

Case Study

# Data Center Server Solution

FS Delivers Integration Solution for  
Nvidia® Devices-Equipped College Lab

FS delivers integrated server customization solutions for a California university equipped with Nvidia® devices, ensuring seamless setup and performance.

## FS Delivers Integration Solution for Nvidia® Devices-Equipped College Lab

### Country

 United States

### Industry

 Education

### Network Type

 Data Center Interconnect

### Solutions

 Internet Data Center

## Highlights

- Comprehensive virtual network construction solution, providing server integration and complex parameter customization services, ensuring compatibility with Nvidia® and other types of equipment
- Respond quickly to client emergency needs and maintain a stable supply of equipment.
- Conduct equipment configuration, debugging and testing for customers in advance

## Overview

FS provides cost-effective full-service server customization for a California college laboratory equipped with Nvidia® devices, offering comprehensive technical support to optimize device performance and network reliability. Additionally, FS manages customer payment methods flexibly and accommodates urgent delivery requirements, ensuring the smooth setup of the laboratory.

## Challenges

Customers face multiple challenges when customizing server parameters and ensuring compatibility with the lab's existing Nvidia® switches. The server parameters are complex, and customers lack sufficient professional knowledge and experience to provide accurate parameters based on the current laboratory environment. At the same time, it is necessary to ensure that the new server is compatible with the current Nvidia® switch. It is almost impossible for customers to debug and verify parameters by themselves.

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*"The 12 new servers arrived in excellent condition. They are racked and powered on. All matched the BOM exactly, and connecting them to the Nvidia® switches went very well. Everything from FS in regard to that PO is perfect! Thank you for putting in the additional effort to test and verify all components before completing our order!"*

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- The Laboratory Project Coordinator

## Key Stats

- 3 customized solutions are accessible, with cost-effective and user-friendly recommendations.
- 1 dedicated technical team guarantees accurate customization situations. Assists with parameter debugging and ensuring new servers are compatible with the lab's existing Nvidia® switches.
- Shorten delivery time by up to 25%, allowing enough time for laboratory setup.

# Case Study

## Data Center Server Solution



The customer has stringent time management requirements for the laboratory setup project. With server chip availability heavily affected by market fluctuations, they are worried about supply chain delays that could extend delivery times for goods and services, impacting project progress. The client urgently seeks to shorten the delivery timeline and deliver as soon as possible.

The client plans to establish two new virtualization environments, which may require up to 12 servers. However, due to limited funding, there is a need for a cost-effective solution that can achieve the same goals and effects. Furthermore, because the institution is public, they expect to be able to pay on account.

## Solutions

FS provides 3 customized solutions that are both economical and satisfy customers' network requirements. To reduce costs, we recommend using 100G DAC instead of MTP cables and 100G modules for server-to-Nvidia® switch connections.

As an elite partner of Nvidia®, FS has in-depth knowledge of its devices, technology, and related solutions. We swiftly coordinate experts from solution design, testing, delivery, and execution to support our customers comprehensively. They assist customers in confirming parameters before purchase to guarantee that new servers are compatible with the lab's existing Nvidia® switches. After delivery, our experts assist with parameter verification and equipment debugging to guarantee that the customized product fulfills expectations.

### FS Customized Integration Services



#### Whole Process Management

From Solution Design, Testing, Product Delivery to Implementation, FS Expert Team Provides Customers with Comprehensive Support



#### Professional Customized Services

1 to 1 Service  
7 Branches Worldwide  
Free On-Site Service



#### Industry Tailored Clients

500K+ Users Trusted  
70,000+ Core Equipments & General Accessories



#### Numerous Customization Options

Storage Servers  
GPU Servers  
Workstations



#### Full Suite of Custom Integrations

Servers Integrate with Customization  
Network Cards, HDD, RAID Cards, RAM, CPUs, etc.

Consistent and outstanding supply capabilities ensure that clients receive high-quality items. Supports multiple payment methods, allowing customers to adjust operations based on their own requirements. FS helps customers expedite critical financial and product supply procedures and maintains the general advancement of laboratory virtual network integration construction.

### Results

The customer chose the customized RS6140-V2 server and FS for Mellanox Compatible 100G QSFP28 DAC for their solution. With precise configurations that fit the customer's budget, FS's tailored solutions exceeded expectations and effectively managed project expenses.

FS successfully shortened the delivery time by 25%, significantly reducing the possibility of delays in the laboratory setup project. The FS technical team assisted customers in configuring and verifying parameters for FS custom servers and Nvidia® switches, ensuring stable server operation and providing an efficient and reliable data center environment for the laboratory.



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