Hewlett Packard Enterprise

Five things to consider when evaluating flash storage

The performance benefits of all-flash storage might be clear, but there are other critical criteria to consider when evaluating flash technology. Here are five insights that will help you ask the right questions during your evaluation.

1

Flash performance for all apps

Flash is fast. But most all-flash arrays are expensive and can't scale to the needs of all applications. Look for flash storage that adapts by scaling performance and capacity separately to match costs and service-level agreements (SLAs) for all applications.

2

Smart software that cuts costs

SSDs are costly, so flash storage must lower costs with software and hardware efficiencies. Double effective capacity by 2X or more with efficient RAID, deduplication, compression, thin provisioning, snapshots, and cloning. 3D TLC NAND flash can lower costs when used with smart software for high reliability and without a performance penalty.

3

Guaranteed vs. estimated resiliency

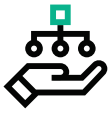
Don't waste time dissecting resiliency schemes. Instead, ask your vendor to guarantee the uptime number you will experience. This goes beyond a theoretical or claimed measured number. Look for guaranteed uptime of 99.9999% or higher.

4

Data protection included—No charge

Backup and disaster recovery (DR) adds costs and complexity. Look for efficient snapshots and data replication that's included for free. To save on flash costs, you should be able to directly backup from flash to disk, without any additional tools or costs.

5



Management made easy

Forget fancy portals and GUIs. Flash storage should simply work out of the box. The management interface should predict and prevent problems, predict and plan future needs, and provide visibility from storage to your virtual machines. Predict, prevent, and plan so you can manage effortlessly.

a00025876ENW, November 2017