

Cisco Services for Big Data Solutions



Benefits

- Improve total cost of ownership (TCO) with expert advice for planning and designing your big data solution.
- Mitigate the risk of your big data deployment with help from Cisco® experts.
- Increase the productivity of your big data cluster with orchestration tools and best-in-industry computing and networking architectural designs.

Data Is the Foundation of Digital Transformation

Digital transformation is leading the marketplace, and propelling this transformation is big data. Big data is becoming pervasive across all industries, as data-driven companies position themselves to be successful disruptors. To stay competitive, you need to unlock the hidden value within your data. To do this you need an effective data-management, data-preparation, and analytics solution that can quickly adapt to today's fast-paced environment.

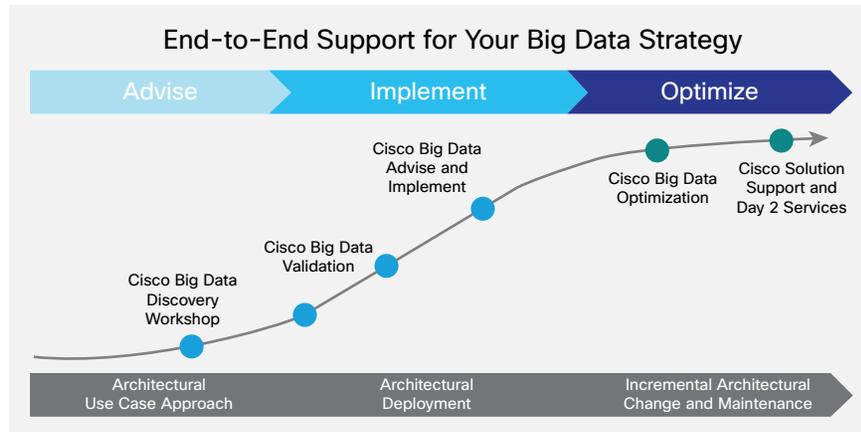
Cisco UCS® Integrated Infrastructure for Big Data and Analytics is based on the Cisco Unified Computing System™ (Cisco UCS), Cisco Unified Fabric, and Cisco Unified Management. This solution gives you flexibility and agility you can count on to deliver greater scalability, performance, and management automation while reducing your total cost of ownership (TCO). It transparently integrates into your current data center architecture with data center readiness capabilities, such as backup, remote management, high availability, compliance, and disaster tolerance. We partner with leading independent software vendors (ISVs) to provide best-in-class data-management, data-preparation, and analytics capabilities. When combined with the resources of Cisco's ISV partner ecosystem, this offering provides powerful solutions for your specific big data and analytics needs. It delivers the agility you need to process analytics at the data center core and edge and in the cloud.

Are you ready to unlock the hidden value within your data and outpace the competition? If limited skills or resources are preventing your organization from moving forward with a big data solution, include Cisco® Services as part of your strategy. Our professional and support services help you achieve the value of your investment more quickly, reduce risk in your production environment, and benefit the most from the Cisco UCS Integrated Infrastructure for Big Data and Analytics solution.

Unlock the Value of Big Data with Cisco Services

Seize the opportunities that digitization offers by quickly unlocking the value of your data with Cisco Services. We can work with you on your digital transformation to achieve your business goals by providing a holistic view of your complete big data ecosystem. When engaged early, our experts can help you better align your business and IT goals and gain cost efficiencies in planning and operational readiness. We can help you eliminate points of failure through careful design and the application of best practices. Our Cisco Big Data Services portfolio (Figure 1) provides support for every phase of your project.

Figure 1. Cisco Big Data Services



Put Cisco Expertise to Work to Accelerate Your Success

Cisco offers a full range of services to help you succeed:

- **Advise:** Cisco Advisory Services help you determine the right strategy with detailed analysis and assessments and planning and design activities. These services help guide you through the steps necessary to gauge the merits of the solution and prepare for a successful solution deployment.
- **Implement:** Cisco Services provide the expert assistance needed to implement the solution. Cisco Training and Implementation Services help you develop detailed test and implementation plans and install, configure, and integrate new solutions in your production environment.

