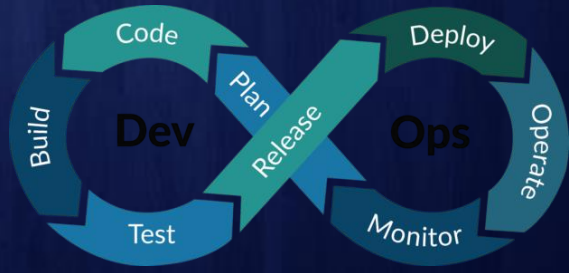
AWS SAA + SysOps + Developer + DevOps Course #Day-8

We will start at 8 AM,
Stay tuned



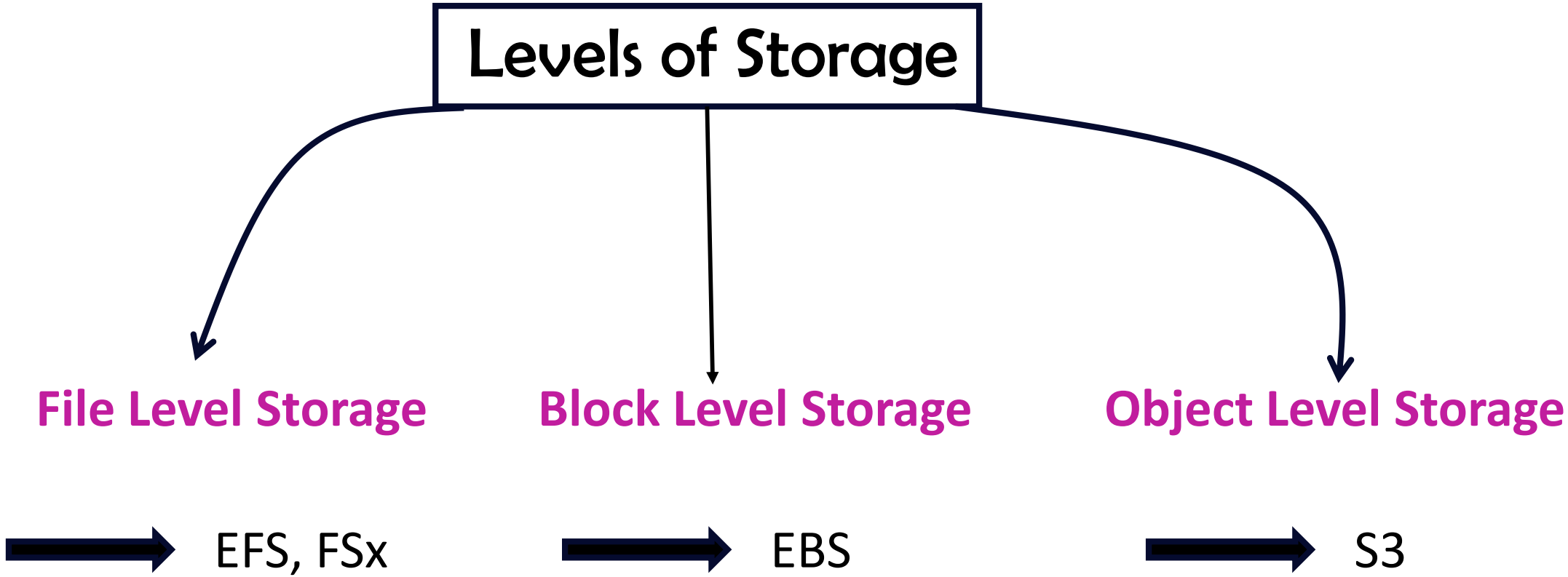
