DIGITAL TALENT SCHOLARSHIP 2020

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AWS Storage Services

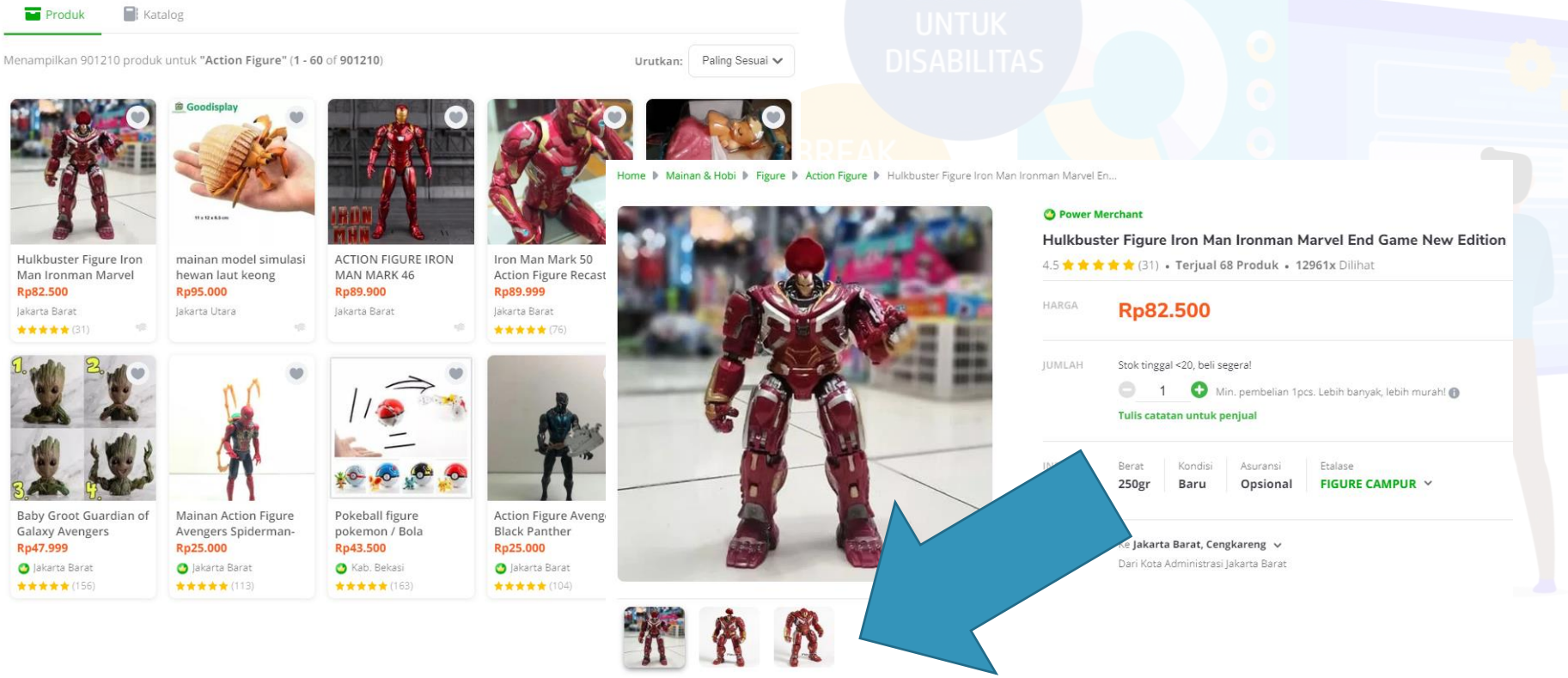
Agenda

- How to store data
- Elastic Block Store (EBS)
- Simple Storage Service (S3)
- Amazon Glacier
- AWS Storage Case Studies

How to store data ?

How about AWS ?

Where should they store this ?



273 produk **"shf"** di semua Kategori

Baru

Urut berdasarkan
Relevansi

Trending

DISEDIAKAN BLIBLI Tamashii 14818
478712 Shf Kr Ex-Aid Hunter Action Gamer Lv.5 Action...
Rp812.000
Tangerang

Trending

DISEDIAKAN BLIBLI Tamashii 09507
480667 Gunpla SHF Takeshi Hongou Action Figure
Rp812.000
Tangerang

Trending

Trending

SHF

SHF Ultraman Ginga 57631 Action Figure

Trending

Brand: SHF Belum ada ulasan

Harga	Harga awal ~~Rp875.000~~ Rp743.750 15% OFF
Blibli Rewards	+ 149 poin Blibli Rewards Info
Cicilan	Cicilan 0% mulai dari Rp61.979 /bulan Info
	Cicilan tanpa kartu kredit Tersedia Info
Metode Pengiriman	Pengiriman Langsung Stok Tersedia Pesanan dikirim langsung ke tempat Anda
	Ambil di Toko Tidak Tersedia Ambil pesanan langsung di store yang dipilih

