FSx ONTAP

1. Introduction

NetApp

1. NetApp is a multinational technology company known for its data management solutions.
2. NetApp, originally known as Network Appliance Inc., began its journey in 1992.
3. NetApp particularly known for its NAS (Network Attached Storage) products and services and holding a reputation for reliability and service quality.
4. NetApp Provides These Data Management Services
   1. Data Storage
   2. Data Protection
   3. Data Management
   4. Data Sharing
5. NetApp's One of the most significant and well-known flagship storage operating system is NetApp ONTAP

Subtopic (ONTAP)

1. ONTAP is essentially an operating system for data management.
2. Just like the operating system on your computer handles all your files and runs your programs, ONTAP manages all the data storage tasks for large businesses.
3. NetApp ONTAP comes in various forms, designed to suit different deployment methods and business needs.
4. Each product under the ONTAP umbrella maintains the core functionalities of ONTAP but is tailored for specific scenarios.
5. Here Is The List
   1. ONTAP 9
      1. This is the flagship ONTAP software
      2. Operates on dedicated NetApp hardware
   2. ONTAP Select
      1. ONTAP Select is a software-defined storage solution
      2. Deployed as a virtual appliance on a company's existing hardware
   3. Cloud Volumes ONTAP (CVO)
      1. Specifically designed for cloud environments
      2. Cloud Volumes ONTAP is the ONTAP software used in cloud services like
         1. AWS
         2. Google Cloud
         3. Azure
      3. It provides the same ONTAP experience in the cloud
      4. It is suitable for businesses looking to integrate their storage with the cloud or operate fully within a cloud environment

2. FSx ONTAP Features

1. Latency — <1 ms
2. Max. throughput per file system — 4-6 GB/s*
3. Maximum file system size — Virtually unlimited
4. Client compatibility — Windows, Linux macOS
5. Protocol support
   1. SMB
   2. NFS
   3. iSCSI (shared block storage)
6. AWS Compute
   1. EC2
   2. ECS
   3. EKS
7. Active Directory support — Yes
8. Anti-virus integration — Yes
9. Deployment options
   1. Single-AZ
   2. Multi-AZ
10. Availability SLA
    1. Single-AZ: 99.9%
    2. Multi-AZ: 99.99%