



# The Power of Software and Flash

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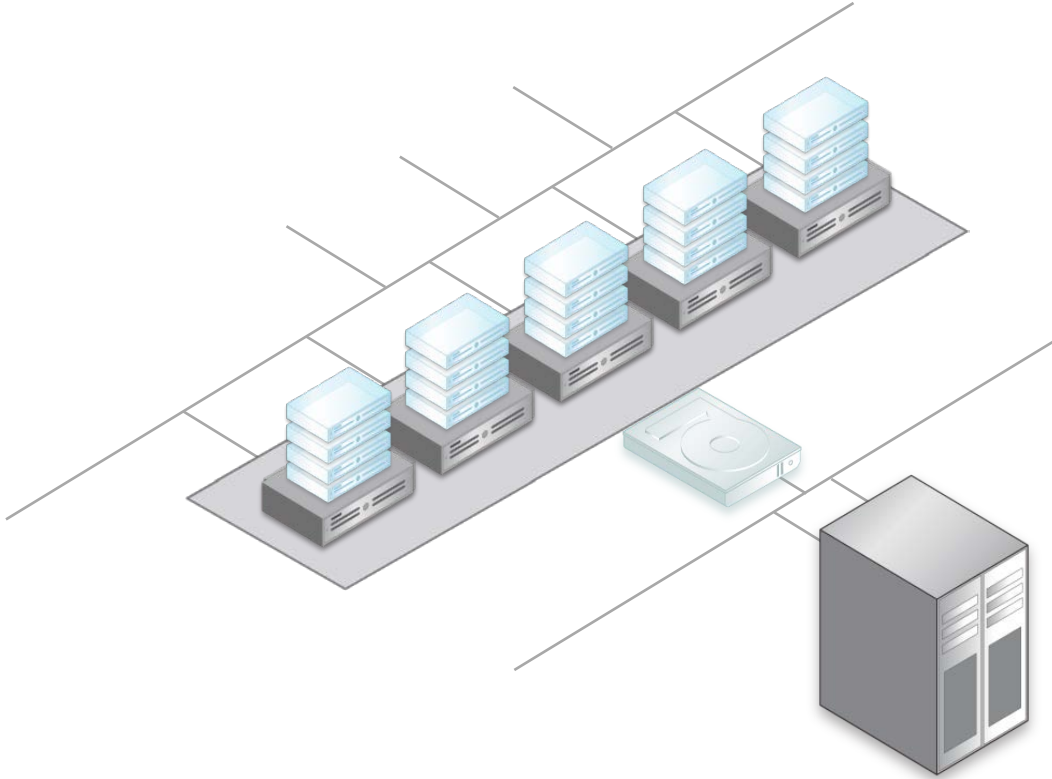