- 1 +

BELI SEKARANG TAMBAH KE BAG

♡ Tambah ke Wishlist Share

Let calculate …

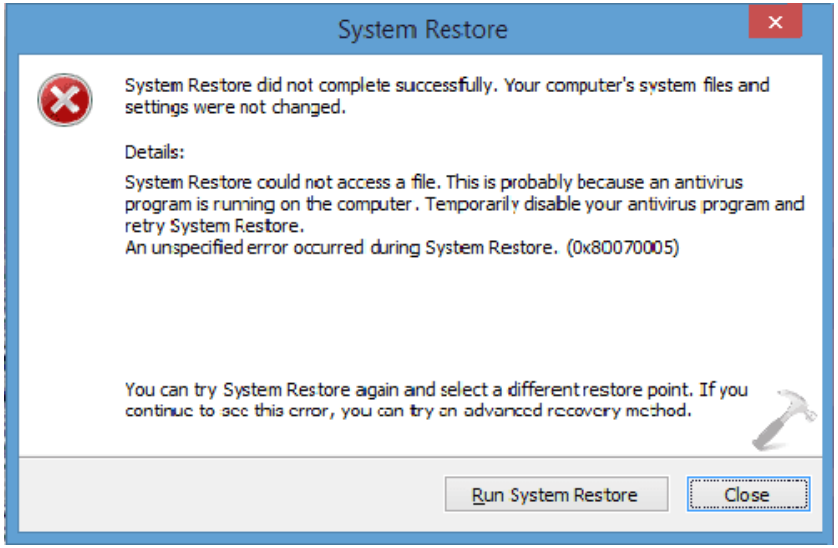
1 product, 4 images
If each seller sell 10 products, they will have 40 images
And if the market place have 10.000.000 sellers
They will have 400.000.000 images

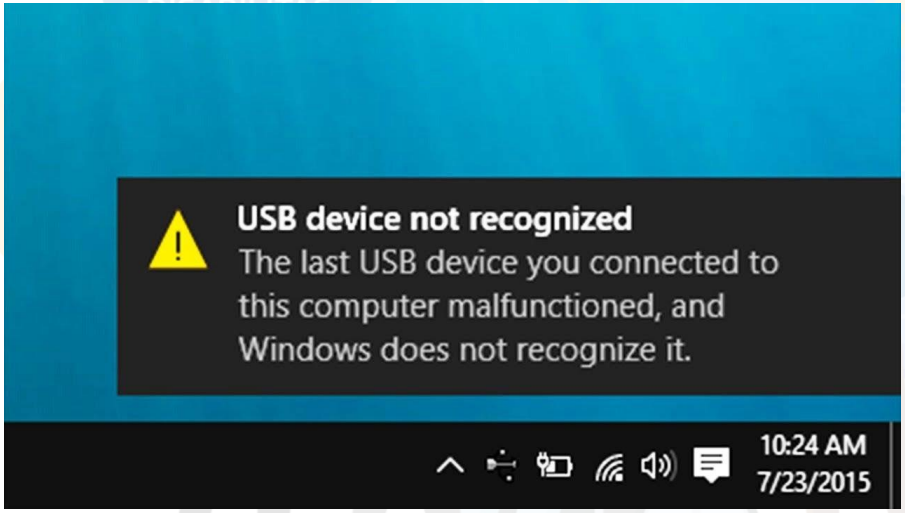
Are they going to add
more seller ?
YES

How do you backup ?

TERBUKA
UNTUK
DISABILITAS

Fail ?


System Restore
System Restore did not complete successfully. Your computer's system files and settings were not changed.
Details:
System Restore could not access a file. This is probably because an antivirus program is running on the computer. Temporarily disable your antivirus program and retry System Restore.
An unspecified error occurred during System Restore. (0x80070005)
You can try System Restore again and select a different restore point. If you continue to see this error, you can try an advanced recovery method.
Run System Restore
Close


USB device not recognized
The last USB device you connected to this computer malfunctioned, and Windows does not recognize it.
10:24 AM
7/23/2015

AWS Storage Services

Amazon EBS	Persistent block storage for Amazon EC2
Amazon S3	Regionally distributed, web-enabled object storage
Amazon Glacier	Long-term record storage for archive and regulatory compliance
Amazon EFS	Sharable, network-attached file storage
AWS Storage Gateway	AWS extension of your on-premises storage
Cloud Data Migration Services	Efficient data migration options

What is EBS ?

