

1. The world is changing ...



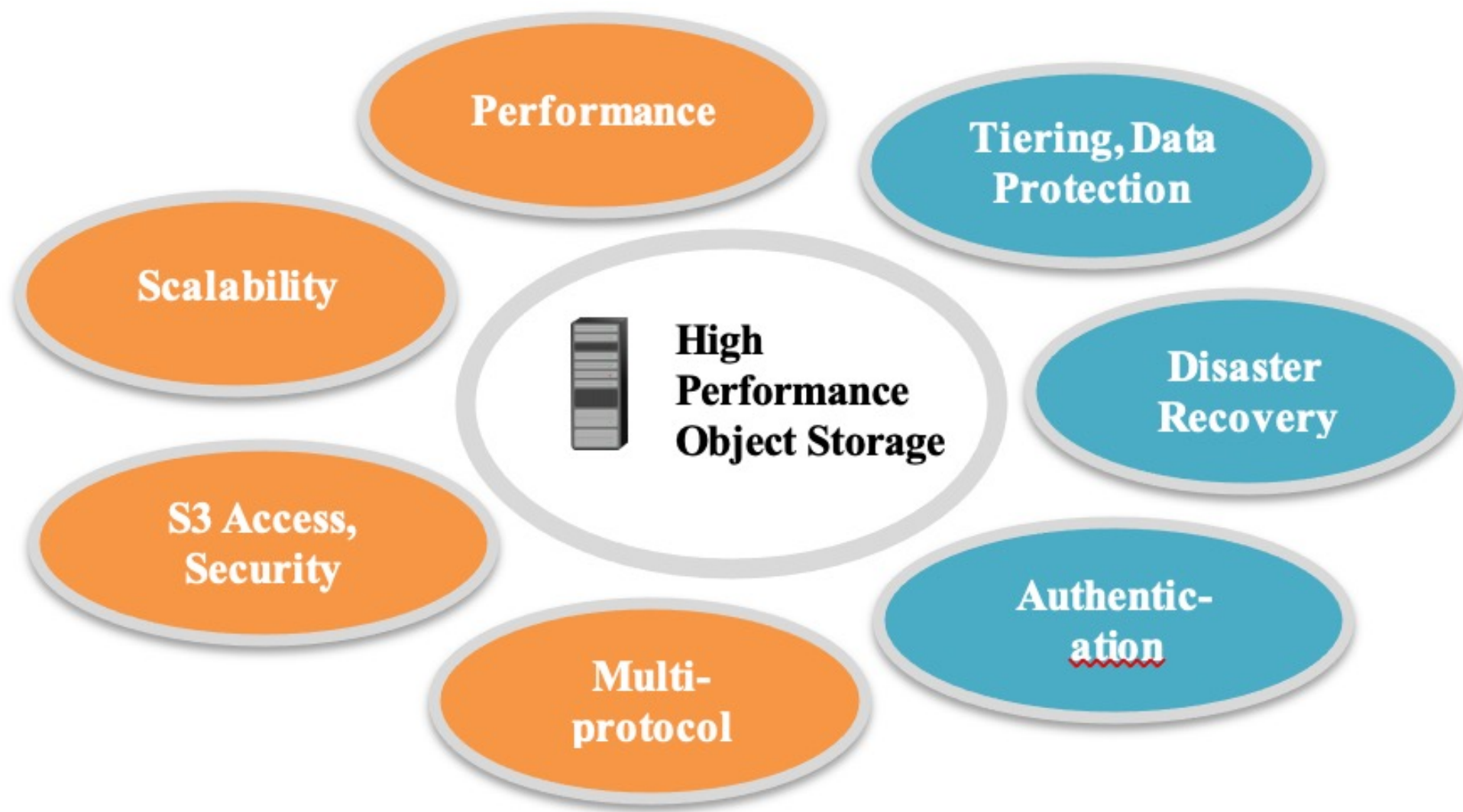
2. Need of High Performance Object Storage

More than 80% of enterprise unstructured data will be stored in scale-out file systems and object storage systems in enterprise and cloud data centers, an increase from 30% today.

