Cross Project AI: Birds of Feather

Lingli Deng (China Mobile)
denglingli@chinamobile.com

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• Discussion: where does ONAP stands for network AI
• Status Review
  - Open Source
  - SDOs
• Collaboration in network AI: What is missing
Network intelligence is ALL about DCAE in ONAP?
IBM DevOps approach

Think: Conceptualization, refinement, and prioritization of capabilities.

Code: Generation, enhancement, optimization and testing of features.

Deliver: Automated production and delivery of offerings.

Run: Services, options and capabilities required to run.

Learn: Continuous learning based on outcomes from experiments.

Manage: Ongoing monitoring, support, and recovery of offerings.

The six phases of the DevOps lifecycle
Where intelligence is needed when devops a software network

- Network Planning
- VNF onboarding VNF/Service testing/certification
- Placement Configuration
- Continuous Improving
- Reactive CLs
- Proactive CLs

THINK
LEARN
CODE
CULTURE
NAGE
DELIVE
RUN
What have been demoed w. ONAP (partial list to be completed)

- **Network Planning**
  - VNF onboarding
  - VNF/Service testing/certification
  - SDC/VNFSDK/VVP
  - Test Automation

- **Continuous Improving**
  - DCAE w. Datalake
  - KPI Persistence in 5G Slicing UC

- **Reactive CLs**
  - DCAE/Holmes/Policy/VF-C
  - Self-Healing in VoLTE UC

- **Proactive CLs**
  - DCAE/Policy/SO
  - EPC Scaling PoC @ ONSNA2019
  - Power mgmt. PoC @ Kubecon2019

- **Placement**
  - Configuration
  - OOF/Policy/SO/VF-C
  - HPA in vCPE UC
  - NSI Selection in 5G Slicing UC

- **Real-time Network Optimization**
  - NWDAF PoC @ ONS-EU2019

- **THINK**: Network Planning

- **LEARN**: Continuous Improving
  - DCAE w. Datalake
  - KPI Persistence in 5G Slicing UC

- **MANAGE**: Reactive CLs
  - DCAE/Holmes/Policy/VF-C
  - Self-Healing in VoLTE UC

- **CODE**: Proactive CLs
  - DCAE/Policy/SO
  - EPC Scaling PoC @ ONSNA2019
  - Power mgmt. PoC @ Kubecon2019

- **DELIVE**: Placement
  - Configuration
  - OOF/Policy/SO/VF-C
  - HPA in vCPE UC
  - NSI Selection in 5G Slicing UC

- **RUN**: Real-time Network Optimization
  - NWDAF PoC @ ONS-EU2019

- **THINK**
- **LEARN**
- **MANAGE**
- **CODE**
- **DELIVE**
- **RUN**
What is missing: More Demos?

- Continuous Improving
- Reactive CLs
- Proactive CLs
- VNF onboarding
- VNF/Service testing/certification
- Placement
- Configuration
- Real-time Network Optimization
• Do I need to deploy ONAP as a whole to enable a specific demonstrated scenario?
• What types of scenarios would be supported if I adopt part/all ONAP compliant solutions?
• How would them interact with existing OSS system? Are there standards defined to follow to ensure interoperability?
Network intelligence is ALL about DCAE or Close Loop in ONAP?

No

• Focal Point for both internal and external Information Sharing or efforts convergence.
• ONAP-AI WG to maintain a Devops Pipeline for the growing PoCs/UCs/Platform/Ecosystem.
Organization Discussion

• We decided not to have a dedicated sub-committee for AI coordination
• We still need a focal point for both internal and external information exchange and efforts collaboration
• Join the kick-off discussion next week for creating ONAP-AI WG
  - Identify people, specify scope, establish process, and planning for Guilin
  - Participate time poll by Friday at https://www.doodle.com/poll/q46kat8dx8xyd9dv
Thank You

谢谢！