**Tech Preview** 

# Elastic Memory

Memory capacity **automatically provisioned** from **CXL pools** based on **application demand** 

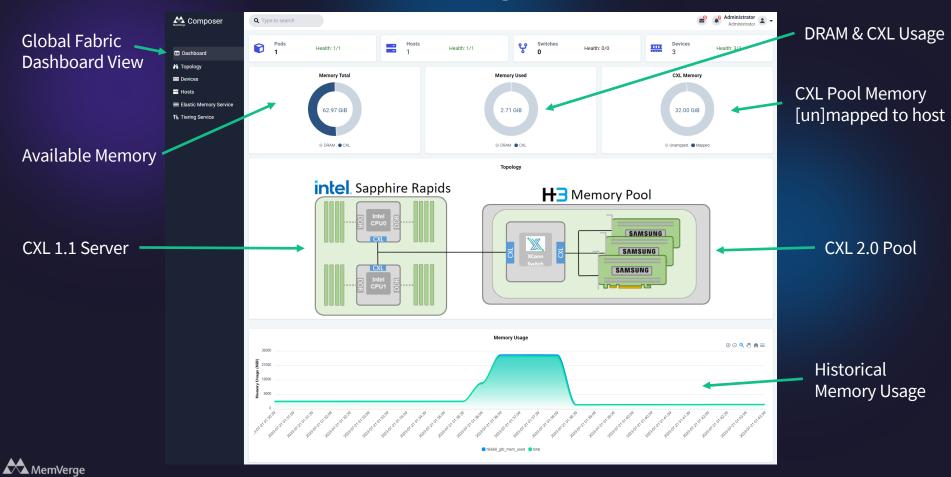
#### What is Elastic Memory

- The MemVerge Elastic Memory Service provisions and releases memory from a CXL memory pool ondemand to the hosts
- Prevents a host from swapping or applications being terminated by the Out-Of-Memory (OOM) Killer
- Solves the stranded memory problem

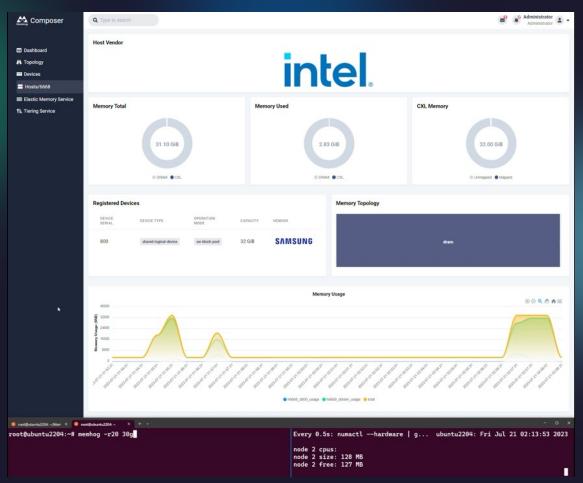


H3 Platforms CXL Memory Pool Demo A Single Intel Server with Samsung MX CXL devices

