Welcome!

F5, Intel, Red Hat: Co-organizers
Open Programmable Infrastructure (OPI) Event
“Engineers are really good at labeling and branding things. If we had named ‘Kentucky Fried Chicken’, it would have been ‘Hot Dead Birds’

-- Vint Cerf
Welcome!

Open Programmable Infrastructure Event

(\textit{alpha edition})
Cloud to Edge Programmability

Shift to Software Defined, Programmable Networks

Cloud Data Center

Core Network

Network Edge

On-Premise Edge

Edge Devices & Things

- Cloud Data Center
- Core Network
- Network Edge
- On-Premise Edge
- Edge Devices & Things

- Silicon photonics
- Ethernet switch
- IPU / DPU NIC
- NFV workloads
- CPUs/IPUs/DPUs for routers
- CPU, IPU/DPU NIC
- CPU, IPU/DPU, NIC, FlexRAN
- CPU, IPU/DPU, NIC, SmartEdge
- RAN Hub
- Hosting services
- Colocated with Telco Edge
- Hosting services
- CPU, IPU/DPU, VPU, SmartEdge
- Edge Inference
- CPU, IPU/DPU, VPU, SmartEdge

Colo Edge

Hosting services

- Adjacent to or collocated with Telco Edge

On-Premise Edge

- Hosting services

- Shift to Software Defined, Programmable Networks

- SmartEdge
- CPUs/IPUs/DPUs for routers
- CPU, IPU/DPU NIC
- CPU, IPU/DPU, NIC, FlexRAN
- CPU, IPU/DPU, NIC, SmartEdge

- Edge Computing
- CPU, IPU/DPU, VPU, SmartEdge

- Edge Inference
- Edge computing

- Shift to Software Defined, Programmable Networks

- CPUs/IPUs/DPUs for routers
- CPU, IPU/DPU NIC
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- Edge Computing
- CPU, IPU/DPU, VPU, SmartEdge

- Edge Inference
- Edge computing
This Event: BYO Puzzle Pieces

New space – lots to explore

We’re here to:
- Each show our pieces of the puzzle
- Hear about other’s pieces
- Identify synergies, gaps, overlaps

Two half-day sessions
- Co-organizers will present at end of today: where we think this is going
- Co-organizers will lead working groups tomorrow: where should we go together?
Infrastructure Programmer Development Kit (IPDK)

IPDK is a community-driven target agnostic framework for infrastructure programming that runs on a CPU, IPU, DPU, or switch.
## Day 1 – March 15, 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>8:00am-8:15am</td>
<td>Intro</td>
<td>F5, Intel, RedHat</td>
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<tr>
<td>8:15am-9:00am</td>
<td>Day 1 Keynote</td>
<td>Meta</td>
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<tr>
<td>9:00am-9:30am</td>
<td>Session 1</td>
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<td>9:30am-10:00am</td>
<td>Session 2</td>
<td>Intel</td>
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<td>10:00am-10:30am</td>
<td>Session 3</td>
<td>Lightbits</td>
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<td>10:30am-10:45am</td>
<td>Break</td>
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<tr>
<td>10:45am-11:15am</td>
<td>Session 4</td>
<td>Nutanix</td>
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<td>11:15am-11:45am</td>
<td>Session 5</td>
<td>Cisco</td>
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<td>11:45am-12:15pm</td>
<td>Session 6</td>
<td>F5</td>
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<td>12:15pm-12:30pm</td>
<td>Break</td>
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<td>12:30pm-1:00pm</td>
<td>Session 7</td>
<td>VMware</td>
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<td>1:00pm-1:30pm</td>
<td>Next Steps in Community Building/Evolution</td>
<td>Community session lead by Kyle Mestery (Intel), Yan Fisher (Red Hat), Paul Pindell (F5)</td>
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