

# UNITY™ BACKUP SOLUTIONS

## OVERVIEW

Backup is an essential part of an organization's overall data management strategy. It is clear that the ability to store and access data is not sufficient, and that maintaining consistent copies of data over time and being able to access it at any time, is important. This accessibility allows the retrieval to the state of data at an earlier point in time or allows restoration due to data loss within the primary storage layer. The 3-2-1 rule is a widely adopted strategy for data management, which recommends the maintenance of 3 copies of your data, 2 copies on different media and 1 off-site or immutable copy. The focus of this brief is backup storage solutions.

## BACKUP TARGET REQUIREMENTS

### Versatile and Efficient Data Ingest and Recovery

A backup destination must be capable of integrating into any backup solution and ingesting and recovering data with multiple GB/s of throughput. This enables plug-n-play deployment, scaling to multiple backup clients, and the ability to quickly access backups when desired.

### Capacity and Scale

Backup capacity requirements are typically sized to be multiples of the size of the amount of source data. This allows a user to maintain several full backups and incremental backups only constrained by backup storage capacity. A backup destination therefore needs to be able to scale to petabytes (PB) and more.

### Integrity and Availability

Storage media has finite endurance. A backup target, like any primary storage solution, should provide the ability to tolerate storage media failure and keep backed up data readily available.

### Low TCO

Backup storage isn't primary storage. The purpose of backup storage is to ingest and retain vast amounts of data. Access is only needed when primary data is not accessible, or when an earlier point-in-time backup is required. Such a layer needs to be extremely dense and cost-effective.

### Security

Not all backups are equal. Some backups are considered "high-value". Examples include backups of data that are essential to the functioning of a business - data that one cannot afford to lose due to cyberattacks, malware, ransomware, or even human errors.





