OCP
FUTURE TECHNOLOGIES SYMPOSIUM

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Route to Open Infrastructure Management (Panel Discussion)

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Sr. Principal Engineer, Intel Corporation

Panel Introduction

Company	Representative	Title
Facebook	Leandro Silva	Product Engineer
Google	George Kola	Staff Software Engineer
Microsoft	Gundrala Devender Goud	Sr. Director
Intel	Mohan J Kumar	Intel Fellow
Samsung	Changho Choi	Sr. Principal Engineer

Moderator: Sammy Nachimuthu, Intel Corporation

Opening Statements

- Format: initial discussion with the panel for 10mins, then 10mins Q&A from audience, 5mins closing remarks

- Currently cloud (DC/Edge/Enterprise/on-premise) compute infrastructure uses open standard based HW and SW as well as proprietary HW and SW

- In general, the management of infrastructure services uses many proprietary mechanisms

- We will discuss with panel on current state, challenges, research needs and route for open framework for management

Areas to touch upon

- Infrastructure Life-cycle management
- Infrastructure onboarding
  - Compute, Memory, Storage, Network, Accelerators, Security, Supply chain
- Operational
  - Power, Performance, FW updates, Telemetry, Reliability, Repair/maintenance, Security
- End of life management
- Open Standard needs

Questions – infrastructure onboarding

- Could you provide your viewpoint of what are the challenges in onboarding cloud infrastructure?
    - Touch on challenges in onboarding infrastructure, operational and end-of line
    - Are there any additional open standard would help?

Questions – infrastructure management

- Could you provide your viewpoint on challenges in integrating HW/technologies in Datacenter?

- What are the challenges in managing cloud infrastructure?

- What are the specific area of infrastructure management making it through open standard would be helpful?

- Telemetry data plays major role in infrastructure management. How Open standard and AI could help in this space?

Questions – open standard

- If we look at some of the past standards was not adopted widely

- In your opinion, what areas open infrastructure would hinder in/efficiencies?

- What way the open infrastructure could help, consumer and producers?

- How open infrastructure could promote innovations?

Questions - research

- We have seen many research papers published by individuals, companies and academia

- In your opinion, what areas of research are still needed to further improve infrastructure management?

- How can academia get involved more? Do we need more operational data publicly available to enable research?

Open for Q & A from audience

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