



BY Developers FOR Developers

Storage Developer Conference
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NVMe-oF

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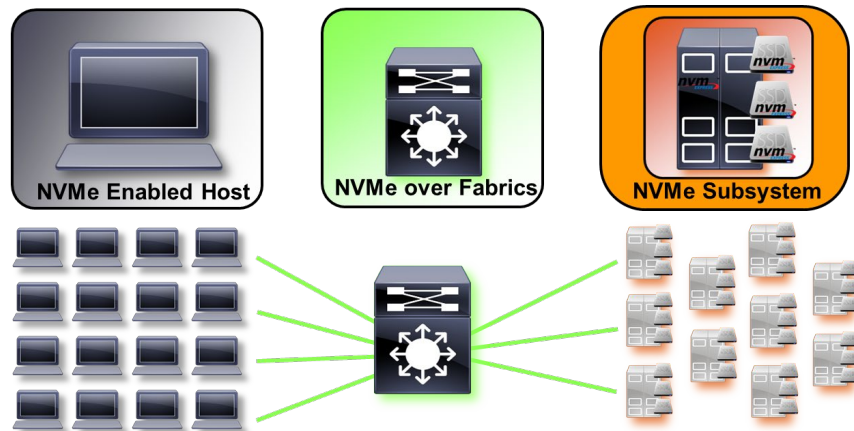


Introduction

- 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

NVMe-oF Track

- Topics about NVMe over Fabrics
- NVMe over Fabrics is a Standard that allows NVMe to run on RDMA, Fibre Channel, and TCP networks



Talks

- *NVMe over Fabrics in the Enterprise* by Rupin Mohan of HPE
 - Datacenter trends
 - Enterprise Use Cases
 - Centralized discovery for Ethernet Fabrics
- *NVMe-oF on RDMA performance challenges and solutions in commodity servers* by Yamin Friedman and Rob Davis of Nvidia
 - Tuning NVMe-oF RDMA performance
 - Optimize interrupt handling

Talks

- *Tuning and Optimizing Ethernet-based NVMe over Fabric Transport Protocols* by Dave Minturn and Anil Vasudevan of Intel
 - Target side efficiency measurements
 - CPU mapping
 - Interrupt moderation
- *Optimizing User Space NVMe-oF TCP Transport Solution with both Software and Hardware Methodologies* by Ziyue Yang and Yadong Li of Intel Corporation
 - SPDK user space NVMe/TCP
 - TCP stack optimizations
 - Acceleration using Application Device Queues (ADQ)

Talks

- *Next-Gen NVMe-oF Reference System: From Media to Network* by Duckho Bae and Jungso Kim of Samsung Electronics
 - Open Source reference model for NVMe-oF
- *Adaptive Distributed NVMe over Fabrics Namespaces* by Scott Peterson of Intel
 - Distributed NVMe-oF storage with automatic redirects for storage reconfiguration
- *High-performance RoCE/TCP solutions for end-to-end NVMe-oF communication* by Jean-Francois Marie of Kalray
 - Good background/overview of types of NVMe-oF Fabrics



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- Check out the Birds of a Feather (BoF) sessions
 - NVMe and NVMe-oF Configuration and Manageability with Swordfish and Redfish
- 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>)
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