# The Power of Software

## Software-Defined Storage

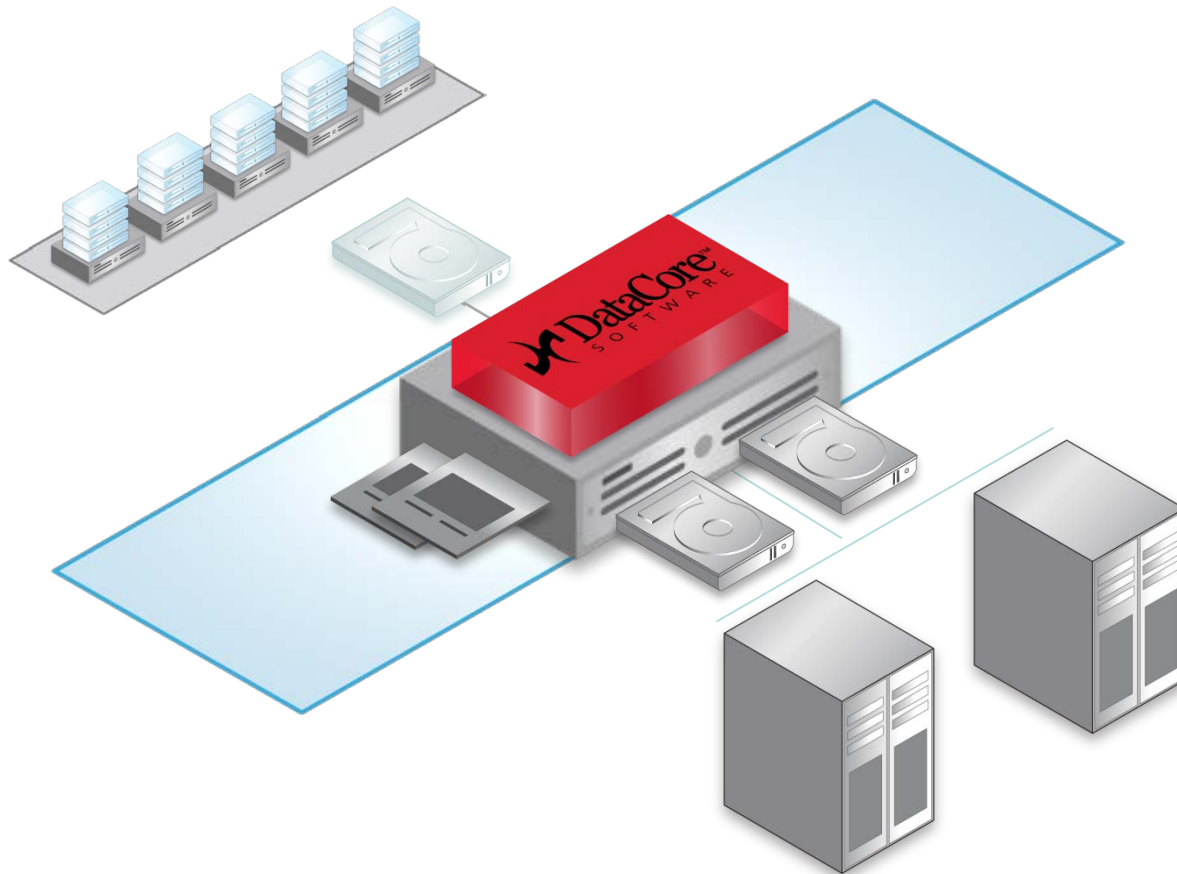


# Traditional



# Base Architecture

## Abstraction through Storage Virtualization

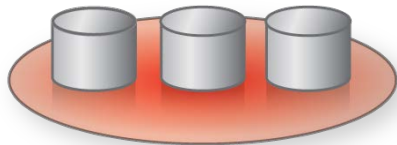


## Traditional: Virtual Disk Assigned to Tier

- Best practice: Don't mix disks of different performance characteristics and/or sizes within one pool