RAKESH TANINKI
LEARN TO UNLEARN

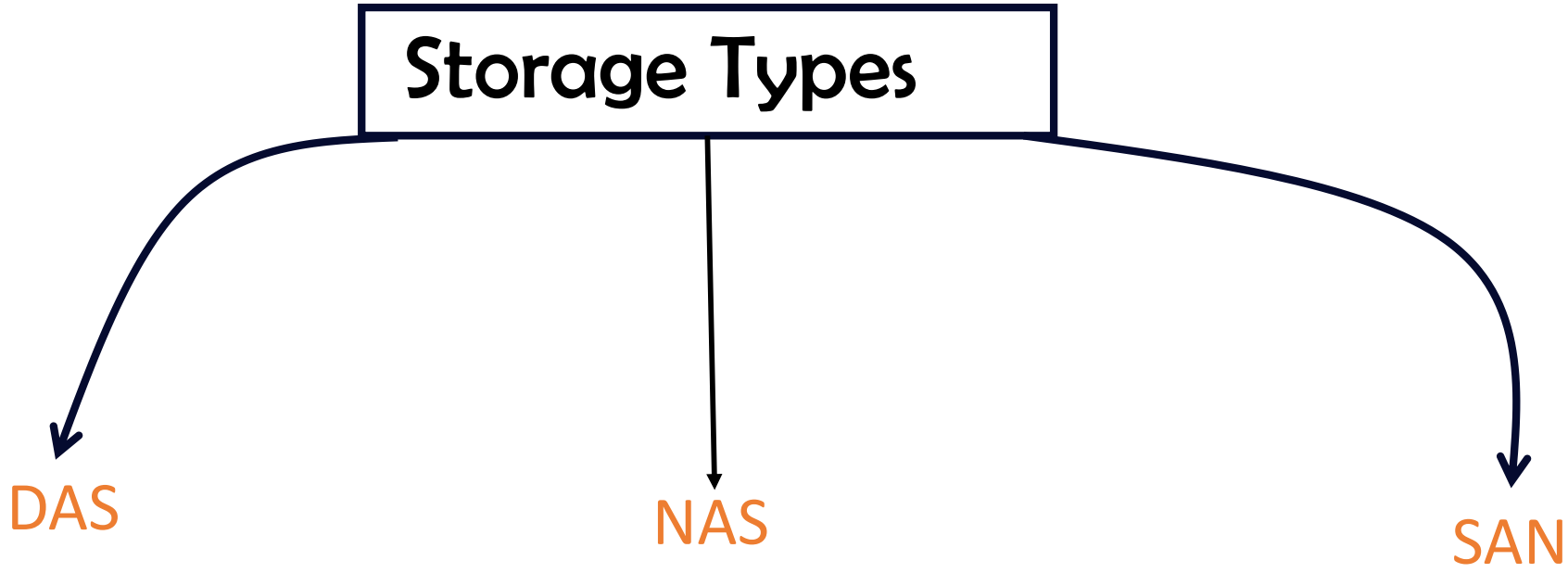
Recap:

- Virtualization basics
- EC2 Basics
- Hands on – EC2 Linux
- Hands on – EC2 Windows

Today's topics:

