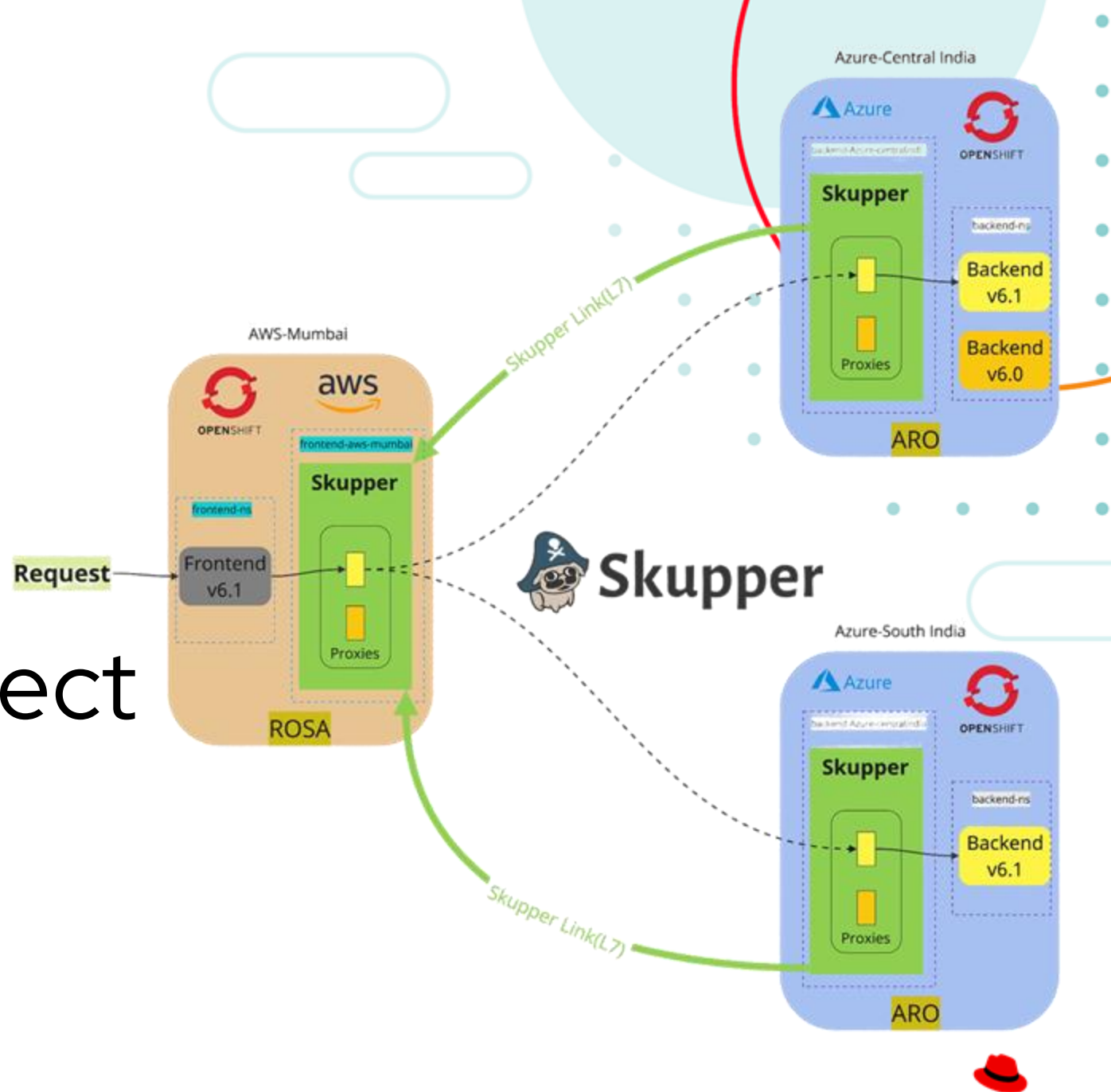




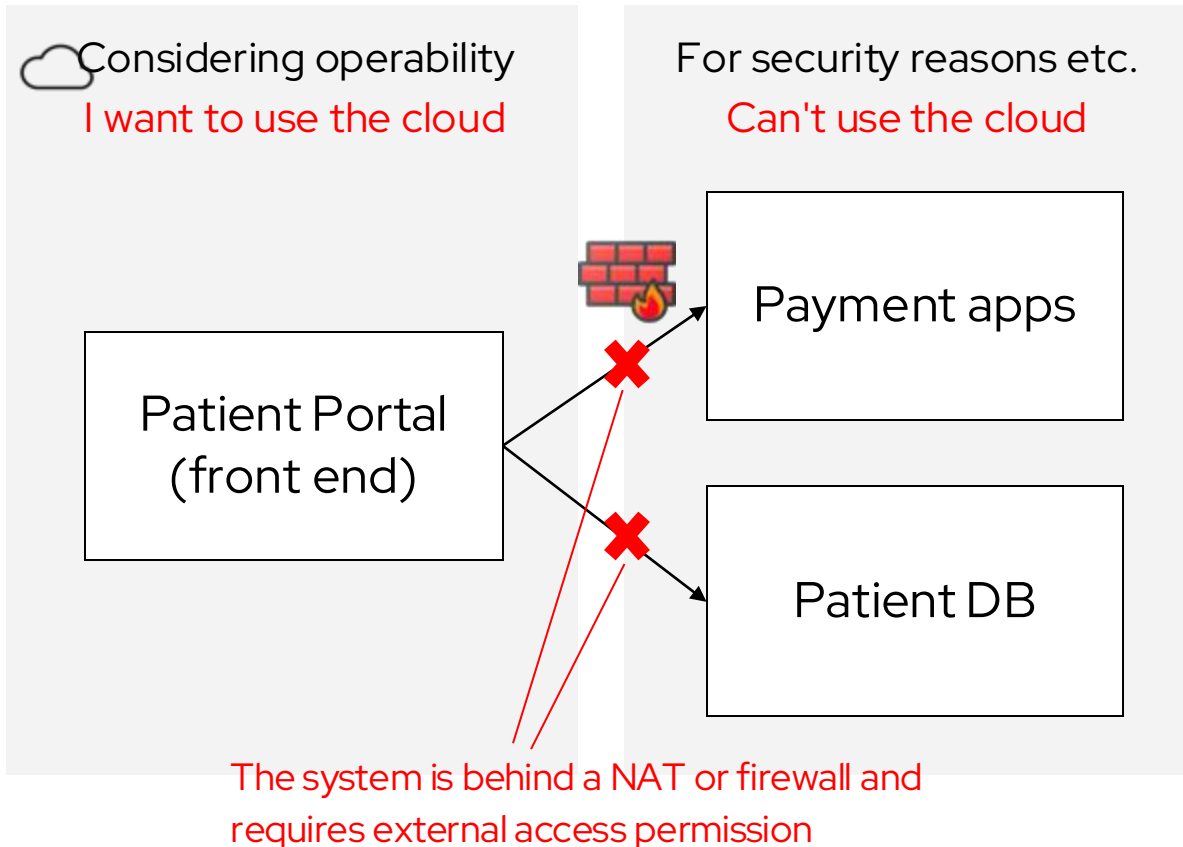
Connect

Red Hat Service Interconnect

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Have you ever had any of these problems?



Considering a VPN connection...

The NW team's setting requests are not supported by the appli development team only. But that adjustment **takes time**.

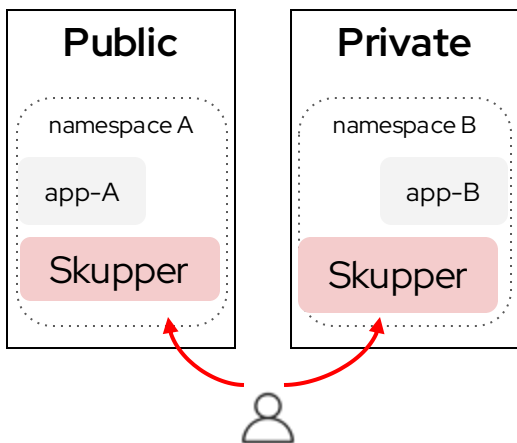
- We want to enable self-service integration between applications running in different environments by our app development team.
- Security should also be taken into consideration
- I want to set it up easily and quickly, even if I don't have any network knowledge.