2.1. Major Benefits of High Performance Object Storage

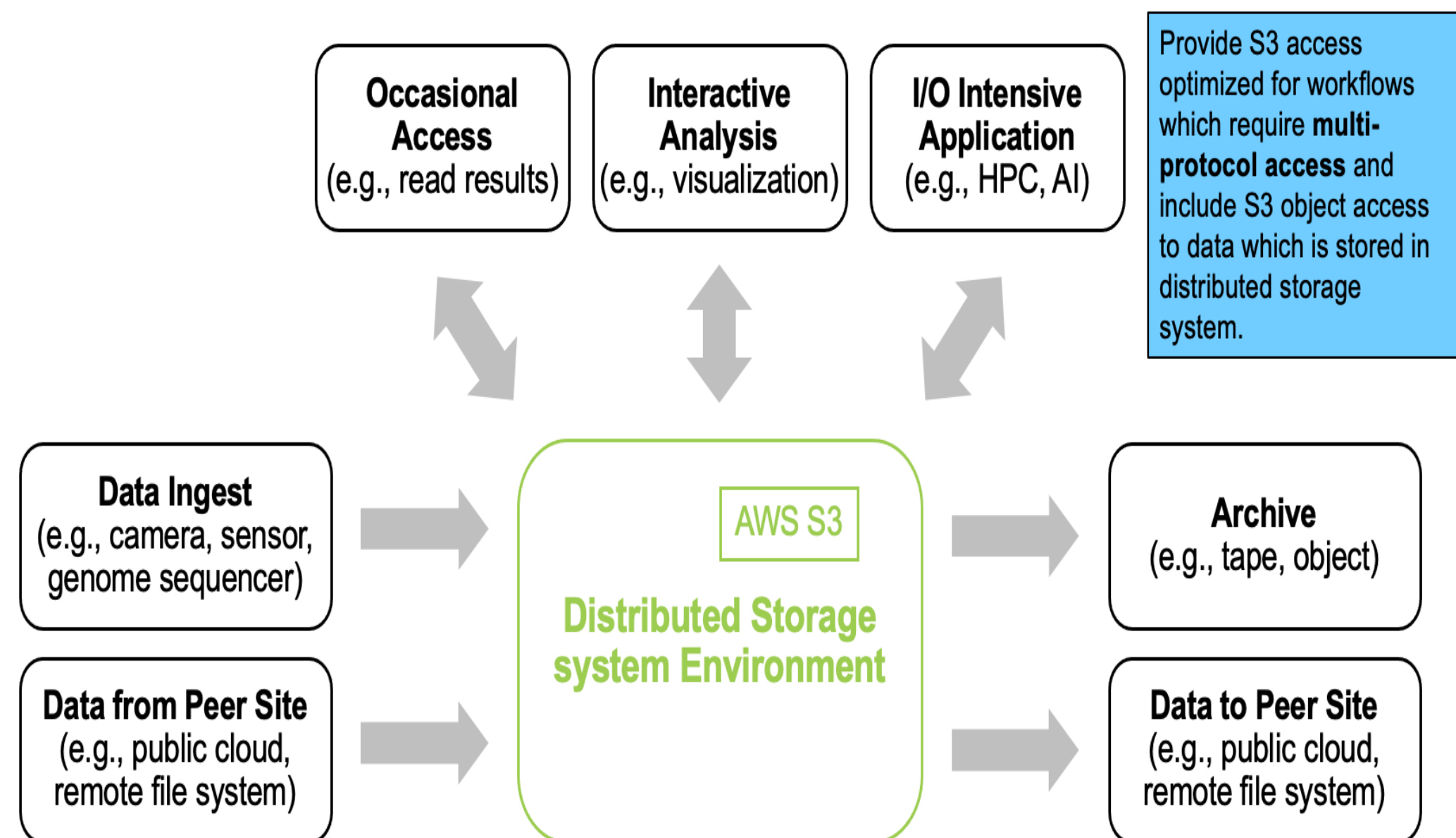
- Suitable for Unstructured Data
- Meets the demands for high speed, low latency, and scale from storage
- Cost-effective as it provides low-cost storage for large capacity of data
- AWS S3 protocol for object storage access is now de-facto standard for object access, and used by many vendors

