
DECEMBER 19, 2016

NETWORKING WORKING GROUP



DC/OS

WORKING GROUP LEADS



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RESOURCES



Mailing List: networking-wg@dcos.io
([Google Group](#))



Slack: [#networking-wg](#)
chat.dcos.io



Github Repo: [dcos/community/wg-networking](https://github.com/dcos/community/wg-networking)



Working Group Meetings Calendar:
[Google Calendar](#)

DEC 19

AGENDA

- Charter for this working group and where we currently stand with the existing work
- DC/OS 1.9 preview: features that are coming and how to help test and validate
- DC/OS 1.10 roadmap exploration
- Proposed meeting schedule for Jan and Feb
- Q&A

Networking support in DC/OS

Three main areas of focus:

- **Layer 3: IP Connectivity**
- **Layer 4: Load Balancing**
- **Service Discovery**

Layer 3: IP Connectivity

- **Named virtual networks**: CNI and CNM support in DC/OS
 - Introduced in Mesos 1.0: <https://goo.gl/HcmWGT>
- **DC/OS Overlay**: A prototype for a virtual network.
 - <https://github.com/dcos/dcos-mesos-modules/overlay>
 - <https://github.com/dcos/navstar>

Layer 4: Load balancing

- **Minuteman:** A distributed east-west load balancer.
 - <https://github.com/dcos/minuteman>
- **Name-based VIPs:**
 - <https://docs.mesosphere.com/1.8/usage/service-discovery/load-balancing-vips/virtual-ip-addresses/>

Service Discovery

- **Mesos-dns:** A DNS resolver for containers on DC/OS.
 - <https://github.com/dcos/minuteman>
- **Spartan:** A distributed DNS proxy on DC/OS.
 - <https://github.com/dcos/spartan>

Networking in DC/OS 1.9 Preview

- **CNI support for pods**
- **Stability and scalability improvements for overlay and minuteman.**

Networking Roadmap

- **“BRIDGE” mode support for UCR.**
- **CNI configuration service.**
- **Per-container network statistics.**
- **IPv6 support for CNI and CNM**
- **Service chaining in CNI**

NETWORKING

PROPOSED MEETING SCHEDULE

Proposal:

- Bi-weekly calls to start
- Mondays at 11:00 PT, starting Jan 9

We can record all of the meetings and make them available, with the slides, in the repo.



DC/OS

Thank you!

Q&A