Easy setup in 4 steps

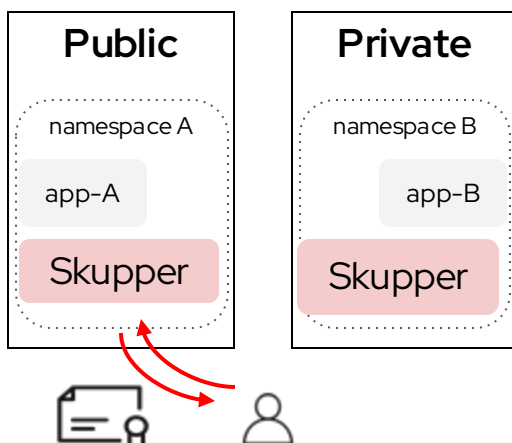
No need to change network settings; app developers can easily set it up themselves

STEP 1 Initializing Skupper



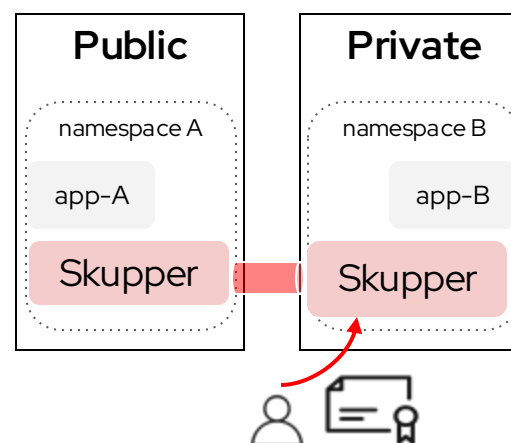
```
$ skupper init
```

STEP 2 Token Generation



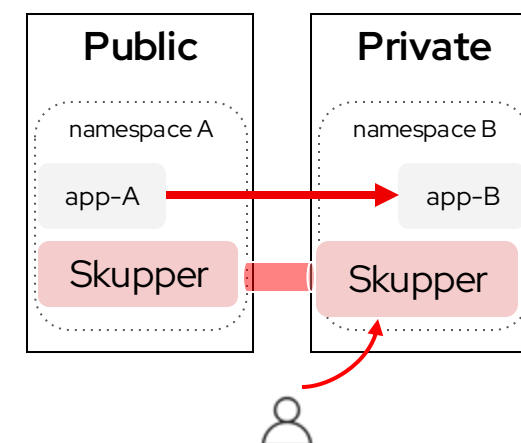
```
$ skupper token create
```

STEP 3 Link Generation



```
$ skupper link create
```

STEP 4 Service publishing



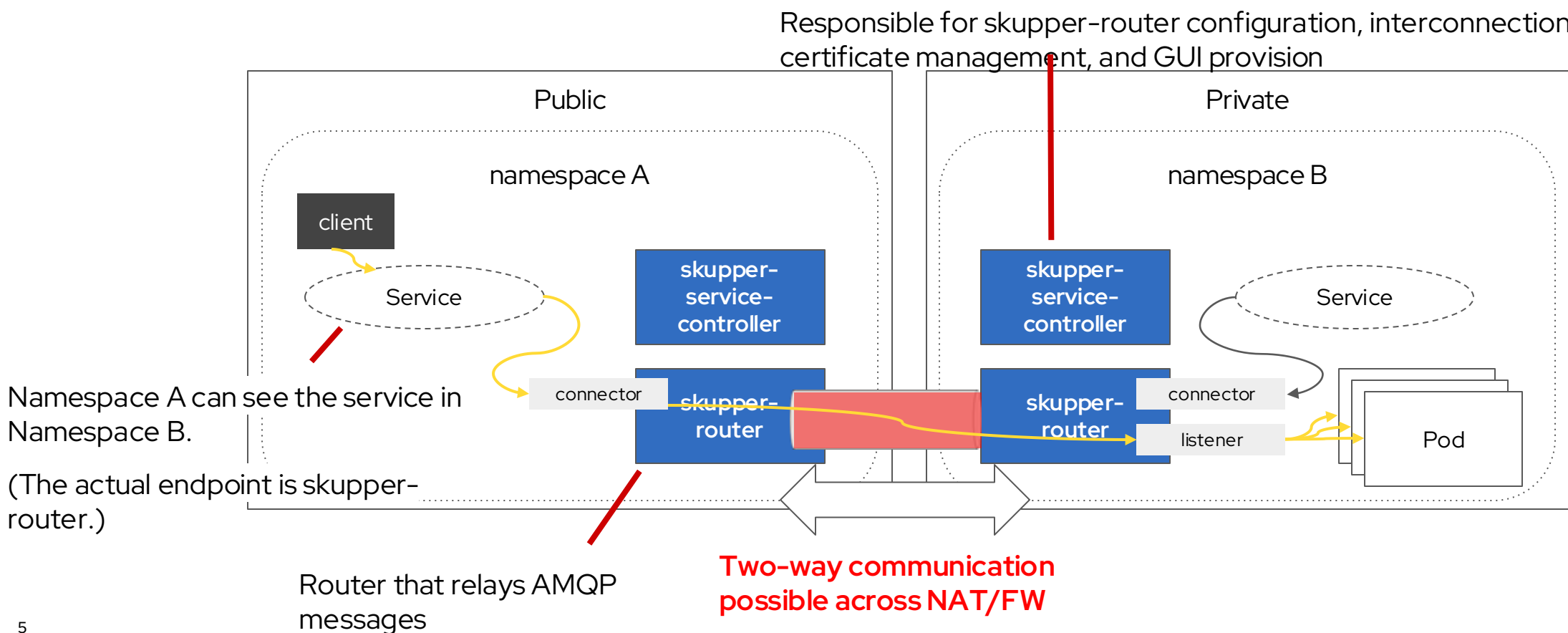
```
$ skupper expose service app-b
```

Deploy to the Namespace where the target application runs



Reference: Red Hat Service Interconnect configuration overview

