Design your Hadoop environment

HPE Enterprise Design Service for Hadoop

This service will equip you to:

- Appraise the readiness of your current infrastructure

- Accommodate your existing IT systems in your Big Data plans

- Architect an actionable Hadoop design

- Accelerate your path to a production Hadoop environment

HPE consultants design Hadoop around your IT architecture

Business, government, and education are all eager to exploit and extract value from what's being collectively called Big Data—the flood of digital facts and figures, often completely unstructured, from sources as diverse as social media, security cameras, traffic sensors, and a million other origins. And Apache Hadoop is becoming the go-to application for Big Data processing, thanks to its scale-out architecture model, open-source affordability, and batch- oriented analysis capabilities.

Hadoop, however, is complex. It can be difficult to architect, deploy, and manage. The difficulties are especially acute for organizations that want to weave Hadoop into an existing infrastructure, or that require a unique installation not available with a turnkey system or reference architecture. Lacking Hadoop expertise in-house, they struggle to get their efforts off the ground, let alone make the big leap from Hadoop pilot to production.

Think about your own Hadoop challenges
Think about the challenge of placing Hadoop in your own environment. Can you do it today? Think about your answers to questions like these:

- How do I appropriately size my servers?

- What will the Hadoop network look like; how will I integrate it into my corporate network?

- What are my options for high availability?

- How will maintenance, upgrades, and expansion take place?

- How will data move in and out of my Hadoop environment?

- How do I secure that data?

- And how will I manage it all?

HPE Enterprise Design Service for Hadoop will give you the answers—in a detailed plan you can turn over to the implementation team, whether that team comprises your staff or third-party resources.

You need a detailed blueprint
Even more than most IT projects, the complexities of Hadoop call for a detailed design that begins with deployment goals, specifies all the vital nuts and bolts, and provides a plan for growth. You get all of that from HPE Enterprise Design for Hadoop. Delivered by HPE consultants experienced in Hadoop design and implementation projects, this service helps you:

- Reduce risk

- Accelerate your Hadoop project

You can engage us for the design alone, or add HPE Implementation Service for Hadoop as part of a larger package.

Your Big Data needs, our Hadoop expertise

HPE Enterprise Design for Hadoop begins with a design workshop—or more than one workshop, if necessary—to identify the key elements of a Hadoop design. We conduct follow-on interviews as required to specify the details. This service is delivered by experienced HPE consultants and incorporates best practices associated with Hadoop, as well as those associated with underlying systems.

"HPE's Big Data Consulting capabilities for Hadoop solutions, such as Cloudera Enterprise, enable organizations to quickly benefit from new and meaningful insights that previously were out of reach."

– Tim Stevens, Vice President Business and Corporate Development, Cloudera

The result is a document describing the specific configuration for Hadoop in your environment. You get a detailed design of your Hadoop implementation, including the specification of:

- **Naming**—We document network naming and integration into your corporate network.

- **Hardware, networking, and software**—We supply a recommended bill of materials for your Hadoop cluster, including the use of your existing hardware as applicable.

- **Data movement**—The design incorporates data movement and the need for ingress/egress systems.

- **Administration**—Our consultants identify management tools, and define the implementation or integration of authentication services.

- **Backup and disaster recovery**—We specify these systems as part of the design.

- **High availability (HA)**—If it's part of your requirements, the design identifies and documents HA based on your goals and the capabilities of Hadoop.

- **Procedures**—We provide details of operating procedures and standards, too.

You receive a detailed design specification that spans hardware, software, network, security, management, and operations. The specification includes an actionable bill of materials you can use as a foundation for the next step: implementation. And if you need implementation services, our HPE Implementation Service for Hadoop can build out your Hadoop environment once your design is in place.

Count on HPE for Big Data expertise

HPE Big Data Enterprise Design for Hadoop is just one of a broad portfolio of HPE consulting services created to help you define, architect, build, and safeguard an integrated IT strategy for Big Data. Our team of Big Data technology consultants can devise the most efficient and effective means to capture, consolidate, manage, and protect business-aligned information.

We have a wealth of experience in Big Data technologies, and we're armed with specialized methodologies and tools developed in-house and honed over many years. What's more, our architects and consultants are backed by the global resources of the world's largest technology company. You'll find our approach to be efficient, flexible, and collaborative. It's strengthened by knowledge-sharing and a set of highly effective processes. And you can expect Big Data solutions that are at once more effective and easier to implement.

Big Data is not about a single technology. It's a new approach to providing services and value to your business. Our mission is to help you understand Big Data and realize the maximum benefit from your investment in it.

Learn more at
**hpe.com/us/en/services/
consulting/big-data**

Sign up for updates

★ Rate this document

Hewlett Packard
Enterprise