### Tier 1

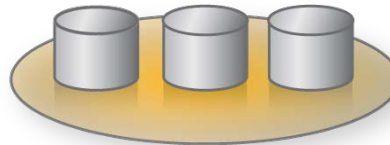
Fastest Performance



- ERP
- Transactional workloads
- Databases

### Tier 2

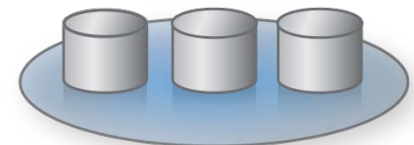
Balanced performance/costs



- File
- Email
- User home directory

### Tier 3

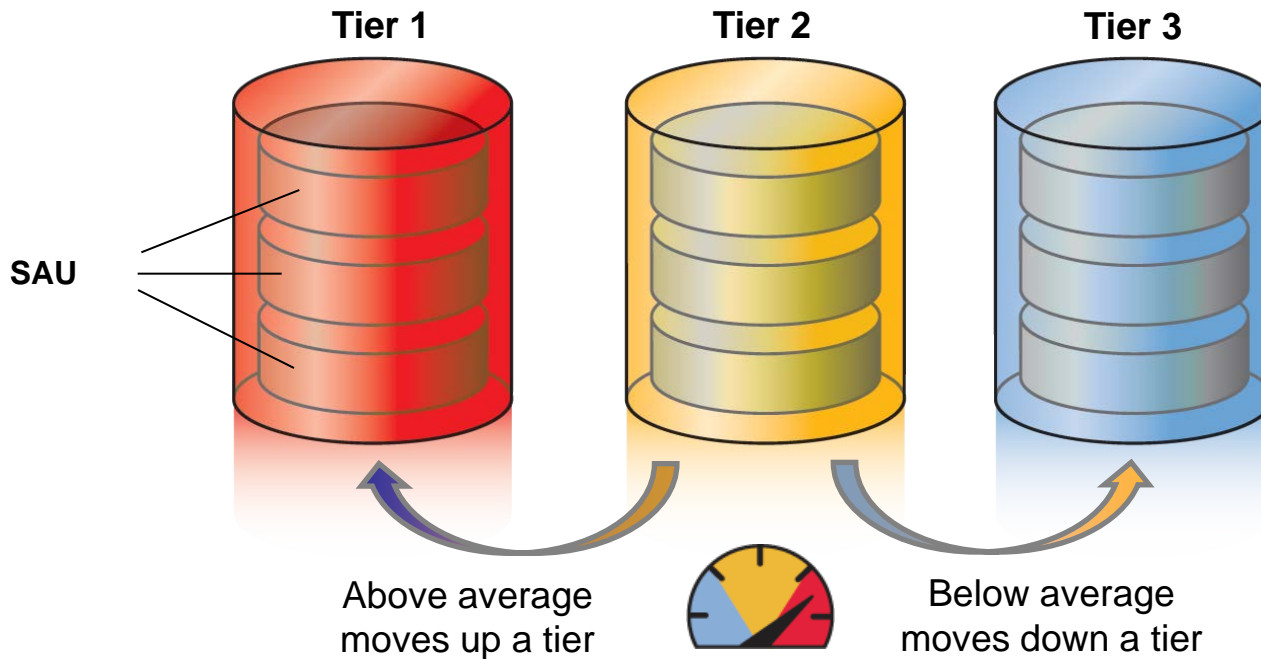
High capacity/Low Cost



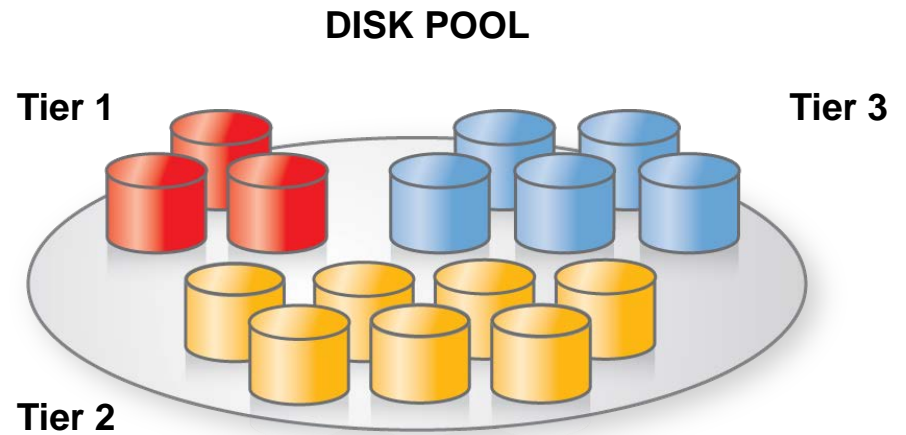
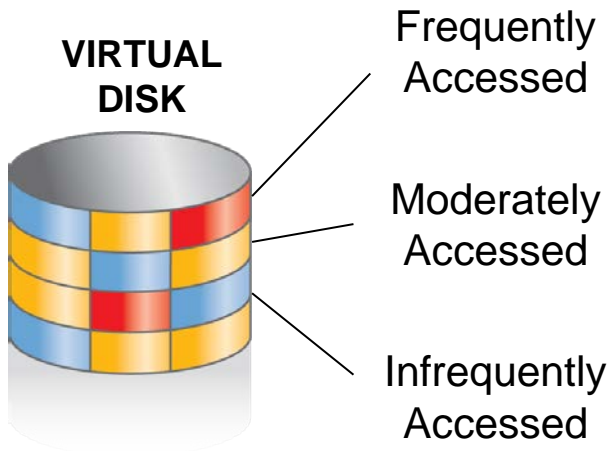
- Archive
- Backup-to-disk
- Scratch files