- Levels of Storage
- S3 Service
- Hands on – S3

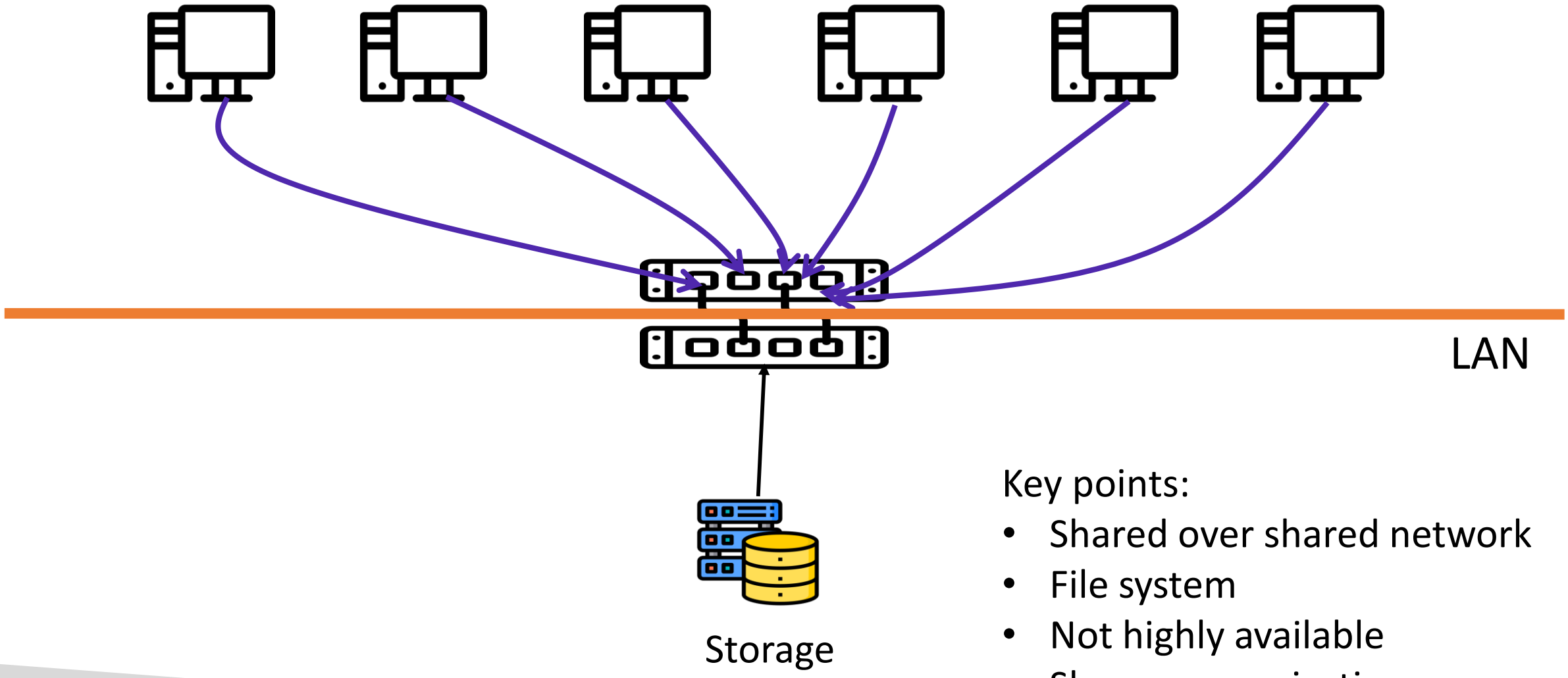




- DAS → Direct Attached Storage
- NAS → Network Attached Storage
- SAN → Storage Area Network

