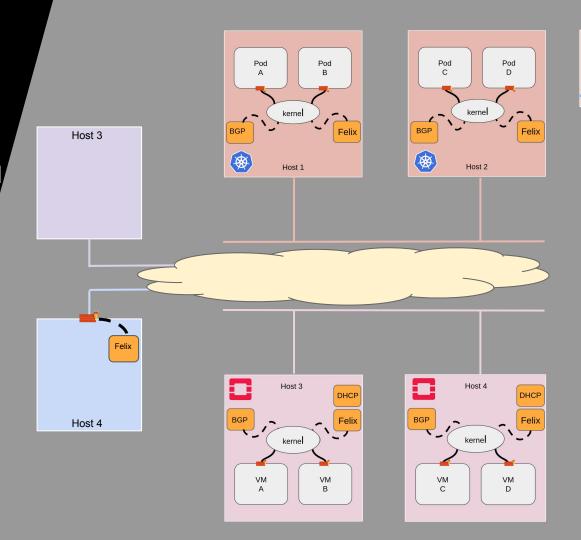


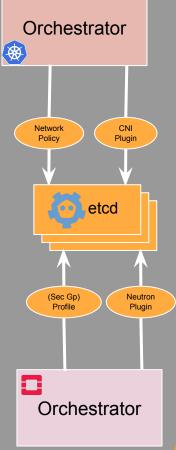
Connect Kubernetes with OpenStack





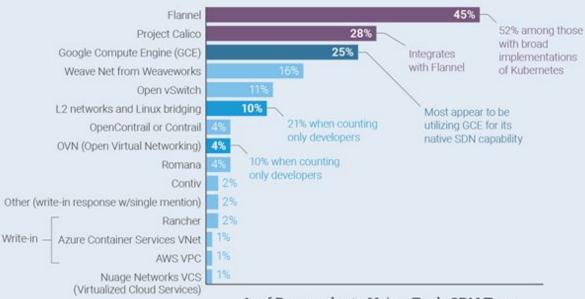
Connect
Kubernetes
with
OpenStack
and
BM/VM/Cloud
Instances





CALICO LEADS IN COMMUNITY ADOPTION

Software-Defined Networking Used With Kubernetes



% of Respondents Using Each SDN Type (including those using multiple)

Source: The New Stack 2017 Kubernetes User Experience Survey.

Q. What is being used for software-defined networking (SDN) in your Kubernetes implementations? Select all that apply. n=197.

THENEWSTACK



Farrel Informational [Page 4]

RFC 8140 ASCII Art

2.2. The Unicorn Rampant

Many things in the IETF rely on majick. Without pixie dust or other artful contributions from the world of faerie, it is unlikely that the Internet would work at all.

1 April 2017

Software Defined Networking (SDN) is a concept whereby complex and devious networks may be subjugated to the will of a sorcerer (or an opensourcerer as they are sometimes know). Fundamental to the body of an SDN is the Path Computation Element (PCE) [RFC7399]. Essential to the proper function of the PCE is the Unicorn that roams the dark wood of the Traffic Engineering Database, rearing up and spearing unwitting paths on the horn of its intellect.

Unicorns, it is claimed, can only be captured by the pure of heart who have never operated a real network.

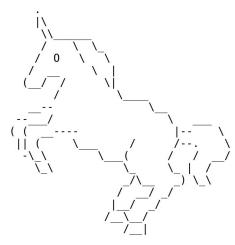


Figure 2: A Unicorn in Rampant State

Links

https://projectcalico.org https://tigera.io/contact

https://tigera.io/training

@worldhopper



