

Data Center Space Utilization

A Basic Guide

CHALLENGE

Many enterprises today encounter the challenges of limited data center space.

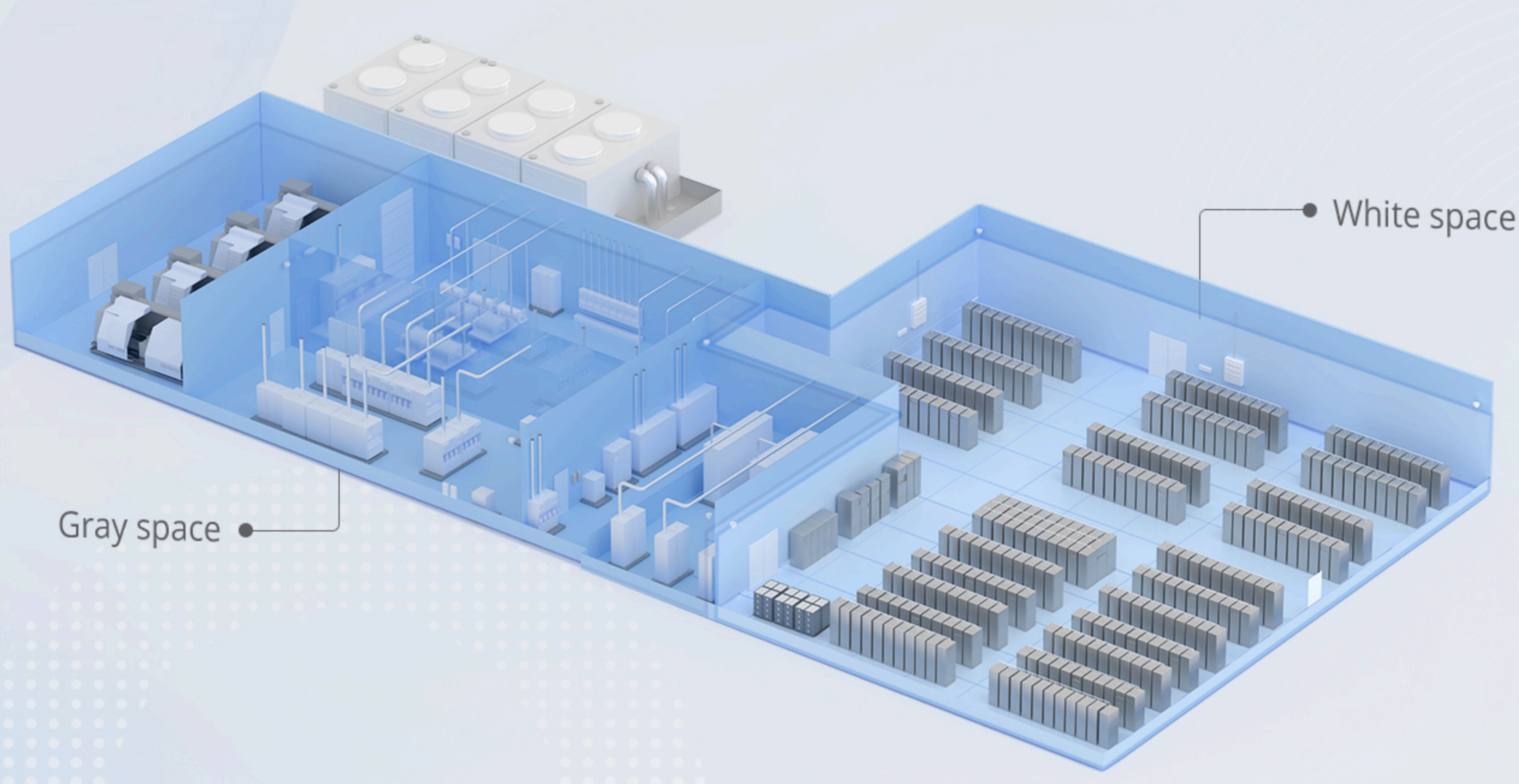
REASONS

- 1.The advancement of technology increases their demands for larger data center space.
- 2.According to the research from an energy consortium called The Green Grid, 43 percent of respondents said they had no strategies in place to boost energy efficiency.

Eight Ways to Utilize Data Center Space

Combine White Space and Gray Space

The combination of white space and gray space in data centers can save a large of space and optimize the data center utilization to the largest degree.



