



Flash Memory Summit

Myth Busting NVMe-oF

Walter Hinton - Pavilion



The Hype Cycle



As of July 2019

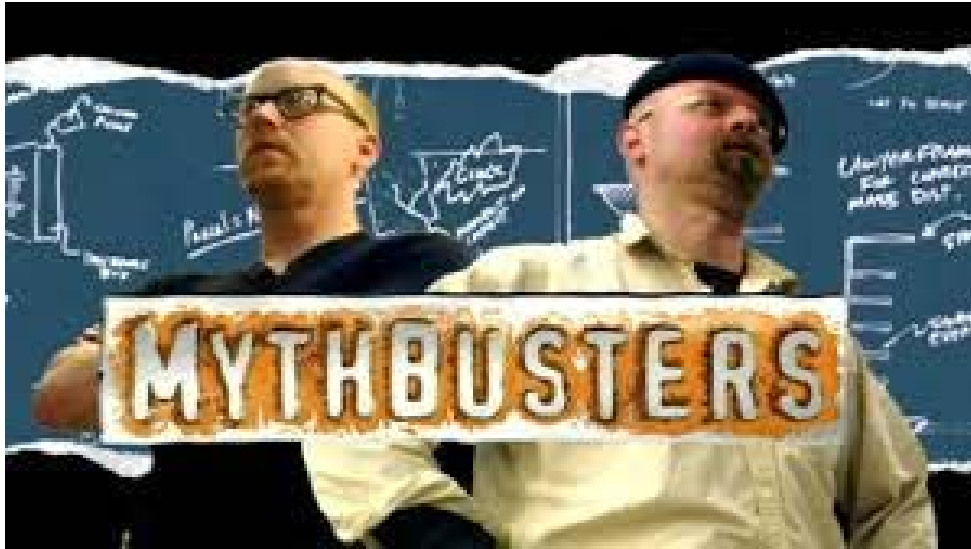
Plateau will be reached:

- less than 2 years
- 2 to 5 years
- 5 to 10 years
- ▲ more than 10 years
- ⊗ obsolete before plateau

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NVMe-oF Myth Busting!