- **Optimize:** In addition to helping you increase operation efficiency, reduce support costs, and improve network risk management, Cisco Optimization Services help you achieve efficiency and agility in your production environment. We provide the expert guidance needed to increase the resiliency, recoverability, and robustness of the entire data center and network.

Cisco and our industry-leading data center partners offer a selection of custom and fixed-price, fixed-scope services to help you quickly and accurately accelerate the deployment and optimize your Cisco big data solution. With our expertise and knowledge, you can gain the full potential of your solution and quickly reap the benefits of achieving your business goals.

Available custom services include:

- **Cisco Big Data Advise and Implement Services** are scoped to meet your specific business and technical objectives. These services help you to design your big data architecture, develop use cases, pilot-test the environment, and run data-load simulations. They also help you deploy embedded applications, integrate data sources, conduct validation and acceptance testing, develop a runbook, and hand over the solution to operations staff.
- **Cisco Big Data Optimization Service** is an annual subscription offer that provides ongoing support and analyses for your Cisco big data production environment. Our experts take a holistic view of your big data ecosystem to provide services for a fully optimized solution. Using industry-leading tools and best-practice methodologies, we guide you through the process of validating your end-to-end big data architecture for quick adoption of technology innovations to meet your future business needs. Through proactive recommendations, support escalation, and continuous knowledge transfer, we help you meet project timelines and maintain an optimized and secure big data solution with high availability. Activities include:
 - **Big data current-state assessment:** Our experts review and evaluate your current system and make recommendations. We assess your high-level Hadoop architecture with cluster topology, cluster utilization and patterns, use-case blueprint and service-level requirements, build and failed-node-replacement processes, big data ecosystem security model, operating system and network configuration, and setup and resource management.

We work with you to organize data in the Hadoop Distributed File System (HDFS) and MapR File System (MapR-FS), analyze your high-availability and replication strategies, develop a backup and disaster-recovery plan, and create a strategy for capacity sizing and growth. Future state recommendations are documented along with recommendations for a Hadoop product strategy.

- **Big data cluster health check:** Our experts review and assess your cluster deployment and configuration and Cisco UCS security deployment. We check for operating system, network, and application errors. We perform a data lifecycle assessment, benchmark the current cluster performance profile, and review data ingestion.
- **Big data workshop:** Our workshop focuses on a topical big data ecosystem agenda. We work with you to develop a prioritized use-case roadmap, discuss high-availability and disaster-recovery options, and recommend tuning parameters for your ecosystem.

Our fixed-price service for big data is the [Cisco Big Data Validation Service](#). This service provides accelerated deployment of a predefined Hadoop environment by implementing a single use case on a certified cluster based on Cisco Integrated Infrastructure for Big Data. This service helps you build and validate your big data solution to ensure smooth integration of Hadoop on Cisco UCS Integrated Infrastructure for Big Data and Analytics, creating a more scalable, efficient, and resilient data center architecture.

In addition to our custom and fixed-priced services, we offer [Solution Support for Critical Infrastructure](#), which supports Cisco's big data solutions. This service centralizes support across your big data ecosystem environment. Regardless of whether a problem occurs in a Cisco product or a solution partner's product, just call us. Our experts are the primary point of contact and own the case from first call to resolution. This service includes both Cisco product support and solution-level support, helping resolve complex issues in multivendor environments 41 percent more quickly than with product support alone.

With the expertise of Cisco Services for Big Data Solutions, you gain faster time-to-value, comprehensive adoption in your environment, an optimized big data solution, and solution wide support.

Cisco Services: Your Trusted Advisor for Your Digital Transformation

Cisco and our industry-leading partners deliver services that accelerate and optimize your business transformation. Cisco can help you efficiently integrate and manage your big data solutions and improve the performance and availability of your vital business applications. Cisco Services help you reduce costs, operate more efficiently, and accelerate time-to-value for your investment.

For More Information

To learn more about how Cisco Services can help you successfully and quickly deploy Cisco UCS Integrated Infrastructure for Big Data and Analytics, visit <http://www.cisco.com/go/dcservices> or contact your Cisco sales representative or Cisco authorized partner.