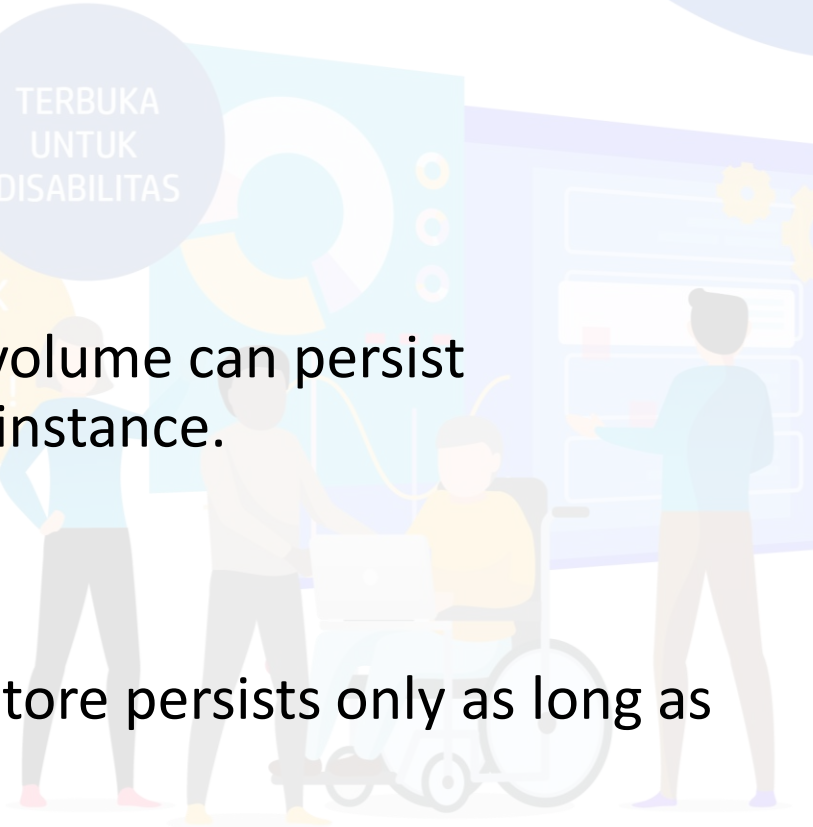
EBS – Elastic Block Store
Same like Hard Disk for your EC2

- Persistent block level storage volumes offer consistent and low-latency performance.
- Stored data is automatically replicated within its Availability Zone.
- Snapshots are stored durably in Amazon S3.

Amazon EBS Volume Types

	SSD		HDD	
Volume Type	**General Purpose SSD (gp2)**	**Provisioned IOPS SSD (io1)**	**Throughput Optimized HDD (st1)**	**Cold HDD (sc1)**
Description	Balances price and performance for a wide variety of transactional loads.	Highest-performance SSD volume designed for mission-critical applications.	Low-cost HDD designed for frequently accessed, throughput-intensive workloads.	Lowest cost HDD designed for less frequently accessed workloads.
Volume Sizes	1 GiB – 16 TiB	4 GiB – 16 TiB	500 GiB – 16 TiB	500 GiB – 16 TiB
Dominant Performance Attribute	IOPS	IOPS	MiB/s	MiB/s