DAS – Direct Attached Storage

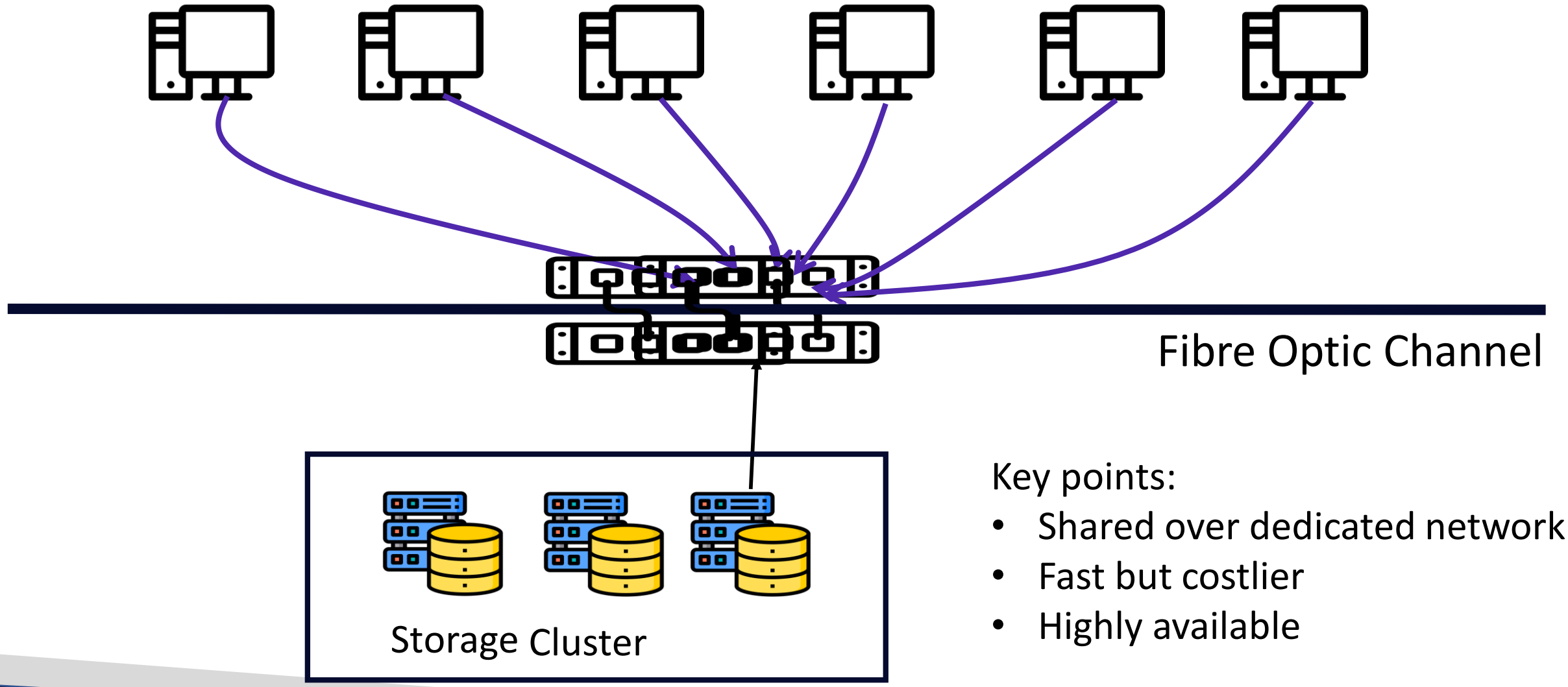
NAS – Network Attached Storage



Key points:

- Shared over shared network
- File system
- Not highly available
- Slow communication

SAN – Storage Area Network

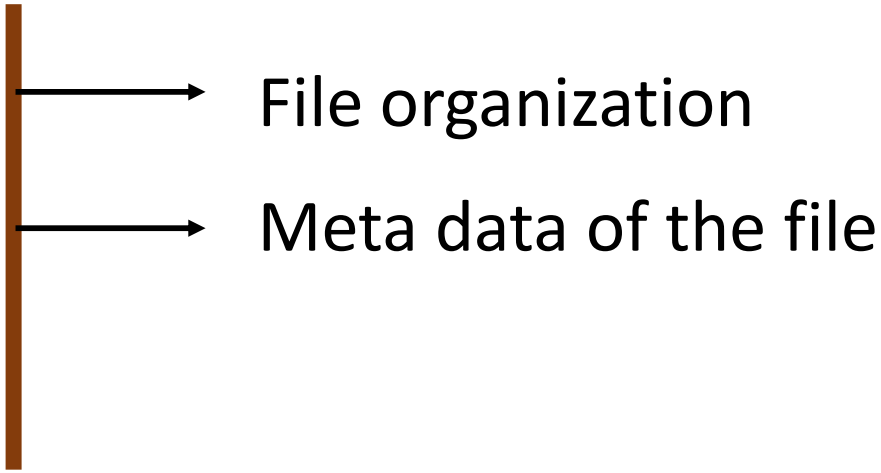


Key points:

