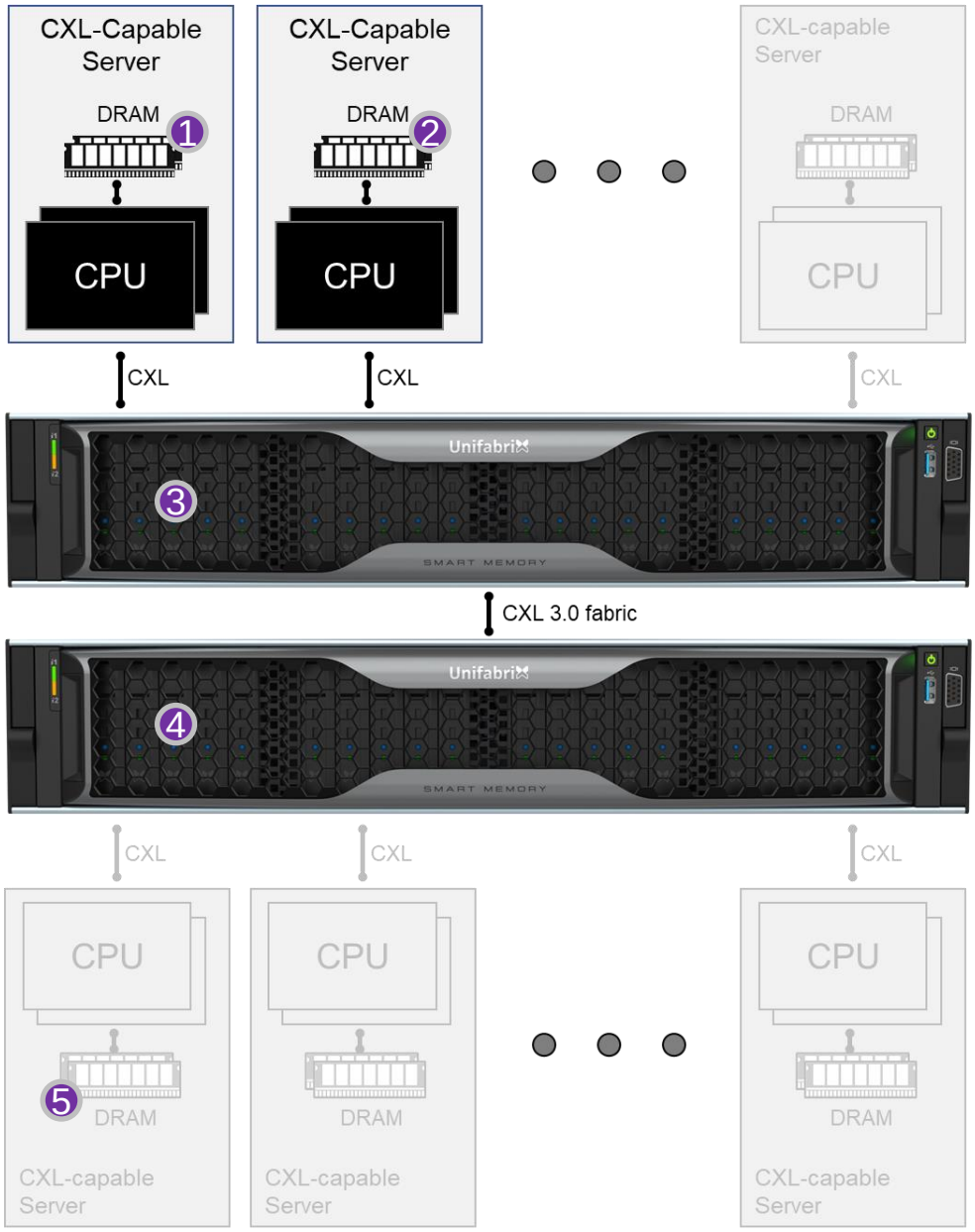
UnifabriX

SC22 Demo Setup

Demo Diagram



Demo Setup

- Memory pooling and sharing
  - Demonstrating memory pooling across multiple servers
  - Media-aware and workload-aware on-demand memory allocation
- The servers are connected via a CXL interface over a cable to UnifabriX Smart Memory Node
- Each server can access:
  1. Its own direct-attached memory
  2. Attached Smart Memory Node memory
  3. Local neighboring server memory
  4. Remote Smart Memory Node, over CXL 3.0 fabric
  5. Remote server across the CXL 3.0 fabric

Demonstrating

- Accelerating performance of industry leading HPC benchmark by:
  - Improving CPU utilization, by unleashing CPU cores that are stranded due to lack of memory
  - Increasing system-wide memory capacity and bandwidth

Unifabrix is showing a first real-life CXL-enabled performance acceleration of an HPC benchmark First to show CXL 3.0 Fabric

© UnifabriX 2022