3. High Performance Object Storage Features for HPC, AI and Analytics

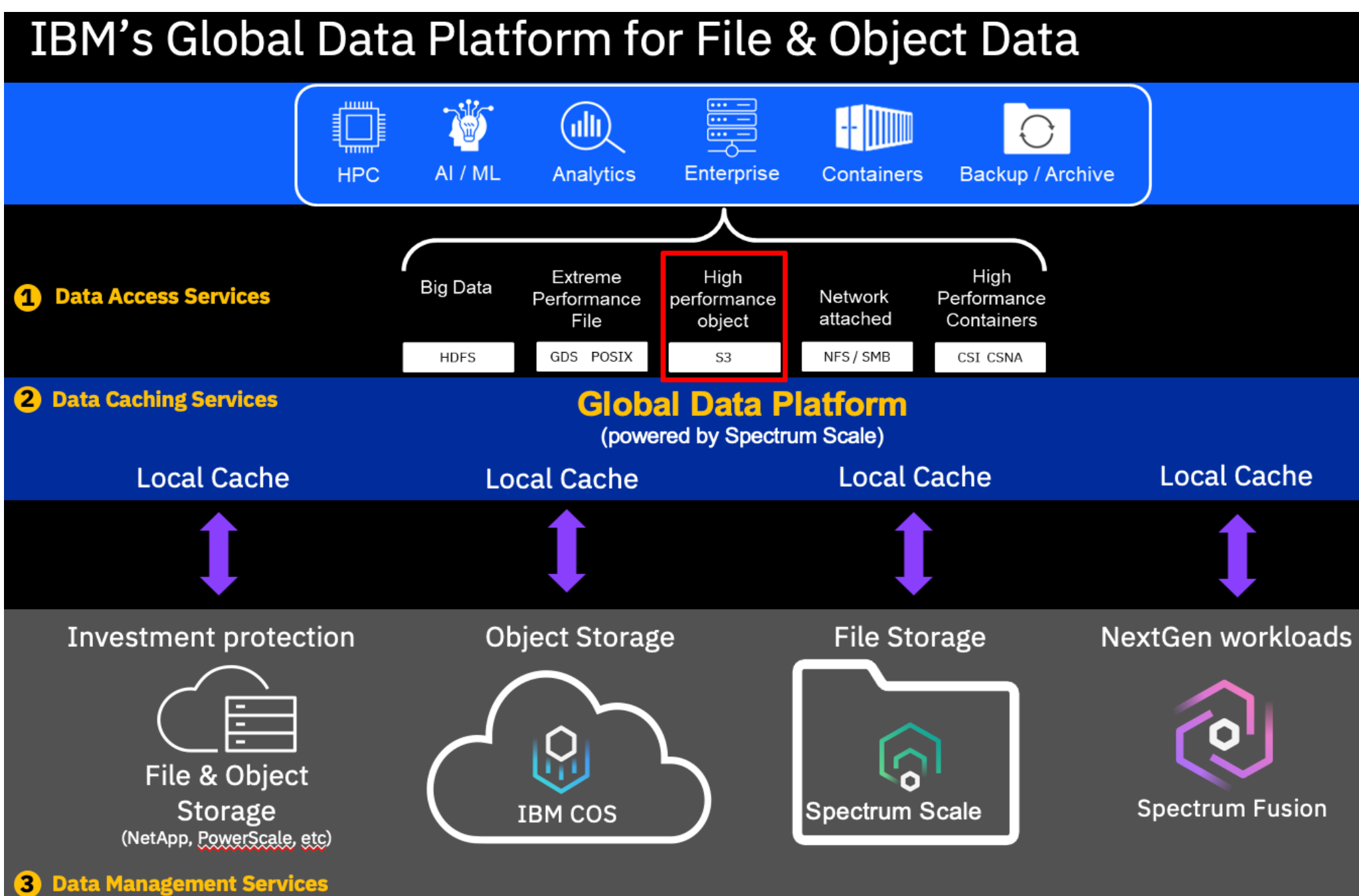


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|--------------------------|---|
| Performance | Provide faster object storage access |
| Scalability | Scalable storage supported by scalable compute nodes |
| AWS S3 Access | Makes it suitable for cloud-native applications |
| Muti-protocol Access | Unified data access with multiple protocols like S3, NFS, Samba etc |
| Tiering, Data Protection | Efficient storage usage by assigning data to various categories of storage and safeguarding data. |