NVMe-oF networks are esoteric

The only suppliers are startups

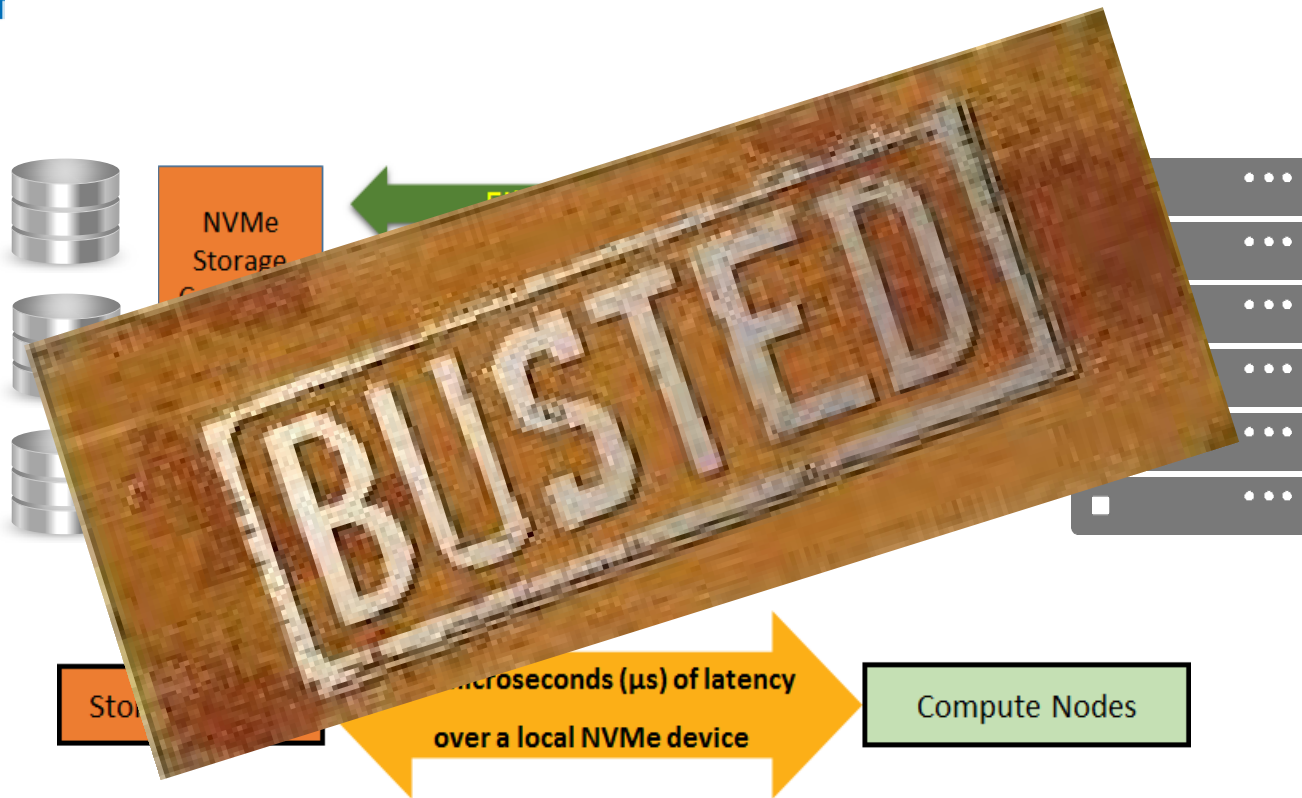
IOPS too slow, latencies too high

It's not a DAS replacement

It's unreliable, no HA



NVMe-OF Networks are Esoteric





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The only suppliers are startups





Myth – It's too slow, latencies too high

Over **16 Million IOPS**, **less than 1 microsecond latency**, 0 packet drops, Cisco Nexus 9000 with in-house "cloud scale" ASIC and PoE/RoCEv2 storage. The & VP, Pavilion Data