- Shared over dedicated network
- Fast but costlier
- Highly available

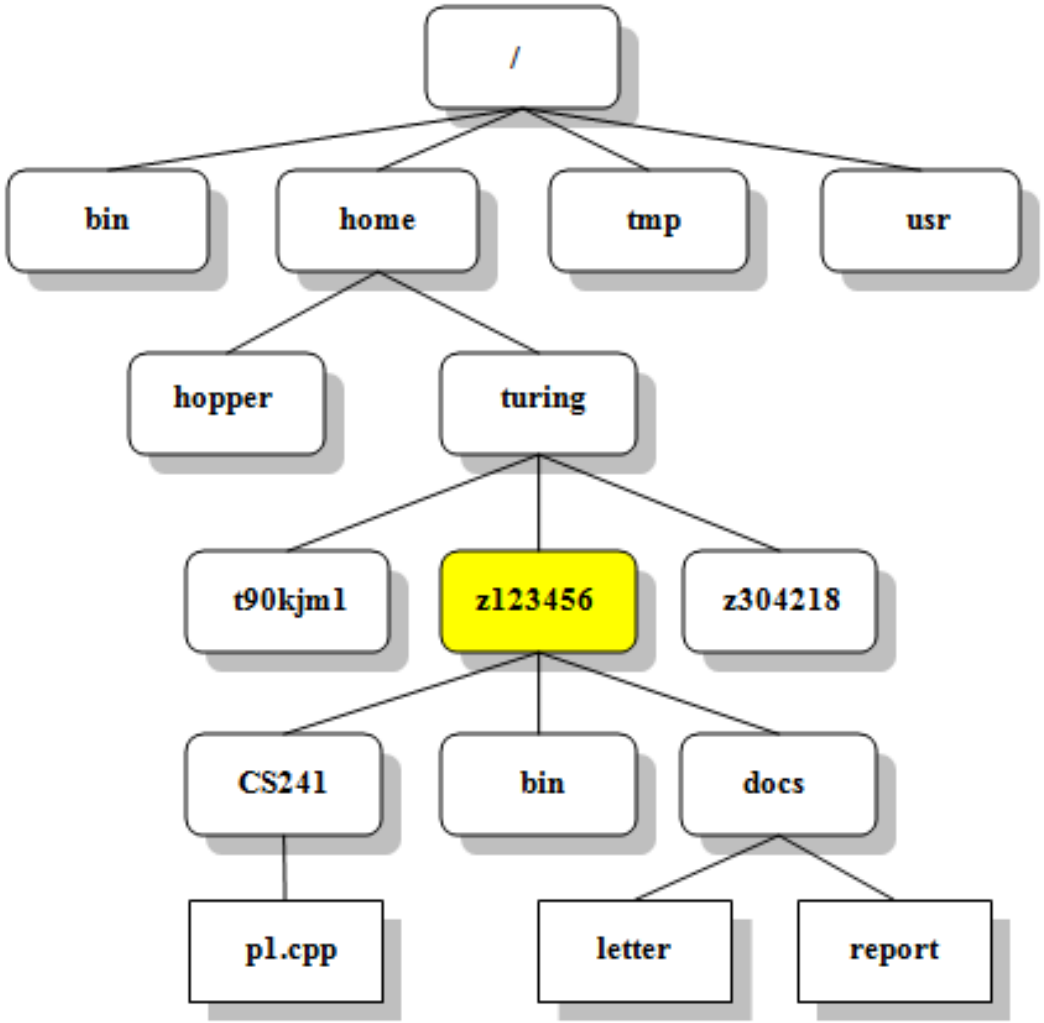
Levels of Storage

- File Level Storage
- Block Level Storage
- Object Level Storage



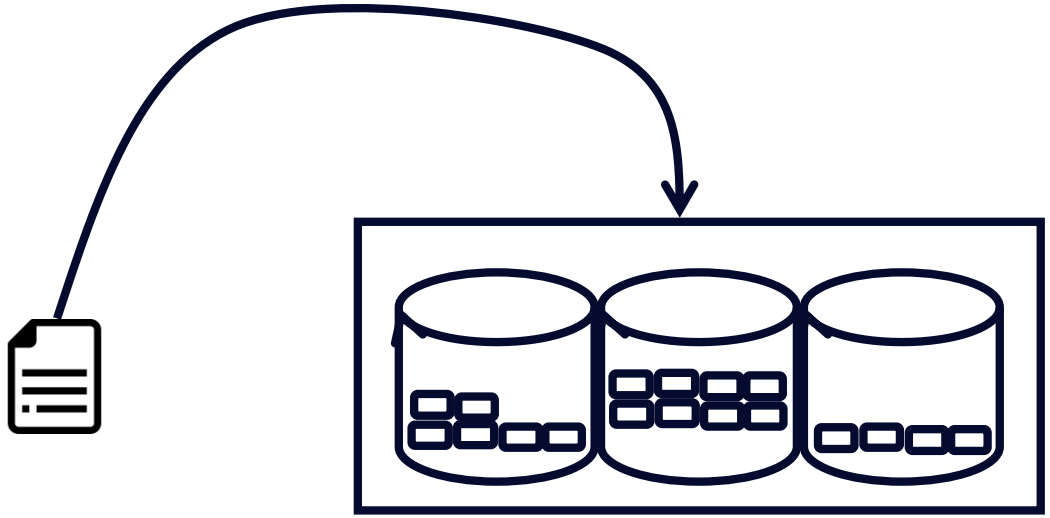
File Level Storage

- Top to down approach
- Stored as files only
- Ex: Linux
- EFS for Linux OS
- FSx for windows OS



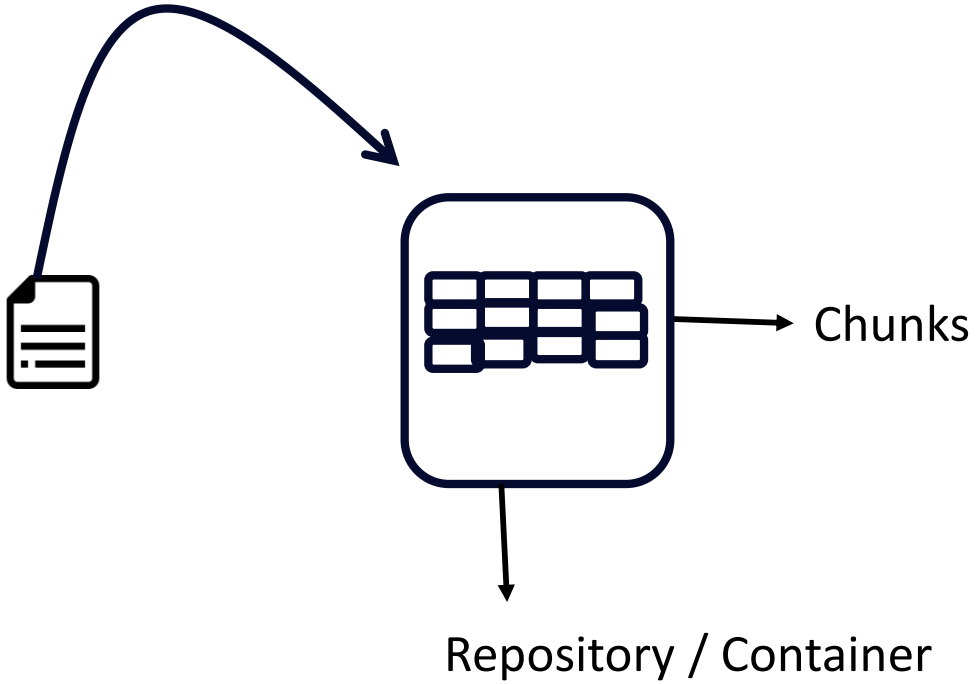
Block Level Storage

- Stored in blocks
- Used in Hard disks, databases
- Faster access
- EBS – Elastic Block Store



Object Level Storage

- File stored as container
- Each container has an unique id
- Flat structured storage
- Can store more meta data
- Privacy policies
- Faster retrieval
- Photos, videos, PDFs, etc,.
- Ex: S3, Google Drive



AWS S3:

- S3 – Simple Storage Service
- Object level storage
- Flat structured storage
- Similar to Google Drive, One Drive
- Region Specific
- Highly Scalable – 0 bytes – 5 TB per file
- Unlimited amounts of data
- Stored as buckets and objects

AWS S3 Demo

Thank you, will meet in tomorrow's session