Deploying a high-quality data center solution that is cost-, energy- and space-efficient

IBM IT Facilities Assessment, Design and Construction Services – scalable modular data center

Highlights

- ***Enables fast deployment of a fully functional cost-, space- and energy-efficient data center in 8–12 weeks***
- ***Provides increased flexibility to install a data center in virtually any working environment***
- ***Scales to meet changing business needs***
- ***Delivers the power, cooling, security and monitoring needed for optimal server performance***
- ***Typically enables 15 percent lower costs than traditional data center design and build***
- ***Provides a high-quality, complete turnkey solution from planning to startup***

Implementing an efficient data center to support continuity and growth

To keep up with increasing business demands, many organizations are looking to add data center capacity. The complexity and costs of designing and constructing traditional raised-floor space, combined with a lack of available floor space, are leading some organizations to postpone expansions—or worse, install equipment in unconditioned, unsecured and unmonitored space. Operating servers in a non-data center environment, such as a server closet, telecommunications closet or office space, can pose environmental and efficiency challenges, including overheating, insufficient or unprotected power, lack of security and improper installation.

Organizations must ensure that their data center capacity can meet growing business and technology requirements, especially when moving to blade server technology or adding servers and storage to an existing IT location. For businesses that have limited capital, the ability to cost-effectively deploy data

center capacity in a reasonable amount of time without negatively affecting business operations is critical.

IBM IT Facilities Assessment, Design and Construction Services – scalable modular data center quickly deploys a cost-effective, high-quality 500–1,000 square foot (50–100 square meter) data center solution. It can be designed and installed in almost any working environment in less time than a traditional raised-floor data center. Your scalable modular data center can meet your growing IT infrastructure needs and address the needs of blade server technology potentially at a cost 15 percent lower than traditional data center design and builds. It features an energy-efficient design incorporating efficient UPS systems and efficient in-row, load-variable cooling.

Building a data center in less time than typical data center deployments require

Scalable modular data center helps you design and implement a custom data center in about two to three months—versus the typical six to twelve months it can take to design and build or renovate a traditional raised-floor data center. IBM helps you determine your data center requirements, works with you to plan the data center, designs a solution to meet your needs and provides installation and testing services. IBM is the single point of contact and manages the project from beginning to end, providing a robust turnkey solution. This helps you remain focused on your core business and reduces the need to reassign critical staff members to a project for which they may have limited experience.

Installing data centers in a variety of environments

The flexibility of scalable modular data center from IBM allows you to install a data center in virtually any environment—from a traditional data center to general office space. The solution's plug-in functionality and small footprint mean it can typically run coolly and quietly, regardless of where it's installed.

Using IBM services and the integration of an IBM preferred-vendor solution, you can take advantage of the necessary tools and resources to help ensure data center security and efficiency. You can install your servers and other components in one physical location under lock and key, helping to improve security. And with everything in a common environment, you can take a more systematic and methodical approach to monitoring and maintaining the power and cooling requirements of your equipment, helping to increase efficiency.

Adding components as your business needs dictate

Scalable modular data center allows you to more easily add components—including servers, frames and racks—to expand your data center as your business needs evolve. Because the solution is modular, the process to add capacity is significantly simpler than adding racks to traditional raised-floor space. Alternately, you can easily remove components if business needs change.

Providing the capabilities needed to help ensure efficient operations

Scalable modular data center can include conditioned and distributed power, equipment cooling, equipment rack systems, and security and monitoring capabilities for your IT equipment

needs to ensure efficient and reliable server operations in a security-rich environment. You can take a more systematic and methodical approach to monitoring and maintaining the power and cooling requirements of equipment, helping to increase efficiency.

Controlling data center costs

Because it uses modular components and does not require the design and construction of a raised floor, scalable modular data center can potentially cost up to 15 percent less than traditional data center design and builds. Monitoring the power, heat and capacity requirements of your data center in real time can also help you control costs and reduce the total cost of ownership as well as improve asset management. And because scalable modular data center is a bundled solution with all-inclusive pricing, it can also facilitate more consistent budget planning and controlled expenditures. Plus, a lesser administrative investment means you can reinvest in other areas of your business.

Leveraging the expertise of a global technology leader

Scalable modular data center leverages preferred vendor solutions and IBM's time-tested server technology, facilities infrastructure experience and deep industry knowledge to provide a high-quality, complete turnkey solution from planning to startup. IBM also offers a broad range of complementary services, including server consolidation and IT Infrastructure Library® (ITIL®) assessment, provided by professionals with more than 20 years of experience in the industry. IBM has acquired experience designing, building and running a significant number of its own data centers, as well as those of its strategic outsourcing clients.

Why IBM?

IBM is a leading global provider of data center design, construction, relocation and optimization services. IBM has built more than 30 million square feet of raised-floor data centers for clients worldwide. We currently manage more than 100 IBM data centers of six million square feet. Our structured methodology, intellectual capital and global reach position us to deliver superior, comprehensive data center solutions. Leveraging its well-established relationships with industry-leading vendors, including strategic relationships with major power and cooling equipment vendors, IBM can tailor a data center solution to your needs, whether you're looking for a two-, five- or ten-year strategy or beyond. And unlike most data center solution providers, IBM manufactures a full suite of storage and server products, giving us a strong understanding of the infrastructure support needs of your IT equipment. IBM professionals possess a clear understanding of existing data center technologies and trends, and can provide that insight as well as high-level support to help meet your solution needs now and in the future. Relying on IBM for your data center needs helps enable you to focus your valuable resources on your core business, rather than on your IT environment.

For more information

To learn more about IBM IT Facilities Assessment, Design and Construction Services – scalable modular data center, contact your IBM representative or visit:

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IBM Global Services
Route 100
Somers, NY 10589
U.S.A.

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