



Quick Reference Card

FlexPod Select on E-Series for Hadoop

Save 20% over three years compared with JBOD or commodity servers with internal drives

Key Benefits

Accelerate Time to Insight

Validated, preconfigured components in the FlexPod® solution get customers up and running quickly with a more responsive Hadoop infrastructure that enables faster time to insight.

Meet Business Requirements with an Enterprise-Class Solution

Leverage a validated, best-in-class Hadoop solution that is designed specifically for enterprises.

Slash Downtime Costs

Customers can expect less downtime with a FlexPod Select on NetApp® E-Series architecture versus commodity-based storage. In a three-year test, FlexPod saved over \$88,000 in unplanned outage expenses.¹

Reduce Power, Cooling, and Space Costs

FlexPod Select on E-Series requires 1 rack of equipment for every 2.5 racks of equipment for the JBOD architecture.

Cut Total Cost of Ownership (TCO)

Lower total expenses by 20% over three years—without sacrificing performance, scale, and reliability.¹

At first glance, an architecture based on just a bunch of disks (JBOD) or commodity servers with internal drives might seem like the most cost-effective option for customers when building a Hadoop environment. However, a complete financial analysis—including capital and operating costs and unplanned downtime expenses, plus the value of data that is derived from workloads—reveals a better option. In that analysis, FlexPod Select on E-Series for Hadoop architecture comes out the clear winner.

In a recent study, WWT compared the costs of purchasing and operating a small Hadoop cluster that was built on a JBOD architecture and a FlexPod Select on E-Series architecture. The results showed a 20% savings of over \$1.2 million after three years with the FlexPod architecture.² For a more detailed breakdown of expenses by year, see the WWT white paper [FlexPod Outperforms JBOD for Hadoop at Scale](#).

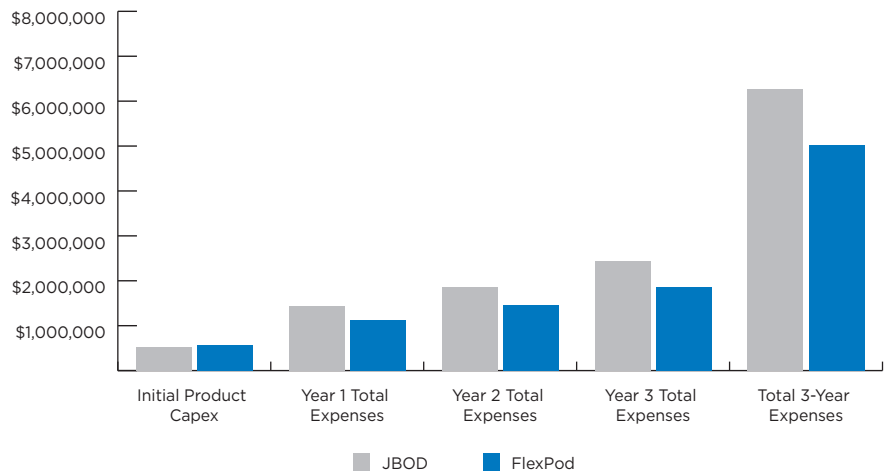


Figure 1) FlexPod Select on E-Series for Hadoop offers significantly lower TCO over three years than commodity-based servers with internal drives do.

¹ WWT white paper, "FlexPod Outperforms JBOD for Hadoop at Scale," <https://fieldportal.netapp.com/content/378097>.

² Assumptions include 33% environment growth rate; one administrator with a \$100/hour expense, administrator growth rate of 2.5% for the FlexPod environment and 10% for the JBOD environment; \$125,000 average workload data value; one annual workload failure for the FlexPod environment and three annual failures for the JBOD environment; \$3,500 monthly operating expense per rack (1 FlexPod rack and 2.5 JBOD racks); one unplanned outage per year for the FlexPod environment and three unplanned outages per year for the JBOD environment with a \$5,000/hour outage expense; and 2-hour mean time to recover (MTR) for the FlexPod environment and 4-hour MTR for the JBOD environment.