## Auto Tiering – How it works

- Monitor sustained I/O behavior across storage units
- Promote or demote storage units to most suitable tier

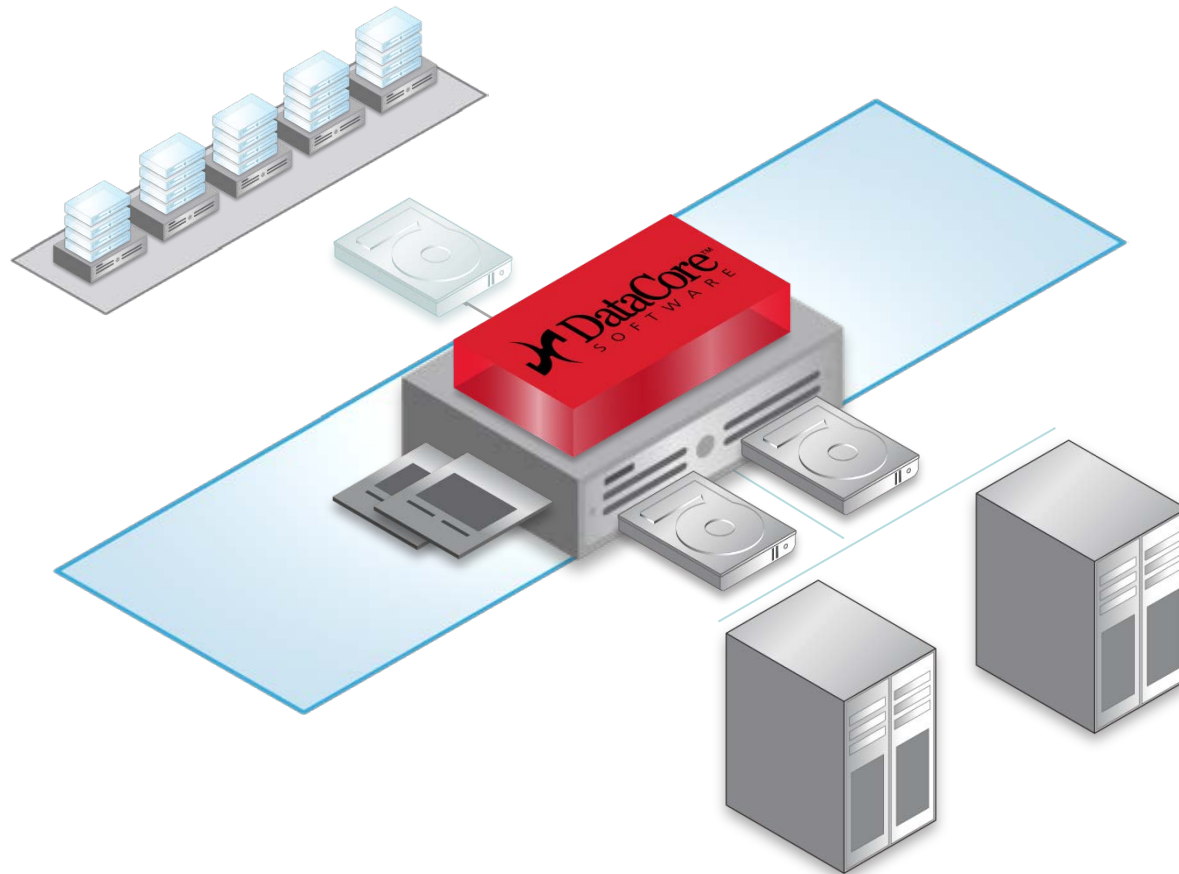