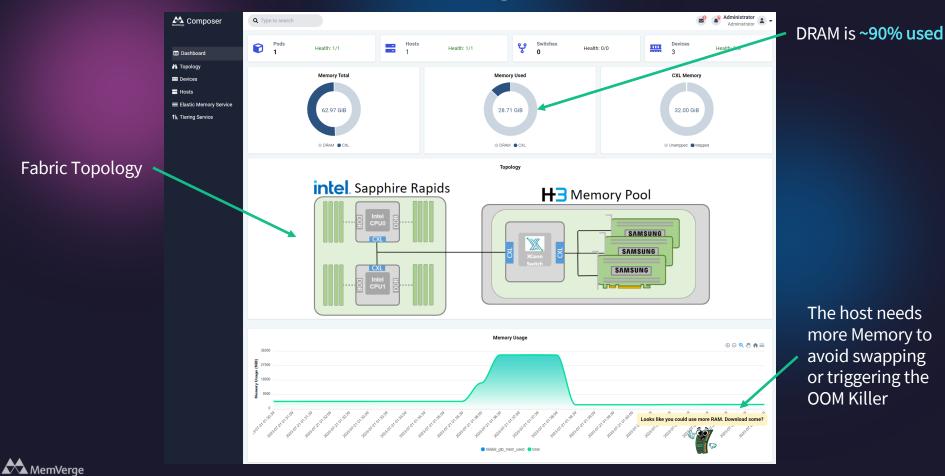


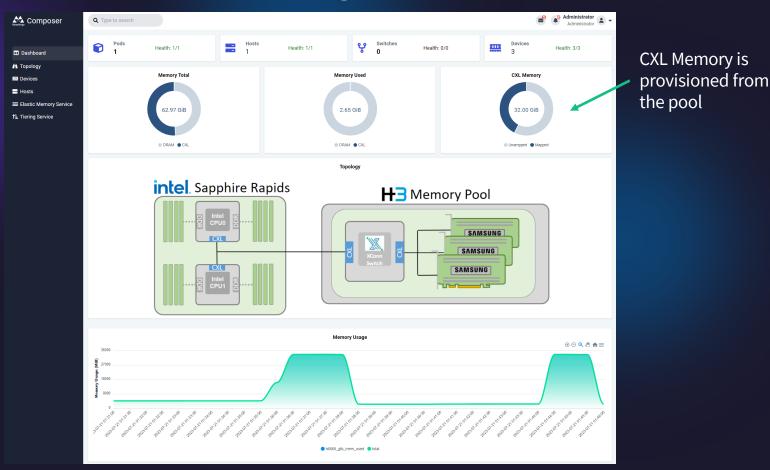


# **Elastic Memory using an XConn Switch with Intel**

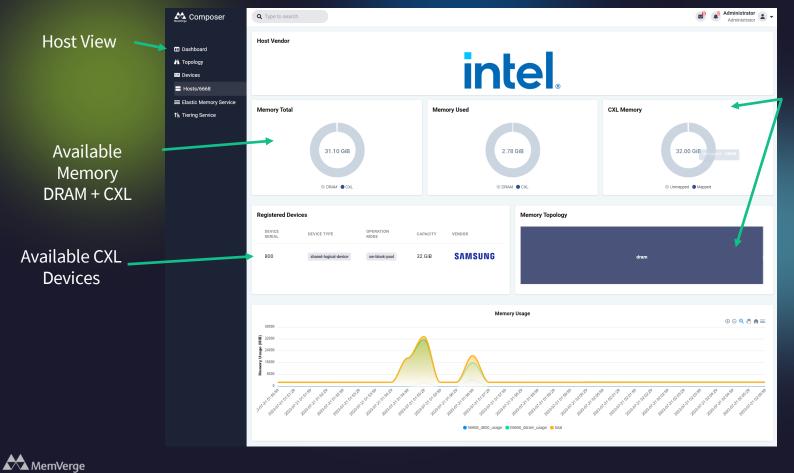




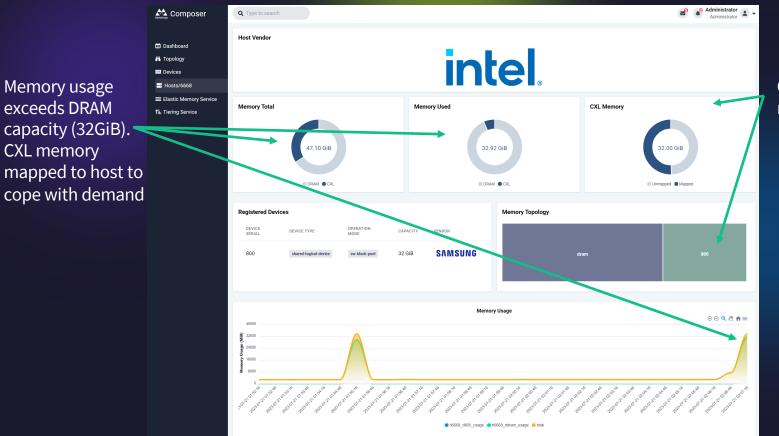






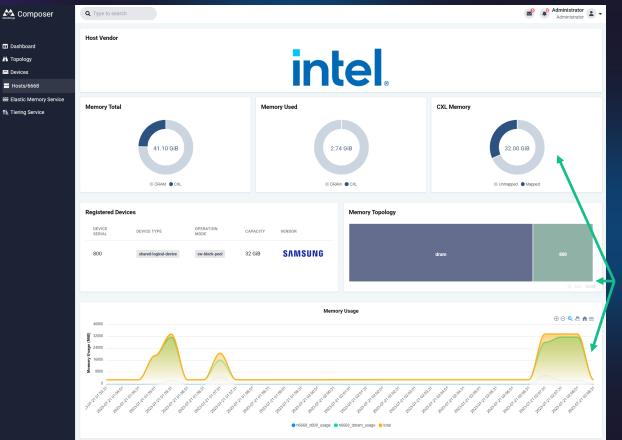


CXL Pool Memory mapped to host



MemVerge

CXL Pool Memory mapped to host

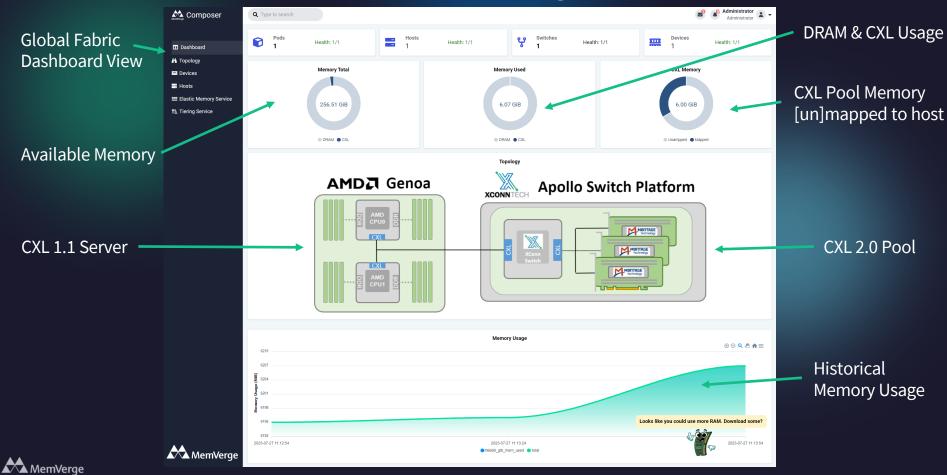


CXL Memory is released back to the pool when demand subsides

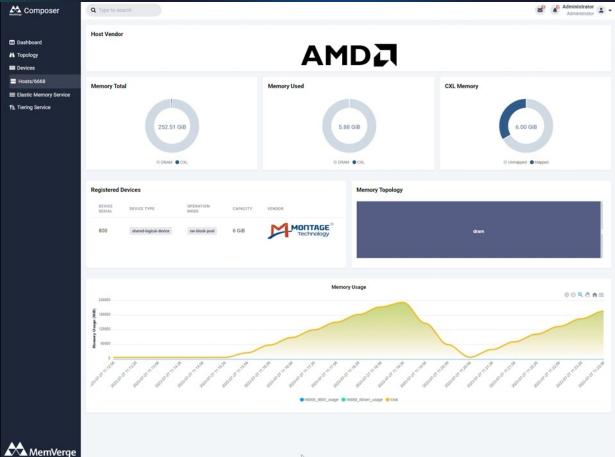


