TELNYX

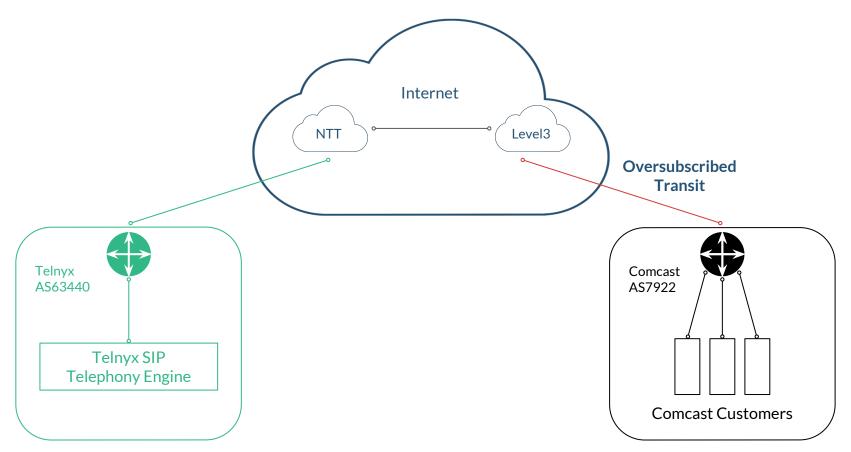
May 2017



Real Time Communications over the Internet is not a solved problem



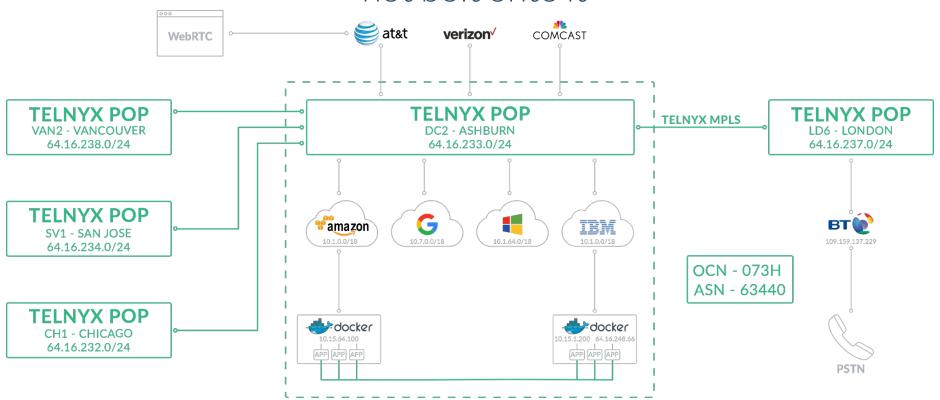
Access via Transit



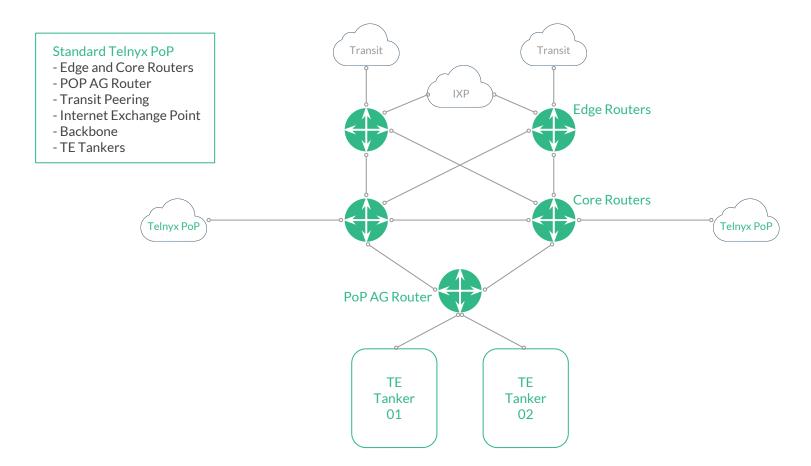
We've built a phone company with the Internet in mind



Our infrastructure is designed to displace the PSTN, not bolt onto it



Telnyx Point of Presence (PoP)