Refresh Technologies

New technologies like flywheels can increase the power of the machine, improve operational efficiency and minimize power consumption.



Use the Small-diameter Cable

The small-diameter cables allow rack space to be used to accommodate more equipment and reduce the demand for more cable management systems.



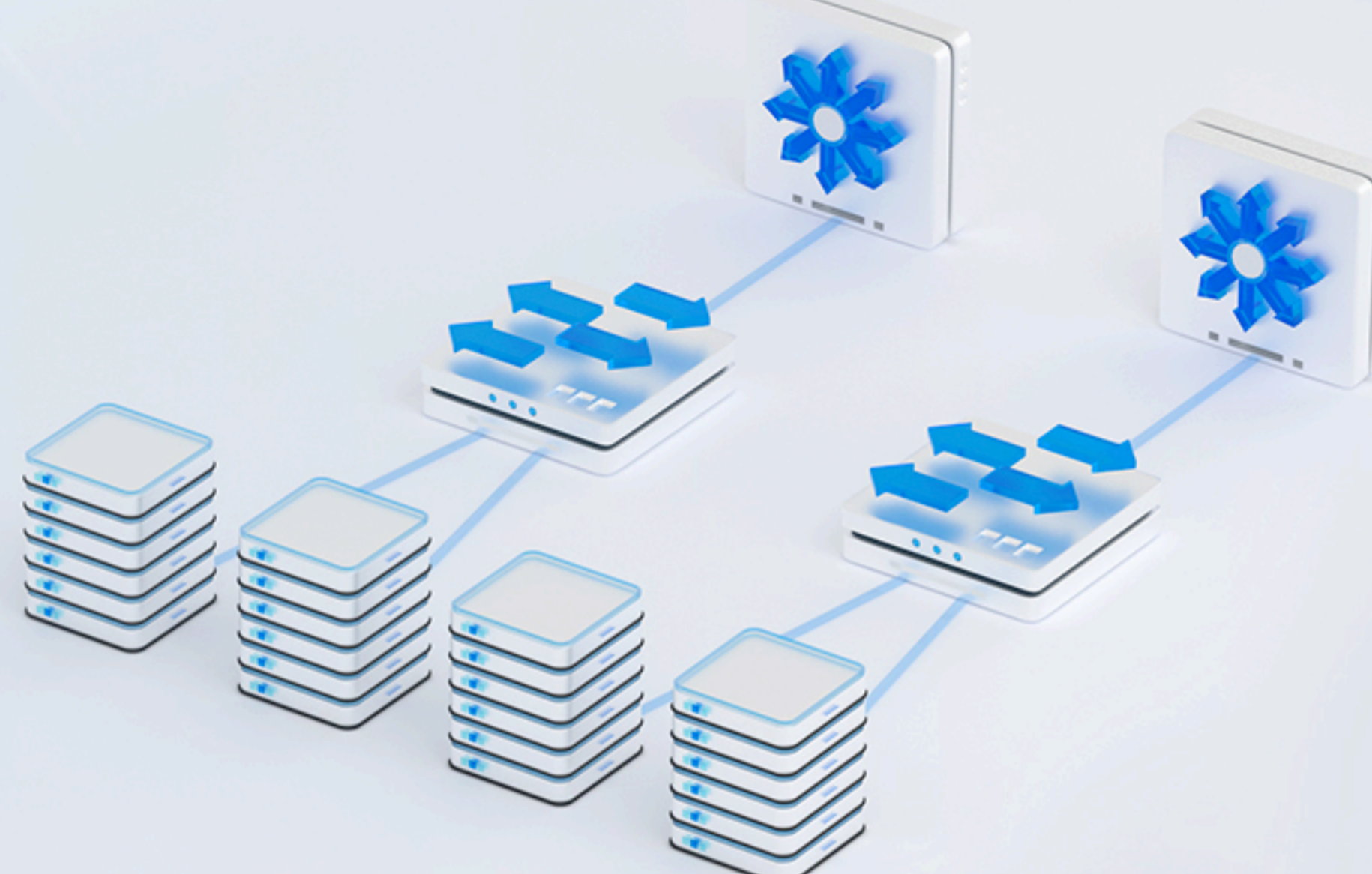
Try Virtualization Solutions

Using virtualization technologies can reduce the number of new servers required to replace inefficient servers by sharing workloads among multiple servers.



