Hewlett Packard Enterprise

SUSE Linux Enterprise Server with HPE solutions for Big Data helps you...

Increase uptime
- Leverage the RAS features of SUSE Linux Enterprise Server to meet service-level agreements and keep your business running.

Accelerate innovation
- Get fast, timely access to abundant open source and partner innovations.
- Reduce time-to-value through SUSE-certified quality and ease of integration.

Improve operational efficiency
- Save time and money by simplifying and automating IT management and optimizing resource utilization.

Perform analytics at enterprise scale

HPE Solutions for Apache Hadoop running on SUSE Linux Enterprise Server

Improve performance while reducing the complexity and costs of consolidating and understanding Big Data with scale-out HPE platforms for Hadoop leveraging SUSE Linux Enterprise Server

Simplify and accelerate Big Data insights

Enterprises today collect and generate more data than ever before. Leveraging the Apache Hadoop open-source platform gives you fast, reliable analysis of both structured data and complex data at enterprise scale. In fact, deploying Hadoop alongside existing IT systems gives you the capability to consolidate, combine, and understand old and new data sets in powerful new ways for real competitive advantage.

But Apache Hadoop can be complex to deploy, configure, manage, and monitor. Deploying Apache Hadoop on HPE hardware with SUSE Linux® Enterprise Server allows you to derive new business insights from Big Data more simply and cost effectively. Our innovative platforms give you best-in-class performance and availability, in a single proven configuration that includes integrated software, services, infrastructure, and management.

Deploying your solution with the 64-bit version of SUSE Linux Enterprise Server provides you with superior file system, performance, and scalability.

Take your pick

Hewlett Packard Enterprise and SUSE reference architectures (RAs) for Apache Hadoop offer you a range of choices for deploying or building a Hadoop data analytics ecosystem for the leading distributions of Hortonworks.

Hewlett Packard Enterprise gives you the hardware platform flexibility to choose between traditional and density-optimized symmetric clusters so you can build a data analytics ecosystem optimized for your data flow and business.
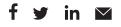
Choose the configuration that's right for you

Hewlett Packard Enterprise offers reference architectures for Apache Hadoop systems using the established Hadoop symmetric cluster architecture built on the HPE ProLiant server and Apollo 4000 family platforms. They provide you with the familiarity and proven record of the traditional Hadoop architecture built on the strength of HPE server and storage components and supported by HPE services.

* Based on 8 TB LFF drives

Our solution partner

SUSE.

f 𝕏 in ✉

Sign up for updates

★ Rate this document

Hewlett Packard Enterprise

Optimize for price/performance
When price/performance for high I/O bandwidth workloads—such as extract, transform, load (ETL), streaming, NoSQL, in-memory processing, machine learning, and search indexing—is of primary importance, compute power-optimized systems such as the HPE ProLiant DL380 Gen9 Server are ideal candidates. They have the high CPU clock rate and large memory configuration required for these workloads, with a data footprint that ranges from hundreds of gigabytes to multiple terabytes.

Get low cost per terabyte
When low cost per terabyte is the prime factor—e.g., for Web log analytics, sentiment and click stream analysis, and apps like Hive and MapReduce—storage-optimized systems from the HPE Apollo 4000 family are an ideal fit.

The HPE Apollo 4200 is the world's densest 2U server, and fits easily into a traditional rack-based data center. It provides a low initial investment, and allows you to scale in increments of one server at a time.

The HPE Apollo 4530 System is purpose-built for Hadoop-based analytics. This 4U, three-server system offers a one-to-one spindle ratio and the ability to easily store three replicas on a single chassis. Each server has up to 120 terabytes of capacity—providing economical building blocks for efficient implementations at scale with up to 30 servers and 3.6 petabytes of capacity in a 42U rack.*

Choose the right operating system
Hewlett Packard Enterprise recommends using a 64-bit operating system to avoid constraining the amount of memory that can be used on worker nodes.

Hewlett Packard Enterprise supports the 64-bit version of SUSE Linux Enterprise Server, which, in addition to superior file system, performance, and scalability, offers the comprehensive, certified support of the Hortonworks and HPE-supplied software used in Big Data clusters.

In addition, the SUSE YES Certified Program ensures your HPE system platform is compatible, certified, and supported with SUSE Linux Enterprise Server. By using SUSE Linux Enterprise Server in a Hortonworks Hadoop solution, you get a completely supported stack of hardware, operating system, and enterprise-grade data platform. Plus, SUSE's extensive independent service vendor (ISV) portfolio of software, including Hortonworks, means you have access to even more supported combinations of analytics applications, like HPE Vertica, HPE Autonomy, and more.

Get better performance and lower costs now

HPE Big Data solutions based on Hadoop and powered by SUSE Linux Enterprise Server provide best-in-class performance and availability, with integrated software, services, infrastructure, and management—all delivered as one proven configuration. Don't delay, find out more today.

Learn more at
hp.com/go/suse
hp.com/go/hortonworks
hp.com/go/Hadoop
suse.com/hp
hortonworks.com/partners/hp