# Sensing Hot Spots within a Virtual Disk



# Base Architecture

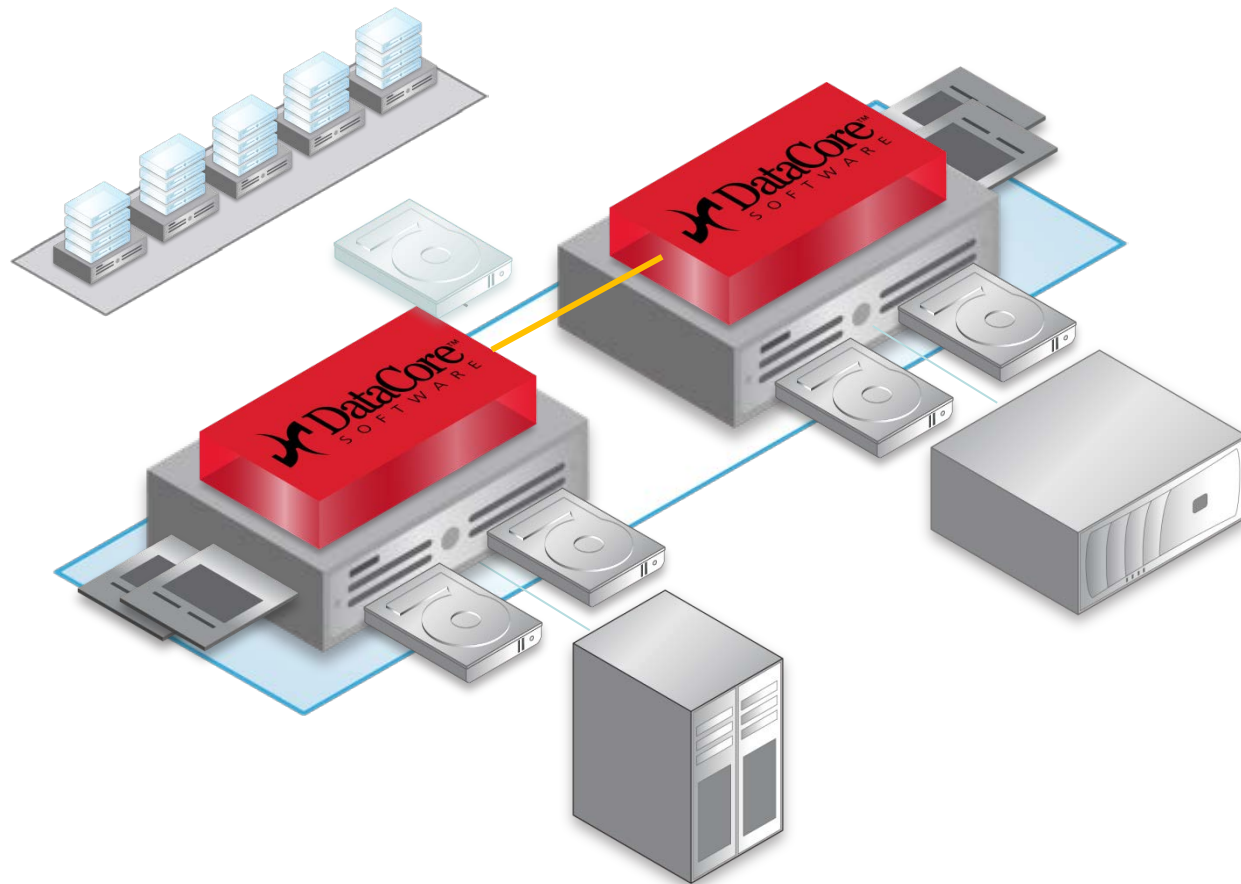
## Non-disruptive insertion of Flash