Standard Telnyx PoP

- Edge and Core Routers



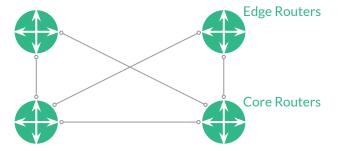




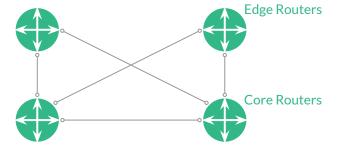


Standard Telnyx PoP

- Edge and Core Routers

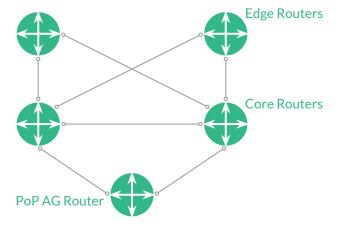


- Edge and Core Routers
- PoP AG Router

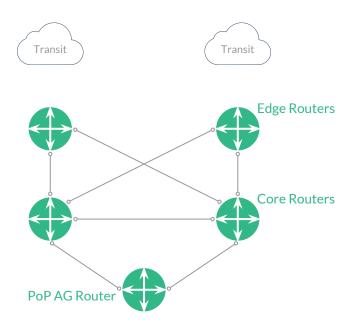




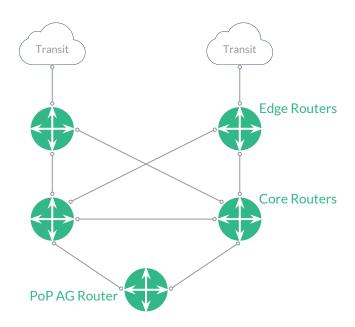
- Edge and Core Routers
- PoP AG Router



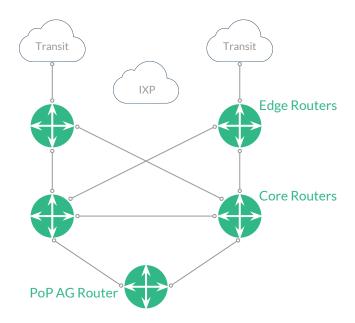
- Edge and Core Routers
- PoP AG Router
- Transit Peering



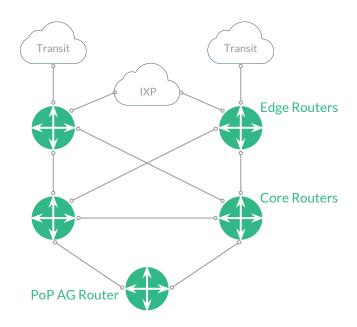
- Edge and Core Routers
- PoP AG Router
- Transit Peering



- Edge and Core Routers
- PoP AG Router
- Transit Peering
- Internet Exchange Point

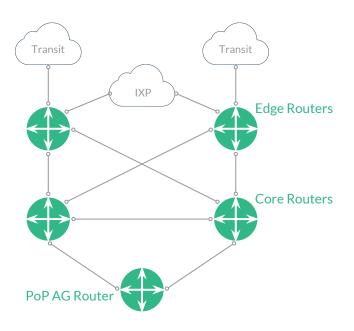


- Edge and Core Routers
- PoP AG Router
- Transit Peering
- Internet Exchange Point



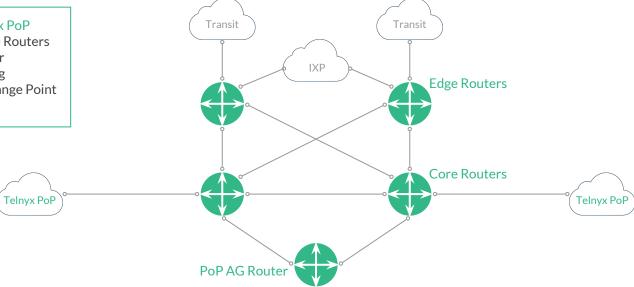
- Edge and Core Routers
- PoP AG Router
- Transit Peering
- Internet Exchange Point
- Backbone





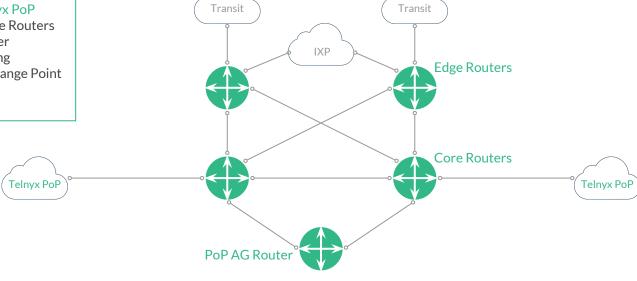


- Edge and Core Routers
- PoP AG Router
- Transit Peering
- Internet Exchange Point
- Backbone