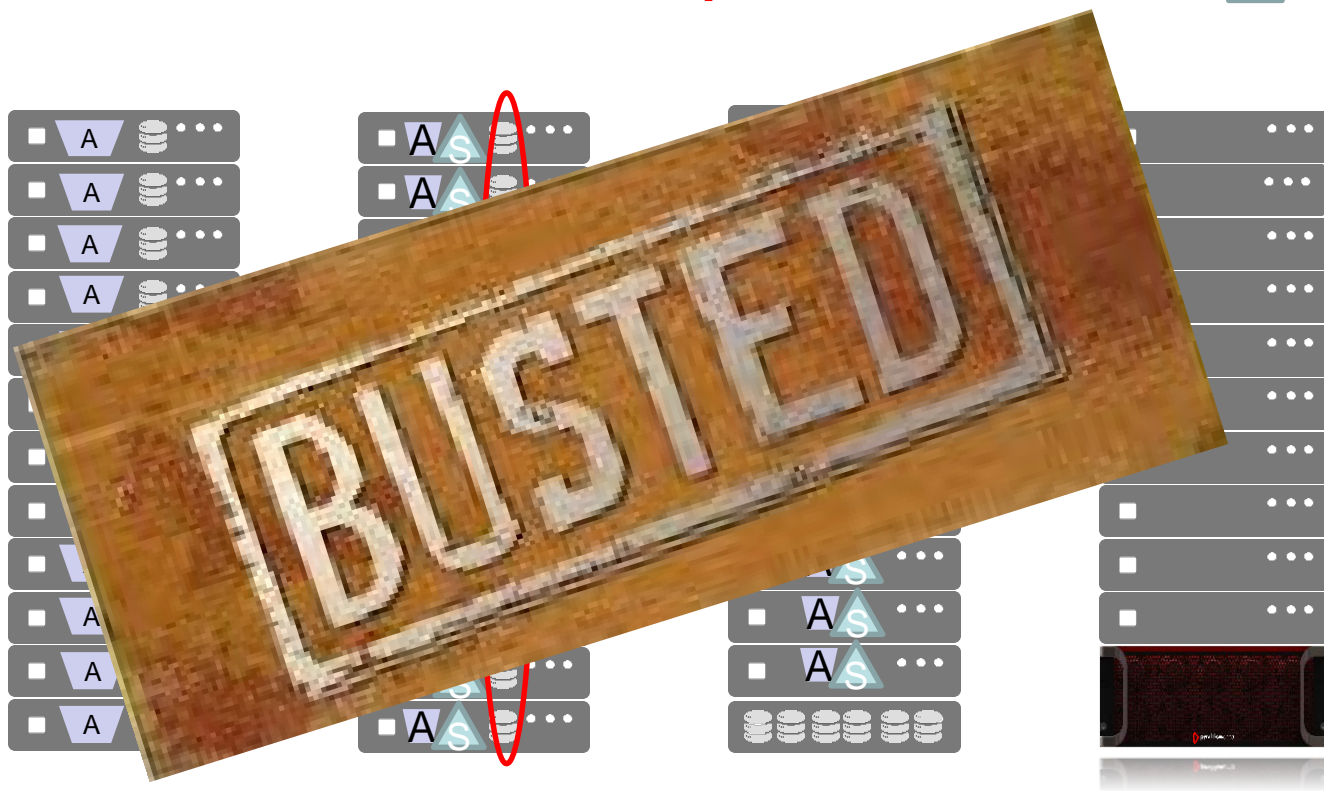
Kamal Bakshi – Data





It's not a DAS replacement

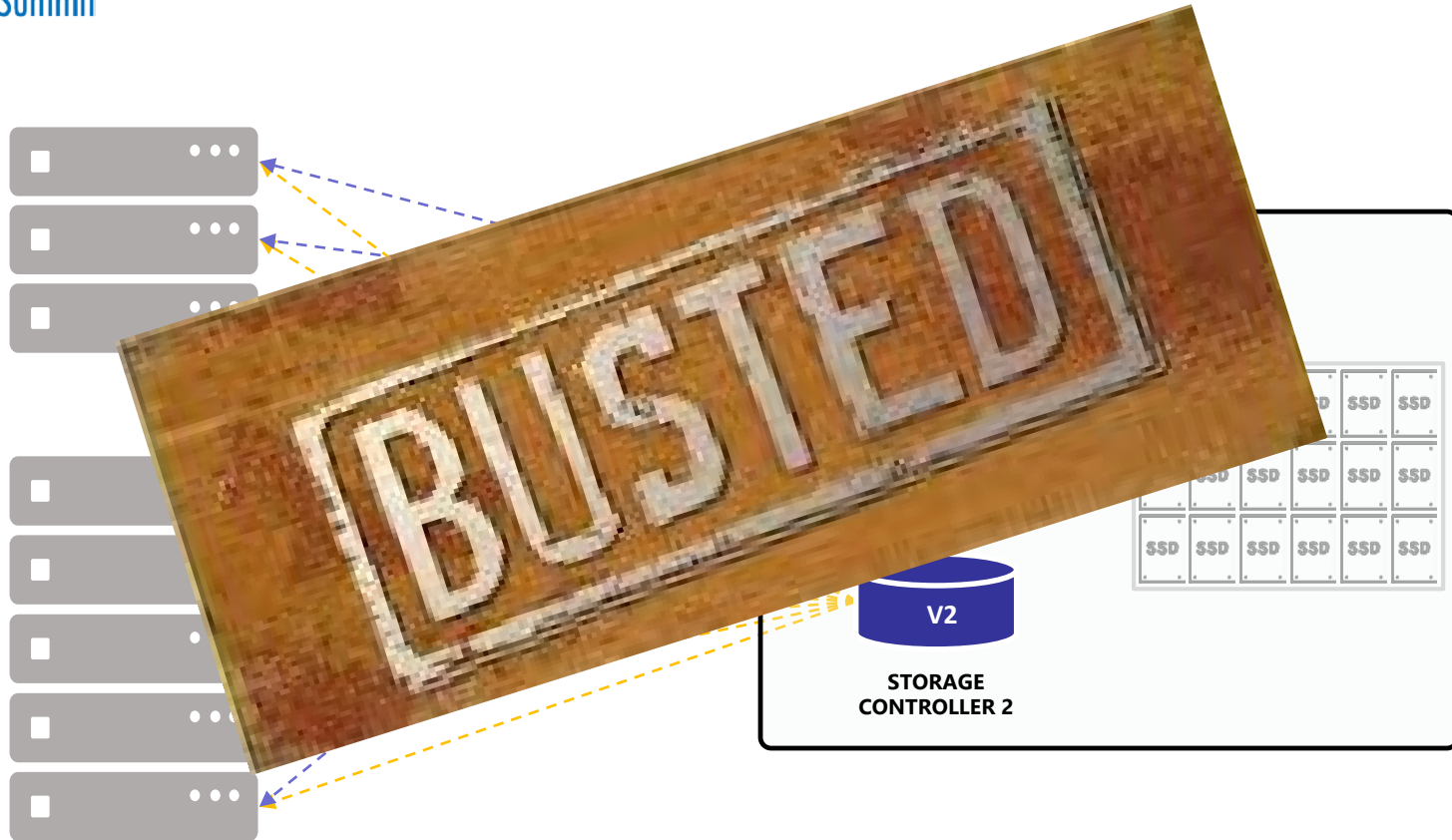
A = Application
S = Storage Controller





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It's unreliable – No HA





BUSTED

NVMe-oF networks are **NOT** esoteric

Suppliers are startups **AND** incumbents

IOPS are **HIGH**, latencies are **LOW**

It **IS** a DAS replacement with many options

It's **VERY** reliable, HA is part of distro

