CONTRIBUTORS TO THE OFMF
OPENFABRICS MANAGEMENT FRAMEWORK FOR COMPOSABLE DISTRIBUTED SYSTEMS

- Composable Disaggregated Infrastructure (CDI) in an HPC Architecture
- Redfish Representation of a Composable Disaggregated Infrastructure
- OFMF Architecture
- Examples of CDI HPC Use-Cases
COMPOSABLE DISAGGREGATED HPC SYSTEM CONTROLLED BY THE OFMF
REDFISH MAPPING OF A SIMPLE HPC SYSTEM

Simple Gen-Z Linux System Redfish Tree: Physical Objects, Endpoints, and Port linkages
HARDWARE FABRIC AGENTS INTERACTING WITH THE OFMF

- Application Domain
  - App driven system reconfig
  - Fabric Resources Monitoring
  - Composition Policies
  - Resource Control (e.g., Compute, F/MM, Storage, Fabric)
  - Events & Logs
- Management Layer
  - RESTful API (RF/IF)
  - OMF Services
    - Resource Inventory
    - RF tree management
    - Resource Configuration
    - Fabric Configuration
    - Authentication
    - Access Control
    - Events & Logs
  - Data Store
- Hardware Layer
  - CXL Manager
  - Zephyr Fabric Manager
  - Slingshot FM
  - OmniPath FM
  - InfiniBand SM

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COMPOSABLE INFRASTRUCTURE INTERACTING WITH THE OFMF
CONTAINER ENGINE INTERACTING WITH THE OFMF
COMPOSABLE FILESYSTEM ON A COMPOSABLE DISAGGREGATED INFRASTRUCTURE

Current

- RAM disk
- MGMT
- META
- OSS

Optional Direct Attached Storage

On-Demand

- RAM disk
- OSS

Composable

ML Located Dynamic Added Memory

- CPU 1
- CPU 2
- RAM disk
- MGMT
- META
- OSS

Composable On-Demand

- CPU 1
- CPU 2
- RAM disk
- MGMT
- META
- OSS

ML Located Dynamic Added Memory

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First bullet
  • Second bullet
  • Third bullet
THANK YOU
John Smith, President and CEO
COMPANY XYZ