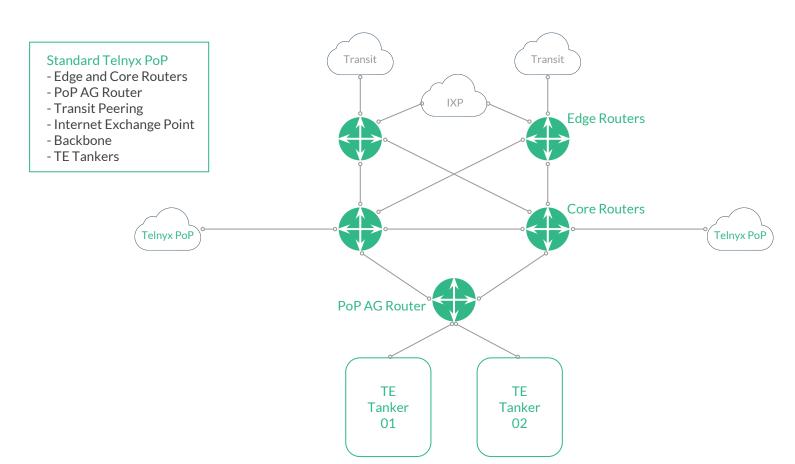


Standard Telnyx PoP

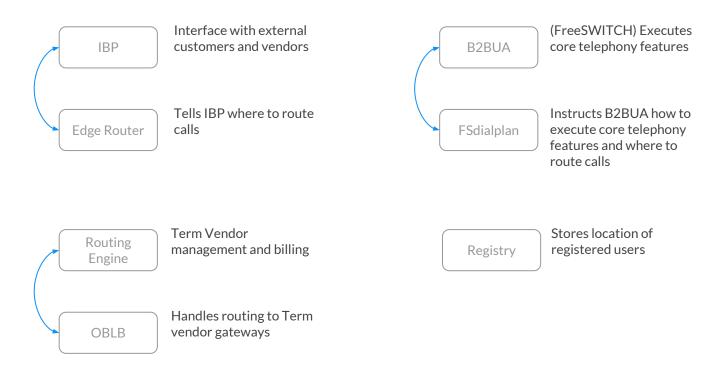
- Edge and Core Routers
- PoP AG Router
- Transit Peering
- Internet Exchange Point
- Backbone
- TE Tankers