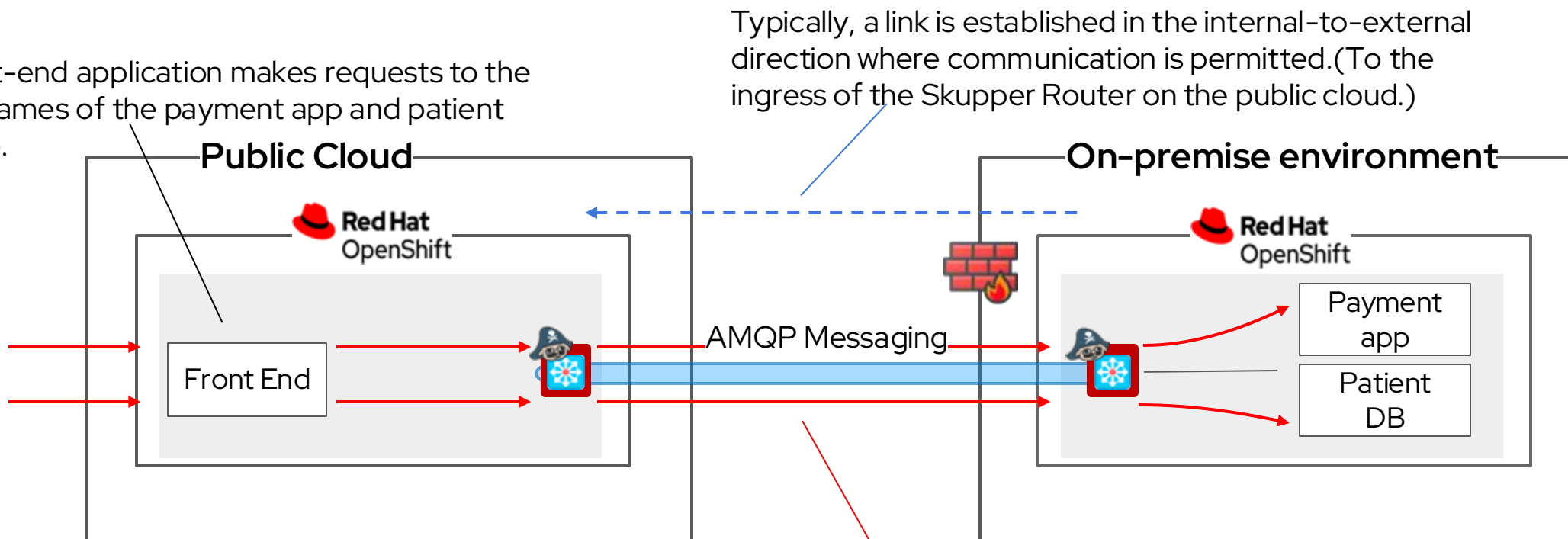
Skupper routes application communication over AMQP



For example, in the previous system

Access from a cloud Front End while keeping personal information in a private environment

The front-end application makes requests to the service names of the payment app and patient database.



Typically, a link is established in the internal-to-external direction where communication is permitted. (To the ingress of the Skupper Router on the public cloud.)

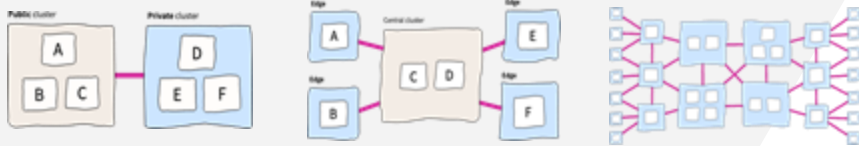
External-to-internal connections are possible.