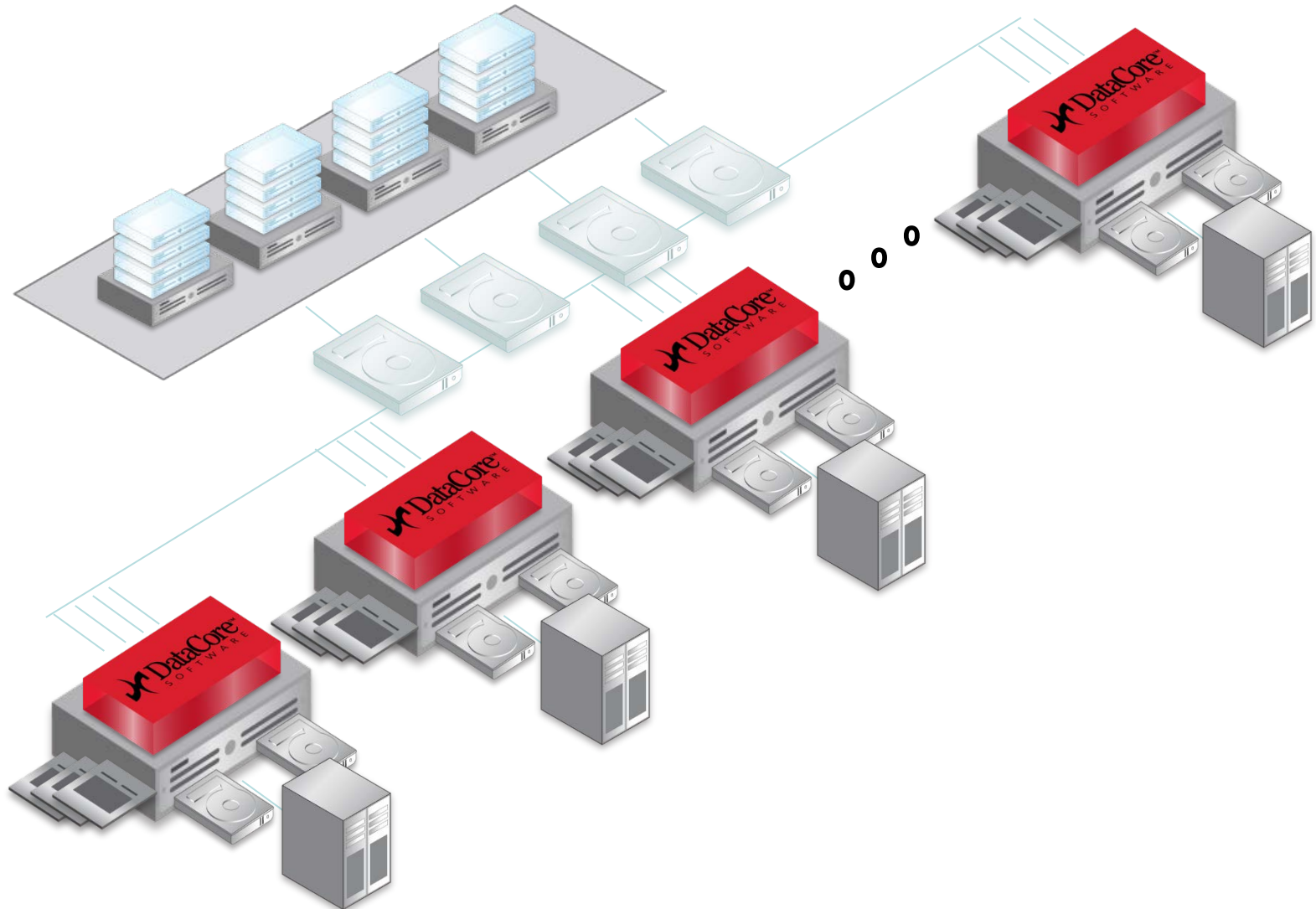
# Base Architecture

## High Availability and High Performance



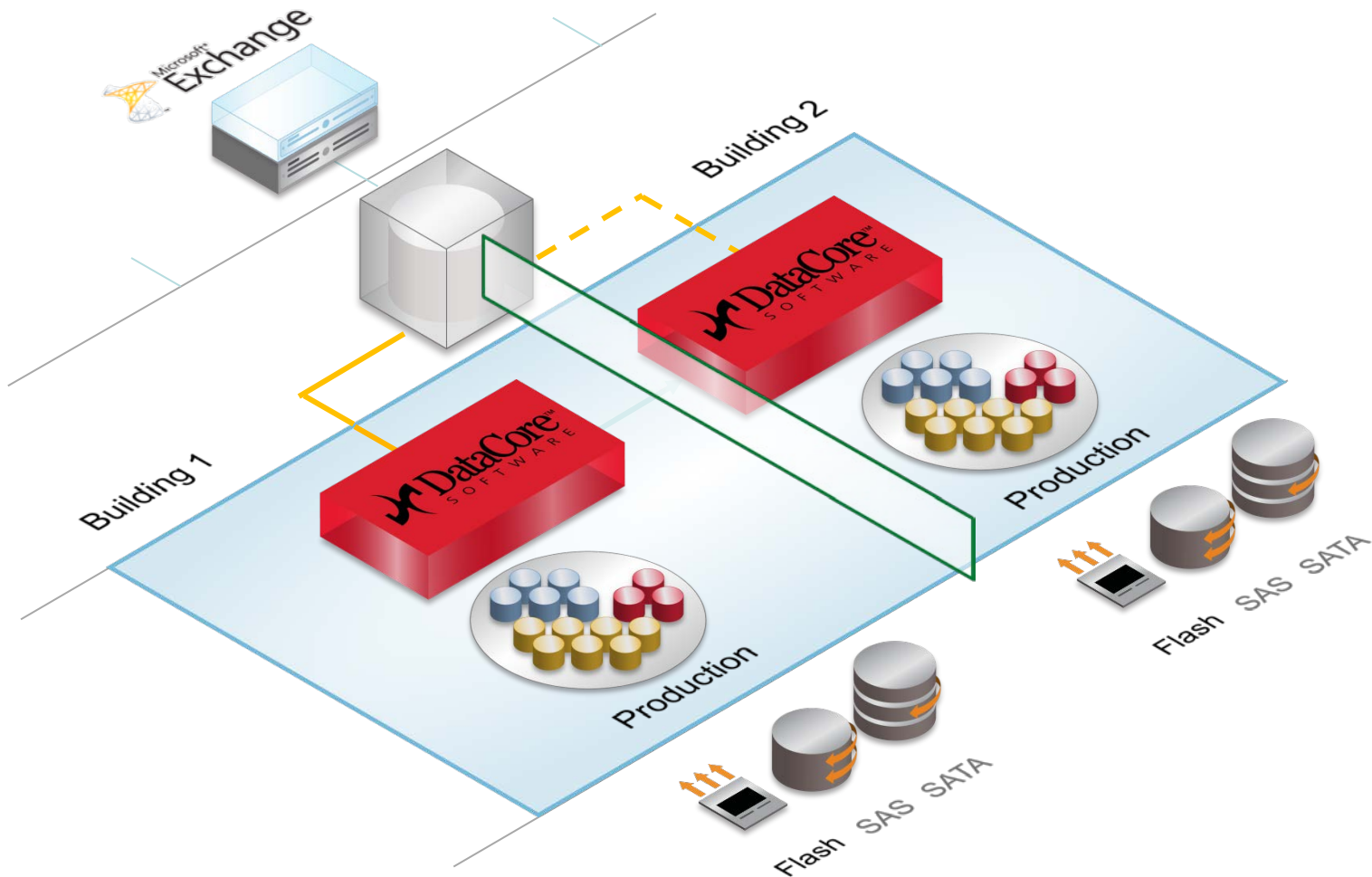
# Base Architecture

## Scale out performance



# Separation of Resources

No single point of failure





**Thank You ...**

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