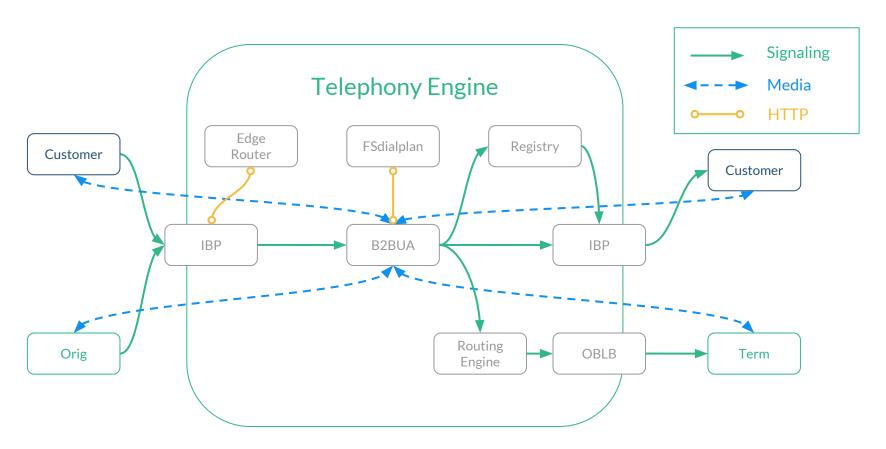
TE Tanker 01 TE Tanker 02



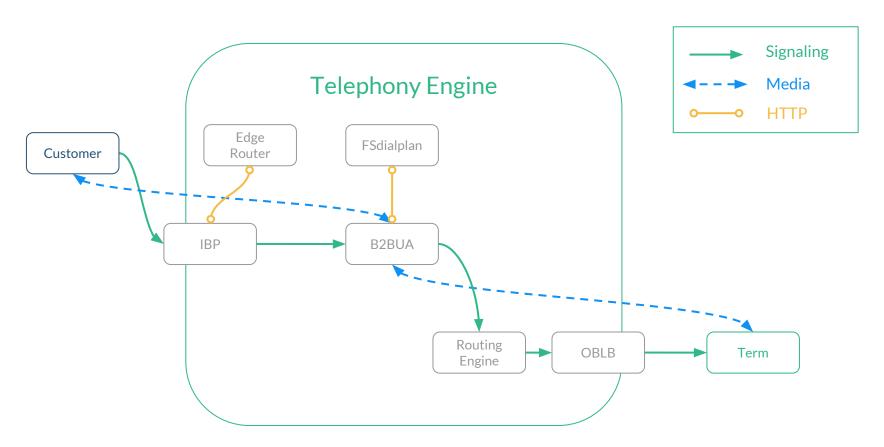
Telephony Engine Components



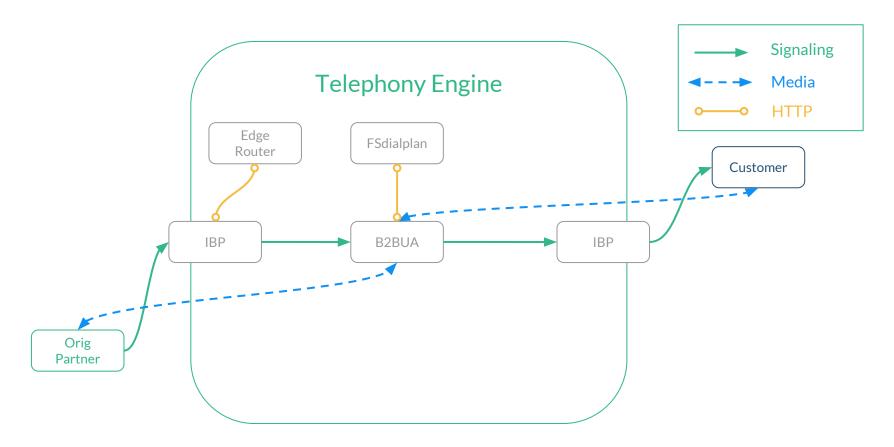
Telephony Engine Architecture



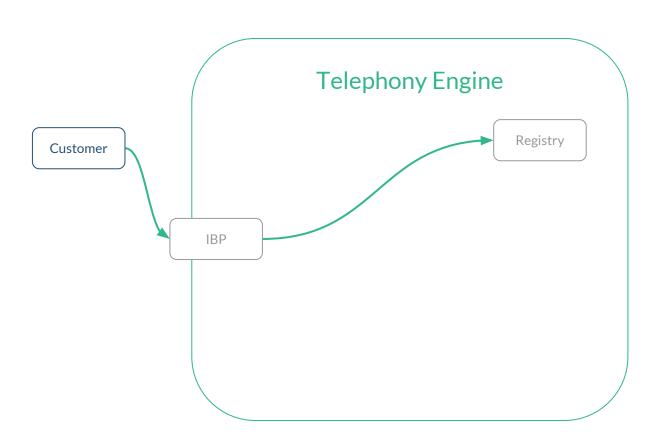
Telephony Engine **TERM Flow**

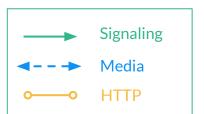


Telephony Engine ORIG Flow (IP auth)