(No NAT or FW configuration changes required.)



Reference. VAN: Virtual Application Network

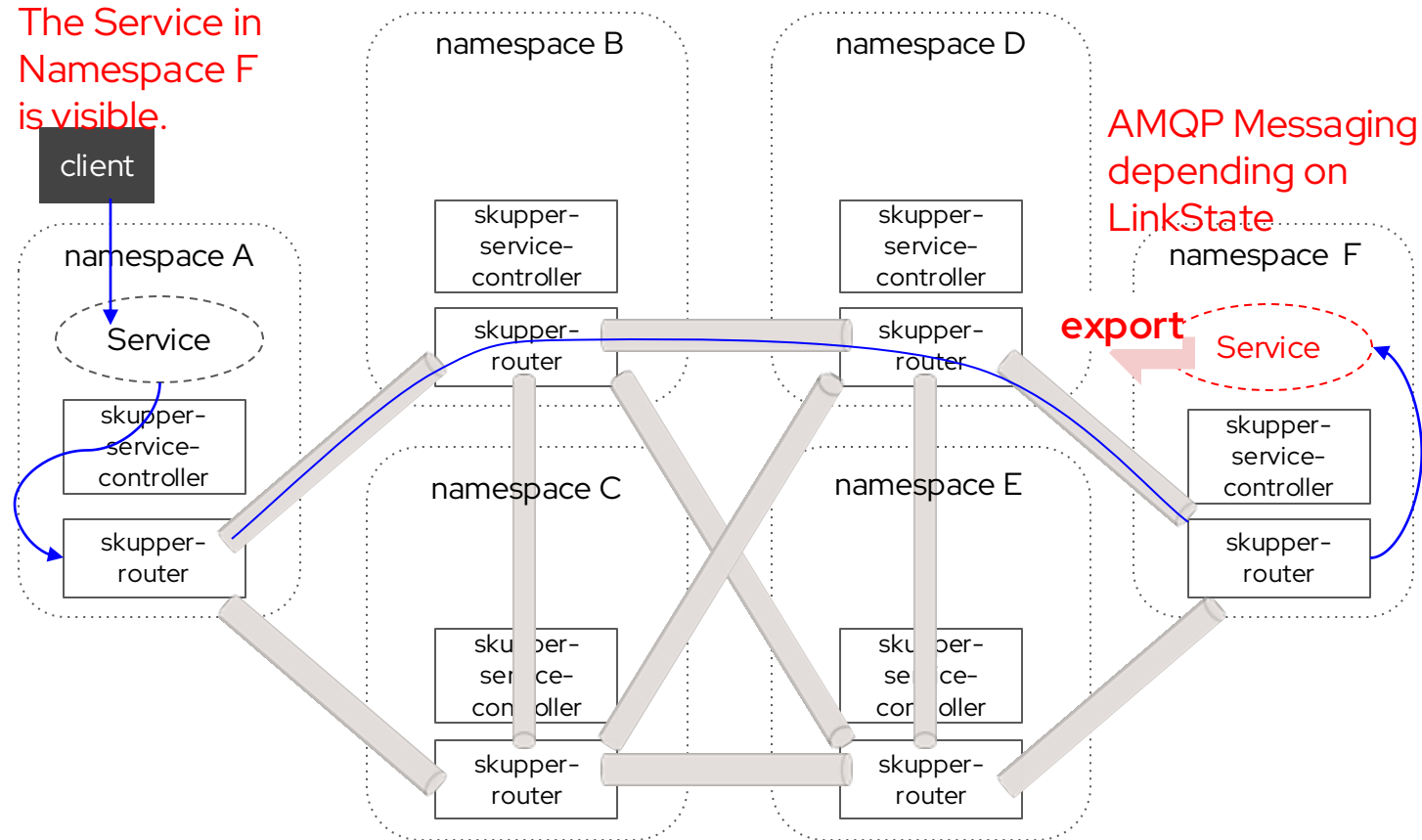
Skupper can be configured in a variety of network topologies, including mesh and hub-and-spoke.



A network configured using multiple Skupper Routers is called a "VAN (Virtual Application Network)."

If a route failure occurs on a VAN, the shortest route is recalculated based on the link state. (This uses an algorithm similar to OSPF.)

The Service in Namespace F is visible.





Connect

Thank you



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<https://piotrminkowski.com/2023/08/04/kubernetes-multicloud-load-balancing-with-skupper/>

