

2019-07-23 Technical Work Stream Meeting

Date

23 Jul 2019

Attendees

- VM (Vicky) Brasseur (she/her)
- Darien Hirotsu
- Francois Kleyhans
- Casey Cain
- Jan Gutter
- Monique van den Berg
- Frikkie Scholtz
- Pujita
- Soujanya
- Prabhjot Singh Sethi
- Jarek Lukow
- Magda Zaremba
- Sukhdev Kapur
- Heinrich Kuhn
- Subbu
- Daniel Pono Takamori
- Alex Levine

Agenda

- Start the Recording
- Antitrust Policy
- Agenda Bashing (Roll Call, Action Items (5 minutes))
- General Topics
 - update VSPERF
 - update on using dpdk upstream
 - update on proposal for re-branding contrail to tungsten
 - future
 - upgrade/move between Contrail and Tungsten Fabric
 - CNI DPDK support vrouter
 - Demo Ideas for ONS Europe

Minutes

- Action items
 - SK: Work w/Joseph on perf stuff...?
 - Joseph named a replacement, but need to invite this person to the Infra calls
 - SK: Blueprint process
 - Having a lot of discussions internally at Juniper
 - Goal to publish blueprints, but need more resources
 - Close to working with Pono to get workflow alignment
 - Darien: Server availability for vrouter standalone testing
 - Nothing readily available
 - Team working to get stuff available
 - Will send update by Thursday this week
- VSPERF
 - No updates. PS has been trying to get responses from that team but none yet
 - Will follow up more
 - Blocking: using 2 versions of dpdk
 - But patch to use upstream has landed
 - Prabhjot will follow up with Randy & this group more when he has info
- dpdk upstream
 - Patch merged to master
 - PS working on getting docs done
 - Will coordinate with Docs group on that
- Code rebranding effort
 - contrail tf
 - Looking to modify artefacts first, naming appropriately
 - Will have more info in TSC call on Thursday
- Docs
 - If you're adding a feature, you're required to include docs

- The future of TF
 - Move between TF & Contrail should be possible: How can the community help ensure this?
 - Should be able to migrate between TF & Contrail
 - Before that, need to bring the migration/upgrade process into the community branch
 - Should be possible, but hasn't been tested
 - For instance, no docs to migrate from TF 5.0 to 5.1
 - CNI dpdk support vrouter
 - Sukhdev spoke w/Anand Sunday evening. A is looking into jumping into this. SK has asked him to collaborate w/community
 - dpdk support for containers/pods
 - PS: Not only will get this into the community support, but also could help w/dpdk transition and perf improvement
 - PS will collaborate w/Anand
 - Anyone else who's interested should jump into the mailing list thread
- PS will bring proposal document in next meeting (he hopes)
- Sukhdev: Service chaining
 - Juniper customers are asking questions about this
 - This is already available for VMs
 - SK thinks it's also there for containers/pods
 - SK will have Contrail security expert join the meeting in August to talk about this stuff (as well as about Contrail security)
- ONS EU demo ideas
 - Demo proposal deadline is July 31
 - PS suggests service chaining as an idea for TF
 - What other ideas?
 - jluk: Codillime giving a talk w/Magdalena about service chaining in cloud native; considering an LFN booth demo on this as well
 - Will share proposal here for collaboration
 - Working to integrate another LFN project; could use some brainstorming on this
 - SK: NSM demo?
 - Not a lot of time to coordinate w/NSM
 - VMB: Propose, please! Great idea. (Casey: +1!)
 - SK: Smart NIC?
 - Jan: Things still working through testing; nothing too new
 - SK: Would be good to show perf improvements
 - Jan: Will run it through internally & see what folks say
 - jluk: smartnic connections to pods?
 - Jan: Investigating this now. 😊
 - Upstream k8s uses multus to switch between different providers
 - TF k8s driver works a bit differently
 - Good news is that plugin logic in openstack appears transferrable, but don't know...
 - Schedule workloads on k8s
 - Handle things efficiently
 - etc
 - At the very least, some of the plugin code needs to move into the CNI plugin
 - Connect virtual function into the pod
 - Would work the same (but implement slightly differently) in k8s & openstack
 - So nothing to demo here yet
- DH: More info about 5.0 5.1 upgrades? What's ATS working on here?
 - Nothing in flight right now
 - Has been mentioned on TSC calls as a priority
 - Before migrating between TF & Contrail, need to be able to upgrade TF itself
 - SK: There are 2 or 3 upgrade procedures for Contrail
 - ISSU, etc
 - Don't think it's documented publicly, but may be on Juniper website
 - PS: Are deployment artefacts for Contrail public right now?
 - Would need access to these to test it
 - SK: Yes, this is available.
 - Upgrade procedure
 - Some containers are private (just the commercial stuff)
 - Commercial customers typically use RHOSP (RedHat upgrades it for them)
 - But procedures and containers should be the same for public & private consumption
 - DH: GSoC project is working on this
 - Upgrade from 5.0 to 5.1
 - Will be some documentation coming out of this

Action items