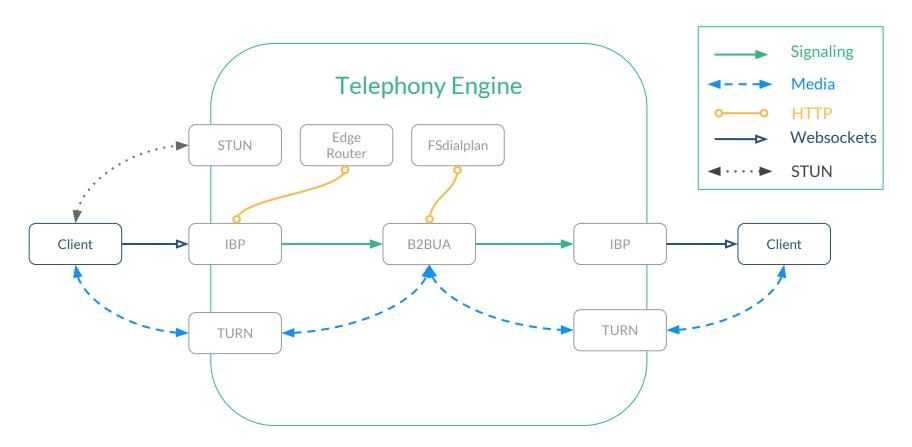


Telephony Engine **REG Flow**

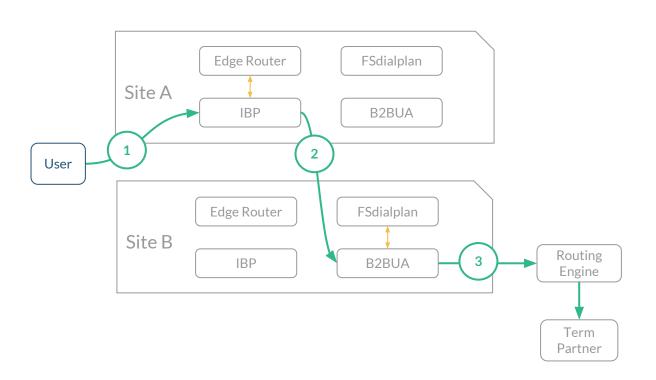




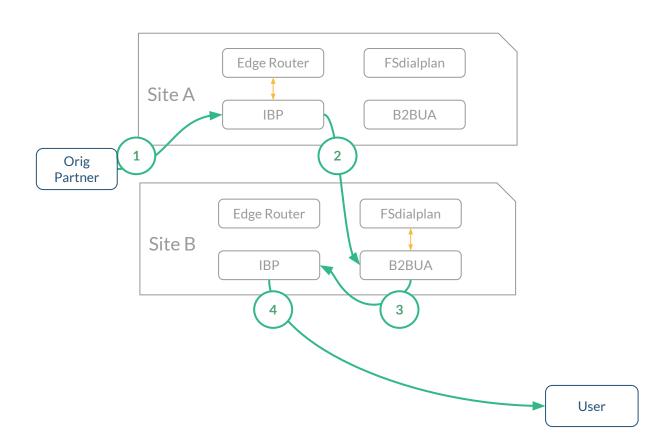
Telephony Engine WebRTC Flow

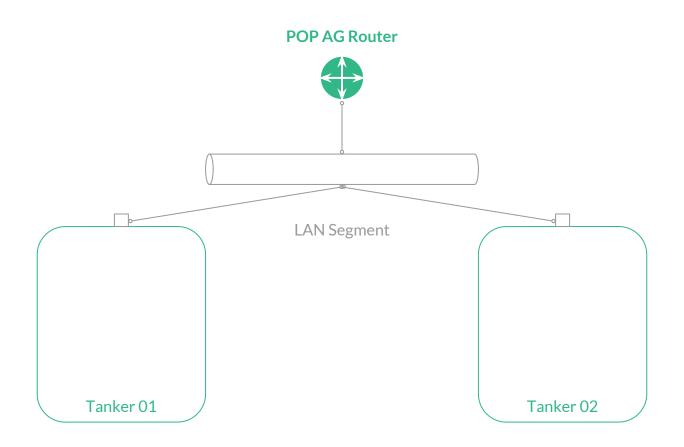


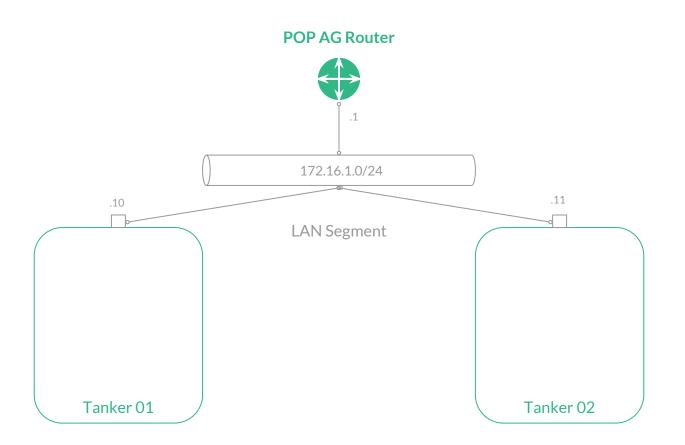
Telephony Engine **TERM anycast + multi-site**

