



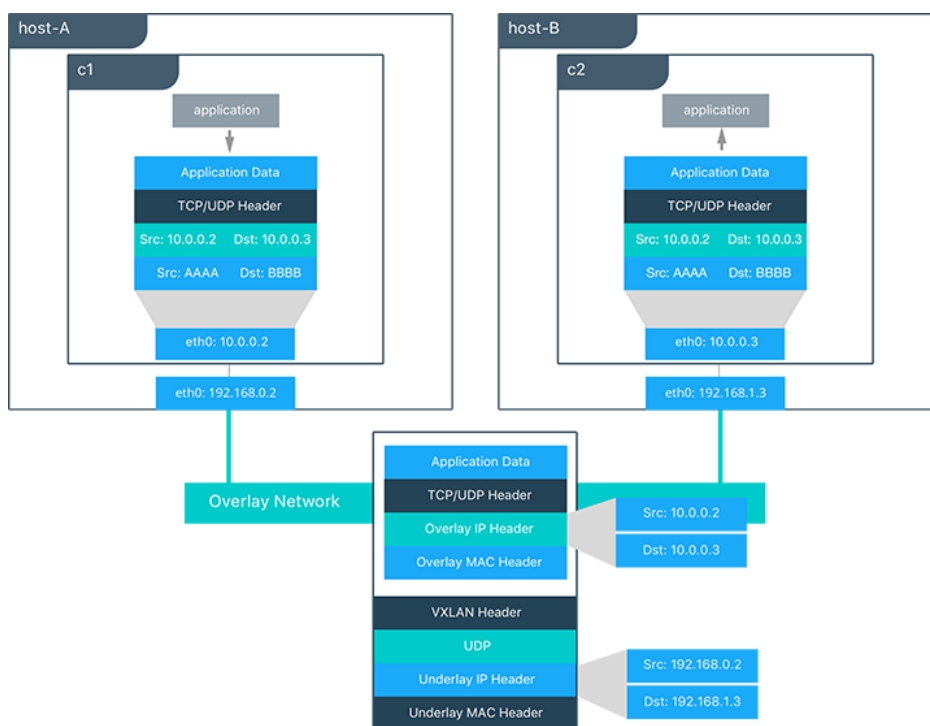
OCTOBER 7, 2019

Docker Networking Series – II Overlay Networks

Overlay Network Driver

- Refer [Here](#) for Docker Swarm related info.
- Docker Swarm uses overlay networking to communicate between multiple Docker Hosts.
- In this series lets try to understand concepts of the Docker Overlay Network Driver

How Packets flow through the Overlay Network Driver



In this diagram, the packet flow on an overlay network is shown. Here are the steps that take place when c1 sends c2 packets across their shared overlay network:

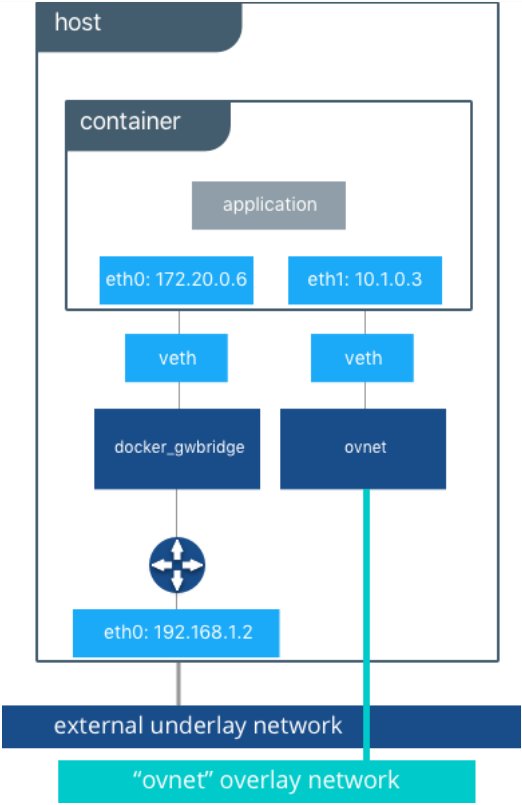
- * c1 does a DNS lookup for c2. Since both containers are on the same overlay network the
- * An overlay network is a L2 segment so c1 generates an L2 frame destined for the MAC add
- * If this is the first time c1 has contacted c2, c1 issues an ARP request for c2, which i
- * The frame is encapsulated with a VXLAN header by the overlay network driver. The distri
- * Once encapsulated the packet is sent. The physical network is responsible of routing or
- * The packet arrives at the eth0 interface of host-B and is decapsulated by the overlay n

- When you create overlay network as mentioned in the swarm series, two network drivers are create
 - Overlay: This points to the overlay network
 - docker_gwbridge: The egress bridge is for traffic leaving the cluster. only one docker_gwbride exists per host. This bridge is used for ingress/egress communications not for container to container communications with in overlay.
- The underlying internal architecture look like this

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- Refer [\[here\]](#) for overlay networking tutorial.

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