CNTT - CNCF TUG F2F workshop in KubeCon NA 2019

- Logistics
- RFC: Brainstorming agenda items (add your name if you volunteer to present a topic (we can have more presenters for one topic))

Requesting potential agenda items, topics of discussion and lighting talk speakers.

Logistics

- Valid registration to **KubeCon** is needed for on site participation
- Remote (audio-only) participation is possible via this Zoom: [https://zoom.us/j/297749799](https://zoom.us/j/297749799)
- RSVP link: [https://forms.gle/VahVc9WVPNGMdkg9p](https://forms.gle/VahVc9WVPNGMdkg9p)
- Google Slides: [https://docs.google.com/presentation/d/1gKUshVGSDvMr7pPtyG0U09mn0XFEdLXPydByjXcyp7s](https://docs.google.com/presentation/d/1gKUshVGSDvMr7pPtyG0U09mn0XFEdLXPydByjXcyp7s)

**Notes:**
- On wiki: Notes from CNTT - CNCF TUG F2F workshop in KubeCon NA 2019
- On Google Docs: [https://docs.google.com/document/d/1bCKhutfNmA7z1k31N-SNvjaSa7cRCCacqjgtZgb8Nmls/edit#](https://docs.google.com/document/d/1bCKhutfNmA7z1k31N-SNvjaSa7cRCCacqjgtZgb8Nmls/edit#)

**Joint TUG/CNTT Meeting Part 1**
- Date/Time: Monday, November 18, 4:30pm - 6:30pm
- Location:
  - San Diego Convention Center
  - Meeting room 17B, Mezzanine level
  - Capacity: 100
- **Agenda for Joint TUG/CNTT Meeting Part 1**
  - **Overview of TUG and CNTT groups**
  - **Interactive workshops/discussions**
    - Review of Chapter 1 of TUG Whitepaper
    - CNTT Cloud Native Reference Architecture (RA2)
      - Validation of the ToC of RA2. Are we discussing the right topics in RA2? (Gergely Csatari, Tom Kivlin)
      - Reference Architecture table of contents
      - Cloud native
      - Validation of the principles we have in RA2 (Tom Kivlin)
      - Validation of the different chapter content of RA2 (Tom Kivlin)
      - Validation of gaps if we have any (Tom Kivlin)
  - **Break**
  - **Interactive workshops/discussions**
    - LFN OVP compliance and validation
    - Scoping of a RI-2 based on RA-2 (Tom Kivlin)
    - Where is this going? What needs to be added, updated, and/or removed to support K8s based platforms? (Tom Kivlin, Jim Baker)
    - ONAP collaboration with CNCF for test automation (Lingli Deng)
  - **ONAP TSC/CNCF TUG meetup** (Lingli Deng, Srinivasa Addepalli, ramki krishnan)

**Join TUG/CNTT Meeting Part 2**
- Date/Time: Wednesday, November 20: 4:30pm - 6:30pm NOTE THIS MEETING TIME HAS BEEN UPDATED
- Location:
  - San Diego Convention Center
  - Meeting room 2, Upper level
  - Capacity: 160
- RSVP link: [https://forms.gle/VahVc9WVPNGMdkg9p](https://forms.gle/VahVc9WVPNGMdkg9p)
- Please indicate your participation here
- **Agenda for Joint TUG/CNTT Meeting Part 2**
  - **Overview of TUG and CNTT groups**
  - On-going communications/check points (Gergely Csatari)
  - **Lightning talks**
    - External boundary conditions (Gergely Csatari)
    - Motivations to use Kubernetes in telco (Gergely Csatari, Tom Kivlin)
    - OVP Automation with ONAP (Lingli Deng)
    - Intro to the NSM (Nikolay Nikolaev)
    - Performance testing of NSM and CNFs using Meshery - Lee Calcote
    - Cloud native security and intrusion detection - Kris Nova
    - X-factor CNF Methodology - Frederick Kautz
    - Tungsten Fabric - Sukhdev Kapur
    - ONAP/Akplain Edge Initiative - ramki krishnan, Srinivasa Addepalli
  - **Break**
  - Lessons learned from cloud native 5G Kubecon demo (Heather Kirksey + Azhar, Hanen and demo team)
  - **Panel: Cloud Native for Telecoms**
    - Daniel Bernier - Bell Canada
    - Frederick Kautz - doc.ai, Network Service Mesh (CNCF Sandbox project)
    - Kris Nova - Sysdig, Falco (CNCF Sandbox project)
    - Tom Kivlin - Vodafone
RFC: Brainstorming agenda items (add your name if you volunteer to present a topic (we can have more presenters for one topic))

- Overview of TUG and CNTT
- CNTT Cloud Native Reference Architecture (RA2)
  - Motivations to use Kubernetes in telco (Gergely Csatari Tom Kivlin)
  - Environment where we are using the infrastructure (bare metal/on top of a private cloud/public cloud) (Gergely Csatari)
  - External rules (ANSSI for network separation, hard multitenancy, nines, microseconds) (Gergely Csatari)
  - Validation of the ToC of RA2. Are we discussing the right topics in RA2? (Gergely Csatari Tom Kivlin)
    - Reference Architecture table of contents
    - Cloud native
  - Validation of the principles we have in RA2 (Tom Kivlin)
  - Validation of the different chapter content of RA2 (Tom Kivlin)
  - Validation of gaps if we have any (Tom Kivlin) Are we asking the right questions?
  - Interactive Q/A and feedback?
- LFN OVP compliance and validation
  - Where is this going? What needs to be added, updated, and/or removed to support K8s based platforms? What about hybrid platforms? (Tom Kivlin)
  - Scoping of a RI-2 based on RA-2 (Tom Kivlin)
  - Implementation and integration of RI-2
  - K8s test tool landscape and integration in OVP tooling
  - ONAP collaboration with CNCF for test automation (Lingli Deng)
- Shared definitions between groups, examples:
  - CNF - what is a CNF or Cloud Native Network Function? (Gergely Csatari Tom Kivlin)
  - What criteria do Operators want for CNCF certified CNFs at each level (to be determined). Eg.
    - Gold CNF
    - Silver CNF
    - Bronze CNF
- Review of documentation from TUG (Taylor Carpenter)
  - Chapter 1 from WIP whitepaper Cloud Native Thinking for Telecommunications
  - WIP whitepaper Deploying Cloud Native Network Functions in a telecom service provider ecosystem
  - Cloud Native Principles reference documents (starting with the Cloud Native Networking Preamble)
  - RI-1 vs RI-2 Lab and POD discussions
  - See Telecom User Group Google Drive for more
- What are some ways to show achievements of CNTT and TUG collaboration?
  - On-going communications/check points (Gergely Csatari)
  - Marketing communications of the collaboration
- Panel on cloud native (Gergely Csatari Tom Kivlin)
- Lessons learned from cloud native 5G Kubecon demo (Heather Kirksey + Azhar, Hanen and demo team)
- ONAP TSC/CNCF TUG meetup (Lingli Deng Srinivasa Addepalli ramki krishnan)
  - Edge automation
  - Distributed intelligence
  - CNCF CNF Testbed
- Demo (Remote):
  - Testing OPNFV CNTT Pods (Airship 1.0)