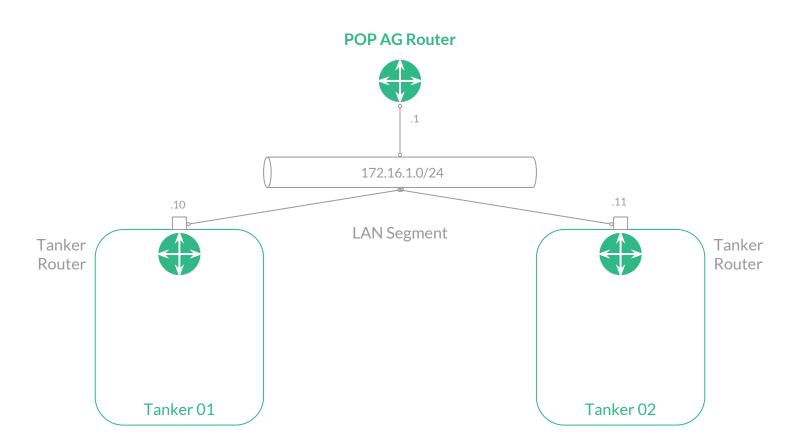


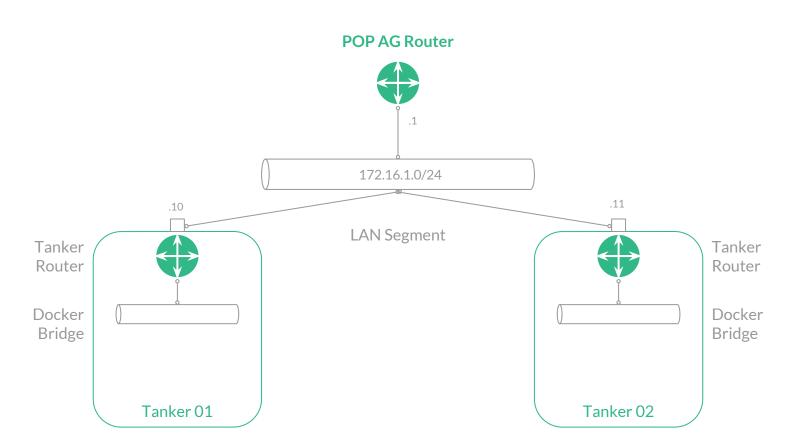
Telephony Engine ORIG anycast + multi-site (IP auth)