# XConn CXL Memory Pooling Demo A Single AMD Genoa Server with Montage CXL Devices



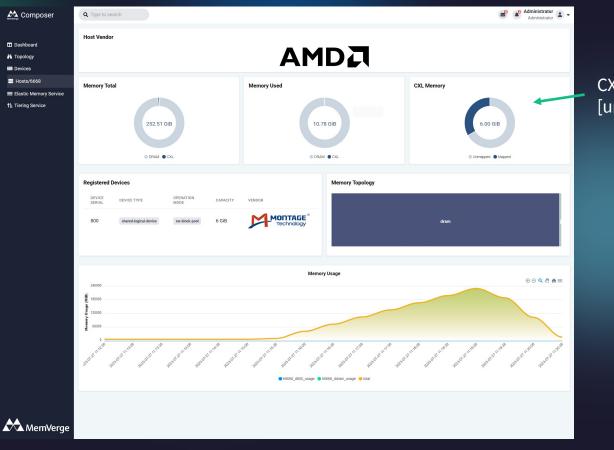


#### Elastic Memory using an XConn Switch with AMD



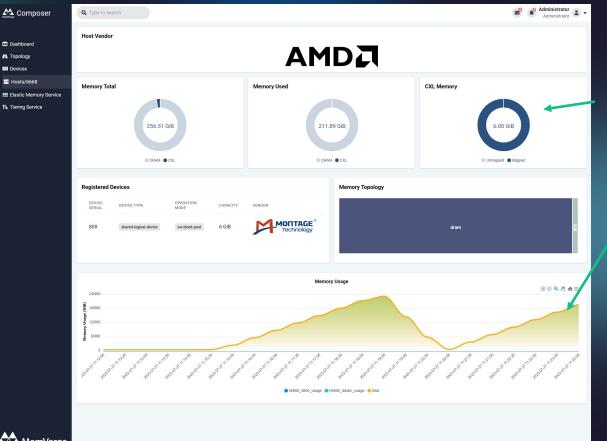


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MemVerge

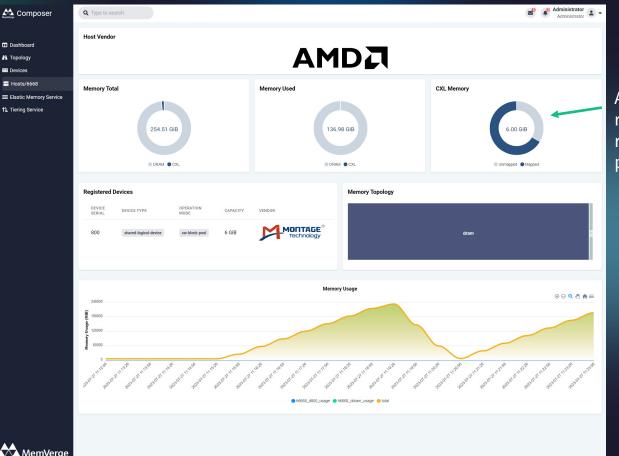
CXL Pool Memory [un]mapped to host



More CXL Pool Memory is mapped to the host because Memory demand grows



MemVerge



As memory demand reduces, memory is released back to the pool



MemVerge



