Achieving Lowest-Latency Storage with NVMe™
Who Is This Guy Who’s Talking?

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It’s all about speeding up applications…

Performance = $ightarrow$

Managability, Efficiency and data protection = $ightarrow$

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So Along Comes NVMe …

4K Read IOPS
- NVMe SSD
- SAS SSD
- SATA SSD
- SAS HDD

<table>
<thead>
<tr>
<th>Bandwidth in MB/s</th>
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<tbody>
<tr>
<td>NVMe (x4)</td>
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<tr>
<td>SATA</td>
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4x IOPs

Bandwidth

6x

1/2 latency

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An analogy is in order
Continuing the analogy…
This is a server using a SATA SSD…
This is a server using an NVMe SSD…
The solution is to share NVMe
But How?
Tempting to say “NVMe-over-fabrics”

Just a protocol…

That gives you “Remote DAS”
Better to turn a pool of NVMe drives into virtual NVMe drives
Virtual NVMe drives appear to the OS/Application as local drives
NVMesh virtual drives are better than local NVMe drives…
NVMesh virtual drives are better than local NVMe…

** No hamsters were harmed during the creation of this PowerPoint presentation
The solution should be Software
Some products are proprietary…
Traditional Arrays say they do/will use NVMe drives…

I'm hungry for IOPs too!

Me too!

Me too!

Me too!

Me too!
You want something that acts like SAN, on Ethernet

3 x the performance and $\frac{1}{2}$ the cost of Fibre Channel 32 infrastructure
Thank you!