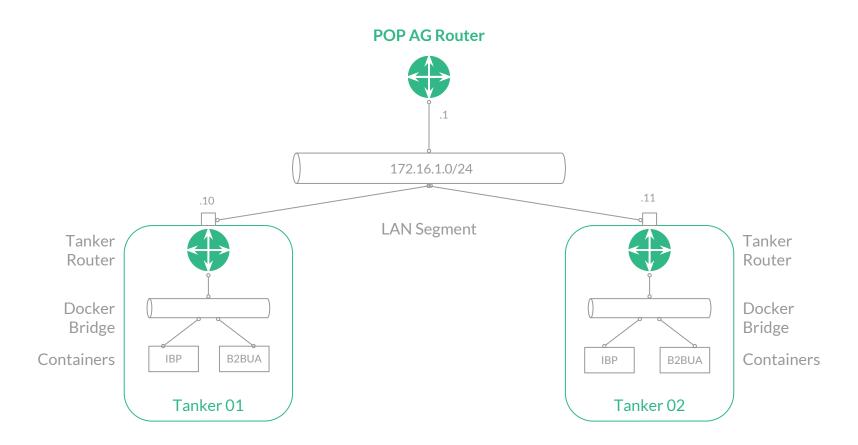


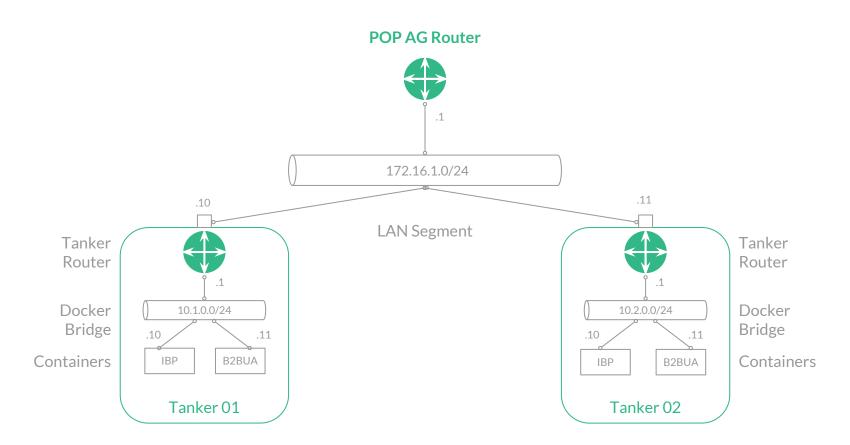












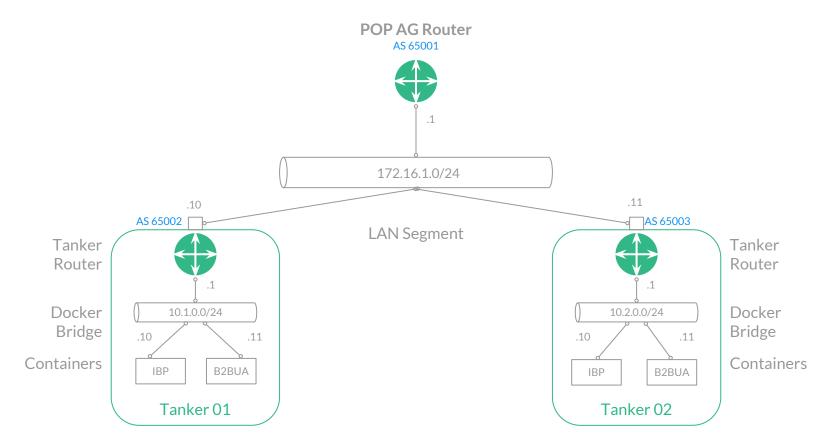


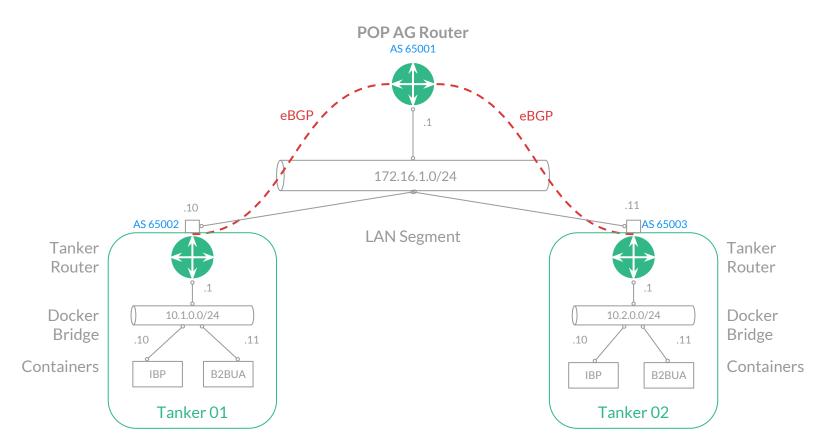
Building the Tanker-Router

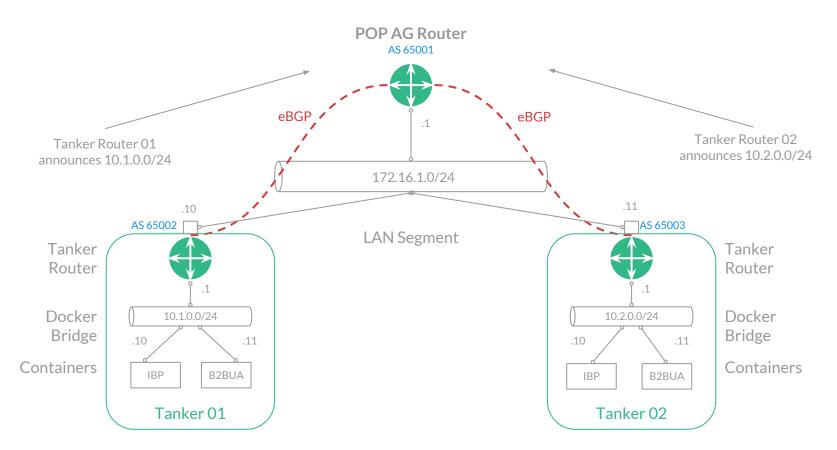


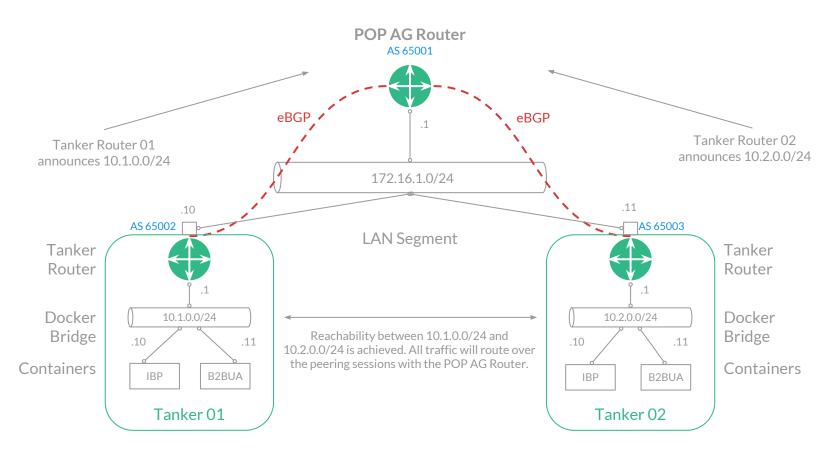
Building the Tanker-Router

- Routing daemon to turn the tanker into a router
- Peer sessions with upstream nodes
- Announce the docker bridges
- Achieve reachability





