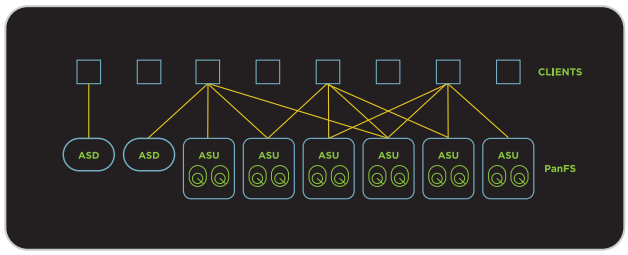
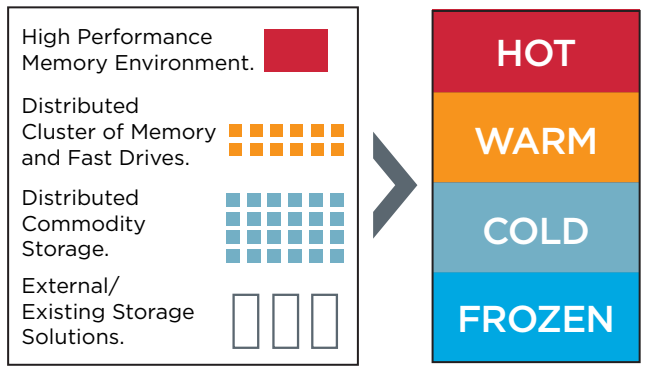
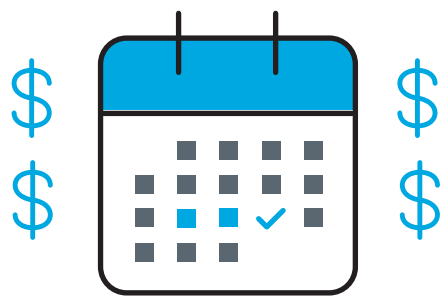
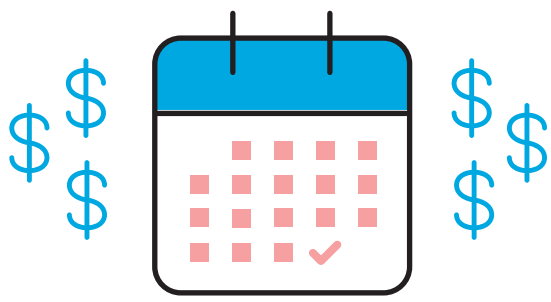
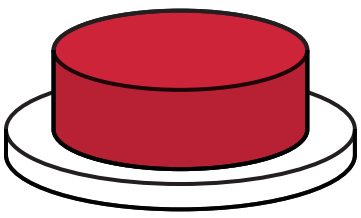
BEATING HPC STORAGE CHALLENGES

PANASAS

Architecture is key to overcoming the operational challenges of your HPC storage system

A recent study by Hyperion Research uncovered the most common operational challenges in storage infrastructure. Below we look at the top three and consider the role architecture plays in overcoming those challenges.

DIRECT PARALLEL ARCHITECTURE	VS	TIERED ARCHITECTURE
  With direct parallel storage you only need a team of one.	**Recruiting/training storage experts** 38% of companies said their number one operational challenge is recruiting and training storage experts.	  Tiered systems can require several people to support it.
 Direct parallel file storage can be installed and launched within a day or two for about the same cost as legacy architectures.	**Storage system installation time and cost** The second biggest challenge (22%) is the time and cost of installing a HPC storage system.	 Tiered architecture can seem inexpensive, until you start counting days.
 With the right architecture, HPC storage automates scaling and assigning data to the appropriate media for optimal performance. With it, you don't have to choose between the two extremes because the storage system tunes and optimizes when necessary.	**Tuning and Optimization Cost** 47% of companies surveyed tune and re-tune HPC storage monthly, while an equal number never do.	 If you live in a tiered world, get used to sending in the troops to tune and optimize your HPC storage.