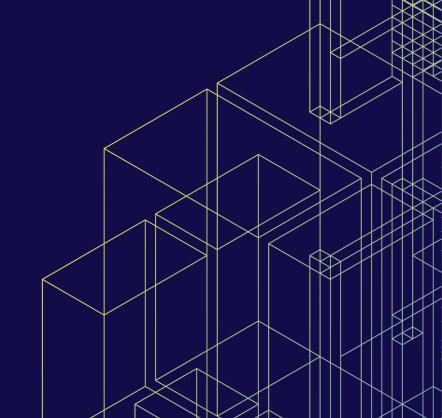


Storage Developer Conference September 22-23, 2020

Storage Networking

Craig W. Carlson Marvell





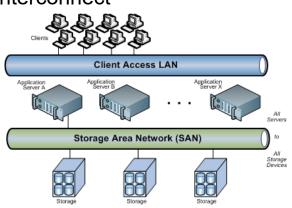
Introduction

- About myself
 - Senior Technologist at Marvell
 - Member of SNIA Technical Council
 - Vice Chair of ANSI INCITS T11 The Standards group that defines Fibre Channel
 - Chair of FC-NVMe The Standards group, under T11, that defines Fibre Channel over NVMe-of
 - NVMe Board Member



Storage Networking Track

- Concept of a Storage Network has been around for a while
 - First deployed as a Fibre Channel SAN
 - Other technologies available today
 - Most predominate are Storage Networks based on NVMe-oF
- What is a Storage Network?
 - Host and Storage connected by a Network interconnect
 - Fibre Channel
 - Ethernet
 - Infiniband
 - Storage Network provides
 - Scalability
 - Redundancy (High Availability)
 - Centralized Management





Talks

- A QUIC Introduction by Lars Eggert of NetApp
 - New Internet Protocol replacing TCP/IP for many applications
- Use cases for NVMe-oF for Deep Learning Workloads and HCI Pooling by Nishant Lodha of Marvell
 - Interesting use cases for NVMe over Fabrics
 - Deep Learning
 - High performance storage for large datasets
 - Scaling Hyperconverged Infrastructure
 - Scale storage without scaling compute resourses

SD@

Talks

- Smart Fabrics: Building Self-Healing Fibre Channel Networks by Brandon Hoff of Broadcom and Rupin Mohan of HPE
 - Fabric Notifations and Congestion Management
- Tiered Storage Deployments with 24G SAS by Jeremiah Tussey of STA and Microchip
 - Overview of SAS/SCSI protocols and applications
- Understanding Compute Express Link: A Cache-coherent Interconnect by Debendra Das-Sharma of Intel Corporation
 - Overview of CXL What is it?
 - Low latency cache managed protocol layered on PCIe

SD@

Talks

- CXL 1.1 Protocol Extensions: Review of the cache and memory protocols in CXL by Robert Blankenship of Intel
 - Deeper Dive into CXL Memory and Cache protocols

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- Participate in our online chat for this track
- Check out the Birds of a Feather (BoF) sessions
- Please be sure you rate each session you watch
 you'll see a box under the video
- For additional details see the Introduction to Virtual SDC video (https://www.snia.org/SDCintro)
- Enjoy the SDC 2020 virtual event!