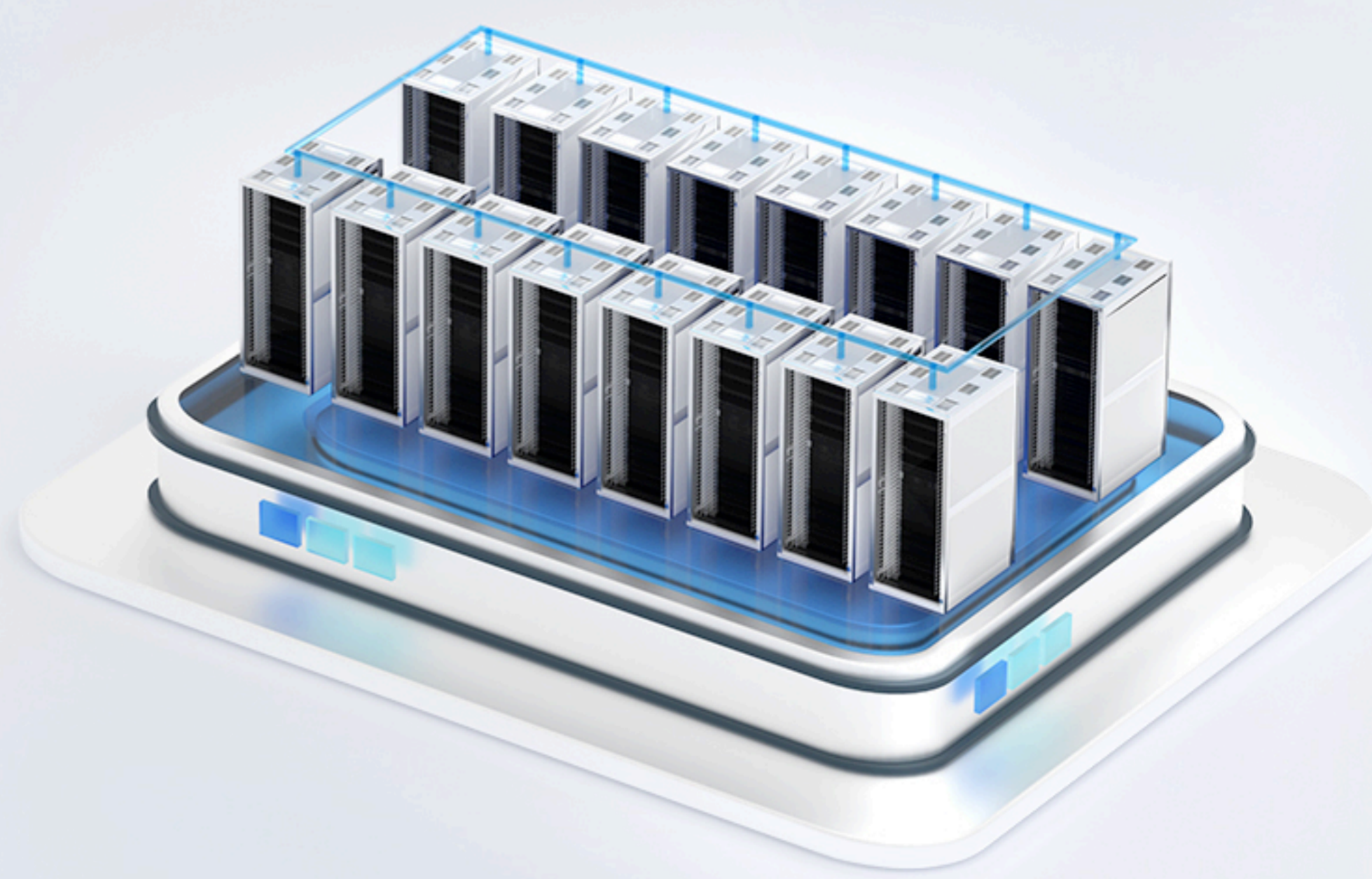
Improve Architecture Efficiency

When planning a new data center, it is important to consider carefully the current design, future servers, and equipment, and how these devices will integrate with each other.



Optimize Vertical Space

Making use of vertical space can increase the capacity and density of the data center without occupying floor space.



Increase Cabinet Power Density

By increasing cabinet power density, the requirements for cabinets will be reduced. This can also reduce management equipment and increase companies' return on investment.



Use Cooling Technology

Using technologies like hot/cold aisle containment can save data center space to some extent while also maintaining suitable temperatures.

