

A vertical red banner on the left side of the slide contains various white icons representing cloud computing and API concepts. These include a cloud with a keyhole, a database cylinder, a server rack, a cloud with an upward arrow, a box with 'X' and 'O' symbols, a box with a plus sign, and a browser window. The main title is positioned to the right of this banner.

OPI API Foundations

February 2024

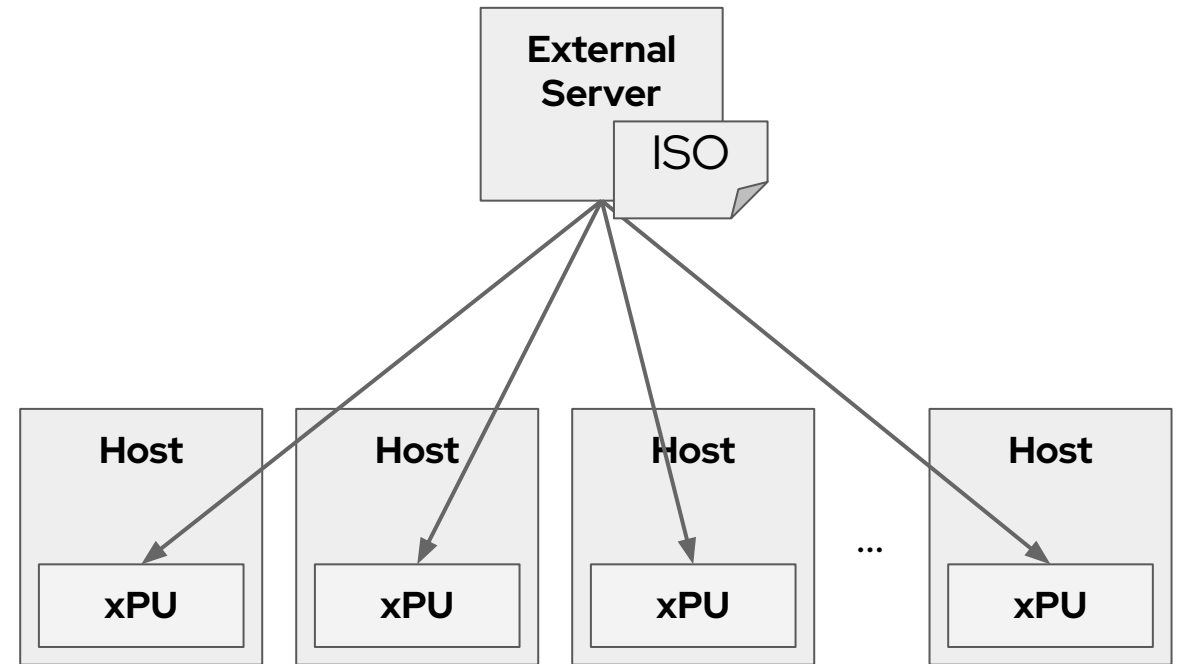
Context

- OPI-API Contributions have thus far been focused on high-level use cases
- Our take-away from working with multiple vendors is:
 - The use-cases try to be self-contained
 - Yet too many details are left unresolved
 - Cannot reach any consensus using this approach
- Instead we need to focus on these foundational issues
 - Provisioning
 - Basic networking
 - Running workloads
- Hard to work on higher level APIs until these foundations are agreed

Provisioning

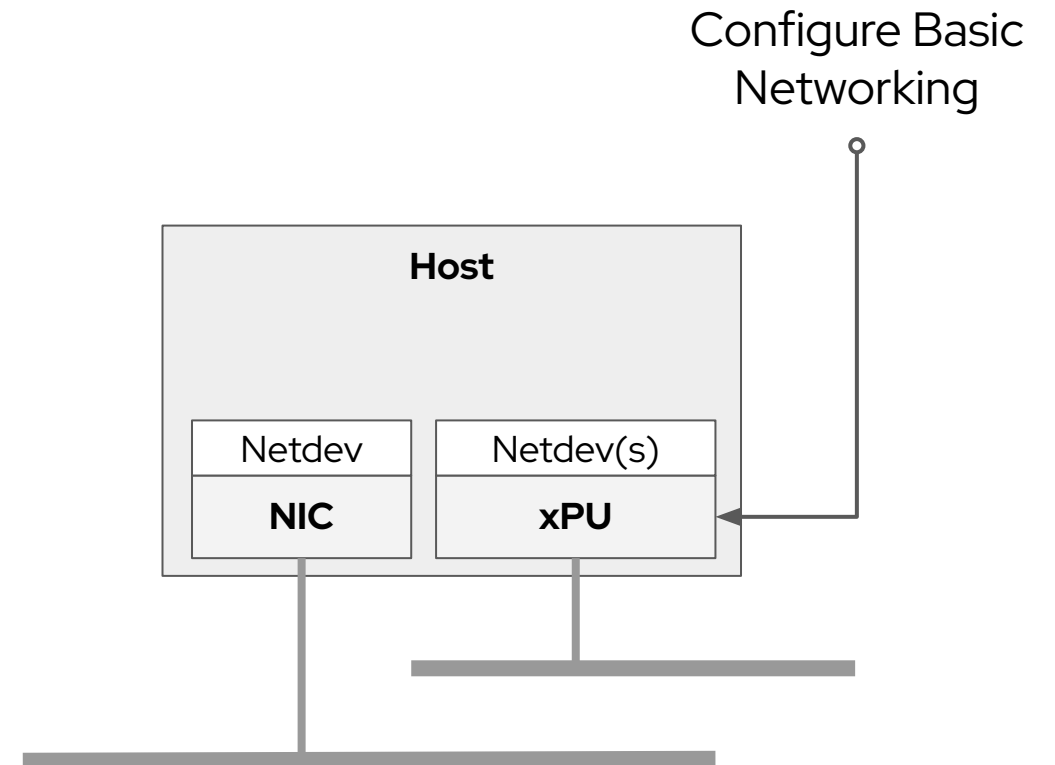
- We can't have a lab person go in and type things into consoles
- We need to use generic technologies
- We don't care about secure stuff just yet
- **We have an iso, and it needs to be able to boot it**
- It needs to be possible without an OS on the host

This intersects with the OPI Provisioning & Life Cycle workgroup



Use it as a basic networking device

- Assume the DPU isn't the only NIC in the host
 - since this is simpler for the DPU to handle
- Not using the DPU to its full potential yet
 - It's hard enough as it is without also trying to enable acceleration features
- Basic networking == basic underlay configuration



Allow to run an opaque workload

- The CPU on the DPU is what makes the DPU something more than a NIC
- We need to be able to run something on the CPU (don't know or care what it is)
- It may be slow, but that's fine for now (acceleration comes later)
- Focus on orchestration, networking

A vertical red bar on the left side of the slide contains a complex, stylized graphic. It features various icons: a cloud with a keyhole, a database cylinder, a server rack, a person silhouette, and several arrows pointing in different directions. There are also 'X' and 'O' symbols scattered throughout the design.

Thank you

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