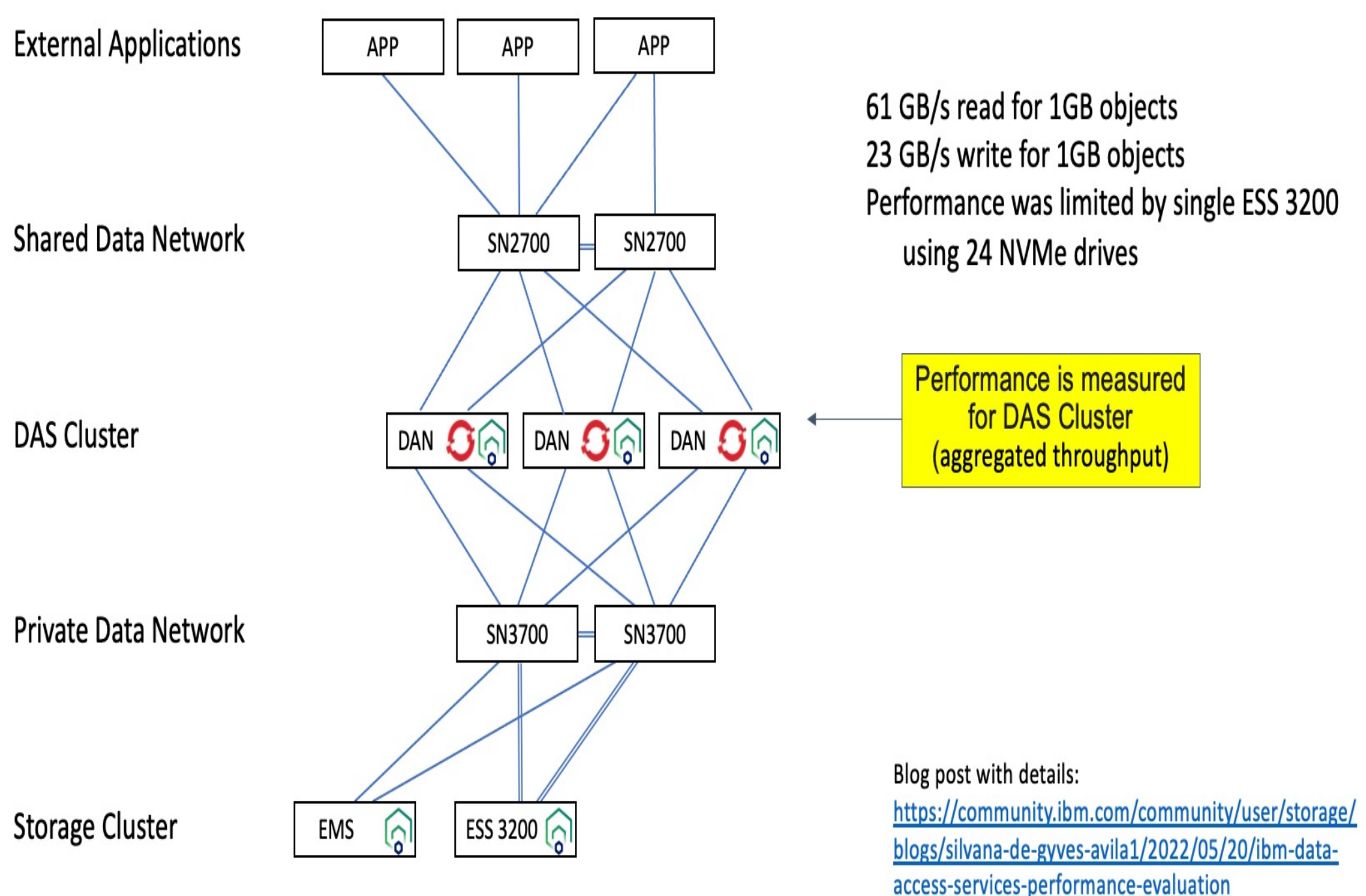
4. Use Case: Data Scientists accessing AI application data at high speed with High Performance Object Storage



5. IBM Spectrum Scale DAS (Data Access Services) S3 in IBM Global Data Platform



6. IBM Spectrum Scale DAS S3 cluster – Reference Architecture and Performance Numbers



References:

- IBM Spectrum Scale DAS: <https://www.ibm.com/docs/en/scalecontainernative?topic=516-spectrum-scale-data-access-services>
- Red hat OpenShift Data Foundation: <https://www.redhat.com/en/technologies/cloud-computing/openshift-data-foundation>