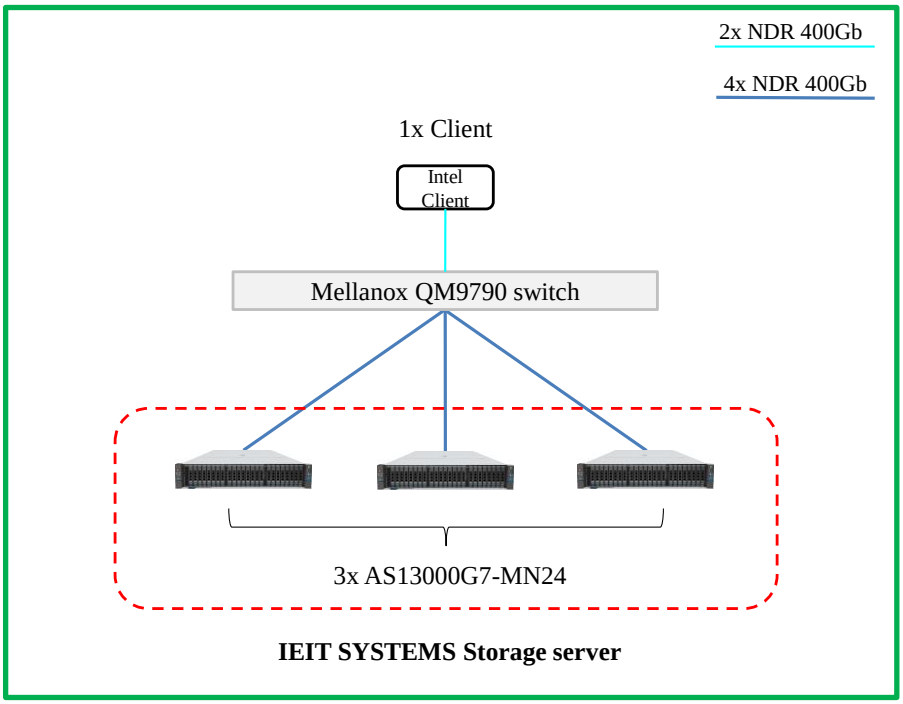
1. Overview

This benchmark test uses a three-node storage server. This is the minimum storage cluster size for AS13000G7-MN24.

2. Hardware Diagram



2.1 Client

The client is equipped with a single Intel 8558 CPU, 512GiB of memory, and 2 400Gb IB network cards.

2.2 Server

The server uses the IEIT SYSTEMS AS13000G7-MN24 storage server, equipped with 16x 7.68TiB NVMe drives, 4x 400Gb IB network cards, provides a unified distributed file system, named ICFS.

2.3 Switch

Mellanox QM9790 switch.

3. Software

3.1 Client

Client OS – CentOS Linux release 8.4.2105

Client Kernel – 4.18.0-305.3.1.el8.x86_64

Mellanox OFED version – 5.8-1.1.2.1

IKC (used to access the remote ICFS filesystem.) version – ikc-7.1

3.2 Server

Storage Servers OS – kos release 5.8

Storage Servers Kernel – 4.19.91-26.6.19.kos5.x86_64

Mellanox OFED version – 5.8-1.1.2.1

Storage Servers version –icfs version 7.1

4. Settings

4.1 Client

Example ICFS mount command from client:

```
mount –t icfs 192.168.61.228:6789,192.168.61.183:6789,192.168.61.204:6789:/share/sys_tenant/sys_ns/mnt/ikcdir –o rasize=8388608
```

4.2 Server

Storage software and operating system integrated into a single image.

InstorageManager V7.1 is used for cluster deployment and cluster management.