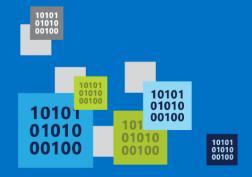
## Case Studies





## Design a Non-relational Storage



## Requirements

- Tailwind Traders want to reduce storage costs by reducing duplicate content and, whenever applicable, migrating it to the cloud. They would like a solution that centralizes maintenance while still supplying world-wide access for customers who browse media files and marketing literature. Additionally, they would like to address the storage of company data files.
- Media files. Media files include product photos and feature videos that are displayed on the company's public website, which
  is developed and supported in-house. When a customer browses to an item, the corresponding media files are displayed.
   The media files are in different formats, but JPEG (Joint Photographic Experts Group) and MP4 are the most common.
- Marketing literature. The marketing literature includes customer stories, sales flyers, sizing charts, and eco-friendly
  manufacturing information. Internal marketing users access the literature via a mapped drive on their Windows workstations.
   Customers access the literature directly from the company's public website.
- Corporate documents. These are internal documents for departments such as human resources and finance. These
  documents are accessed and managed via an internally developed web application. Legal requires that various documents be
  kept for a specific period of time. Occasionally documents will need to be kept longer when legal or HR issues are being
  investigated. Most corporate documents older than one year are only kept for compliance reasons and are seldom accessed.
- File location. All the files are stored locally in the central office datacenter. There are numerous file shares organized by department or product line. The data servers are struggling to provide files for the website. During peak hours website pages are slow to render.
- File access frequency. Some products are more popular, and that data is accessed more often. However, some products, like ski gear, are only accessed during that season. Sales events also generate a lot of interest.

## **Tasks**

Design a storage solution for Tailwind Traders.

- What type of data is represented?
- What factors will you consider in your design?
- Will you use blob access tiers?
- Will you use immutable storage?
- How will the content be securely accessed?
- 2. Your solution should consider the media, marketing literature, and corporate documents. Your recommendations may be different depending on the data. Be prepared to discuss your decisions.