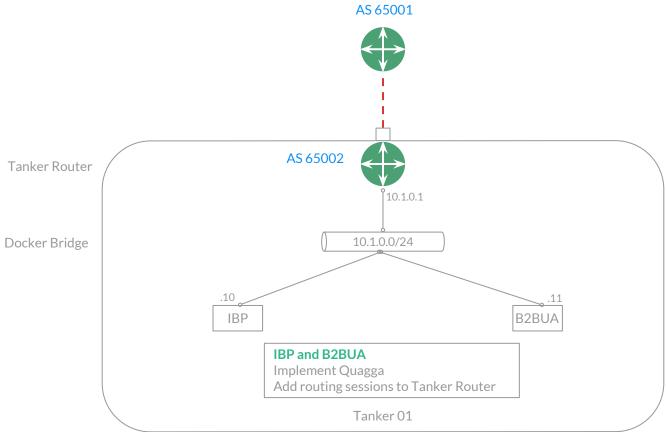




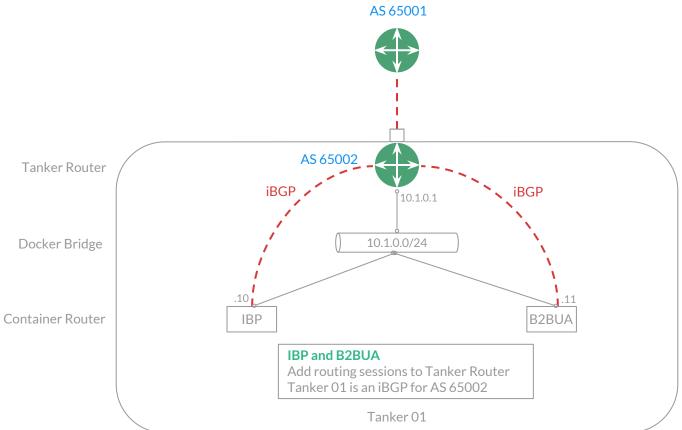


Let's take routing a step further and build into the container...

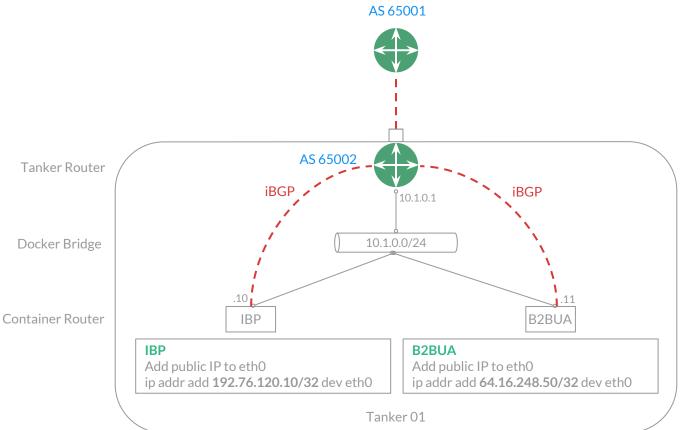




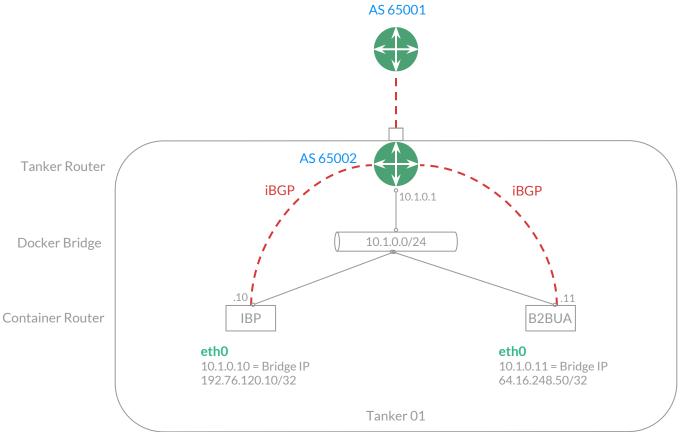




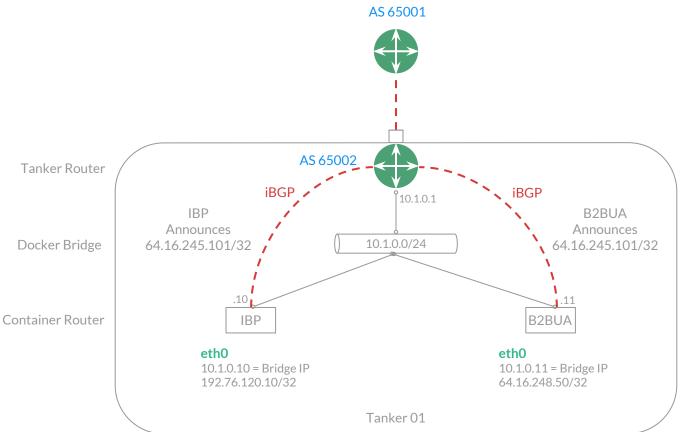












Summary