Amazon EBS vs. Amazon EC2 Instance Store



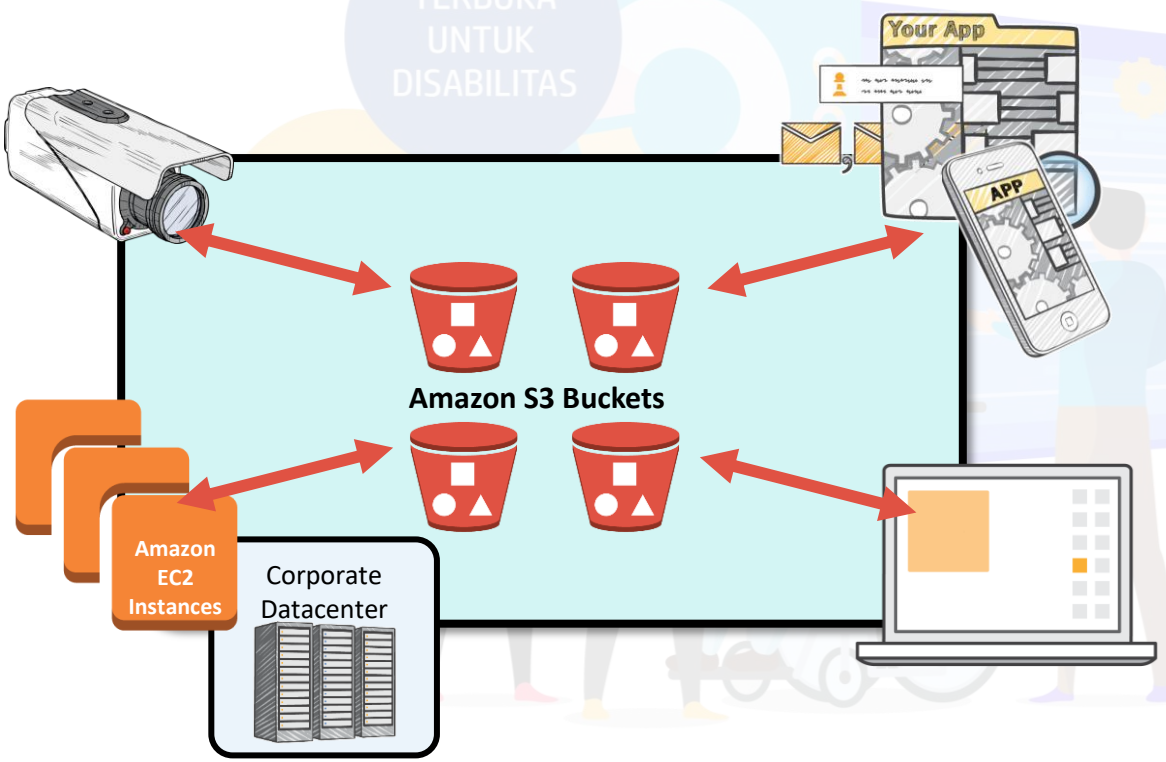
- **Amazon EBS**
  - Data stored on an Amazon EBS volume can persist independently of the life of the instance.
  - Storage is **persistent**.
- **Amazon EC2 Instance Store**
  - Data stored on a local instance store persists only as long as the instance is alive.
  - Storage is **ephemeral**.

What is Amazon S3?

- Data is stored as objects within buckets
- Unlimited storage
  - Single object limited to 5TB
- 99.999999999% durable
- Granular access to bucket and objects

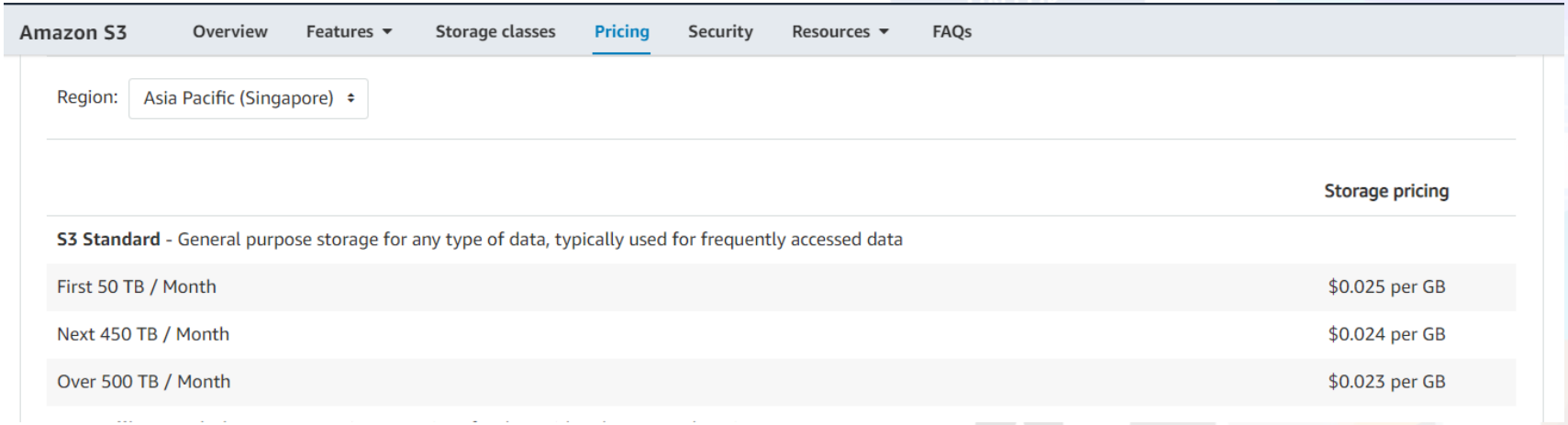
Amazon S3 Common Use Scenarios

- Backup and storage
- Application hosting
- Media hosting
- Software delivery



TERBUKA UNTUK DISABILITAS

S3 Pricing



If we assume 1 USD = IDR 15.000

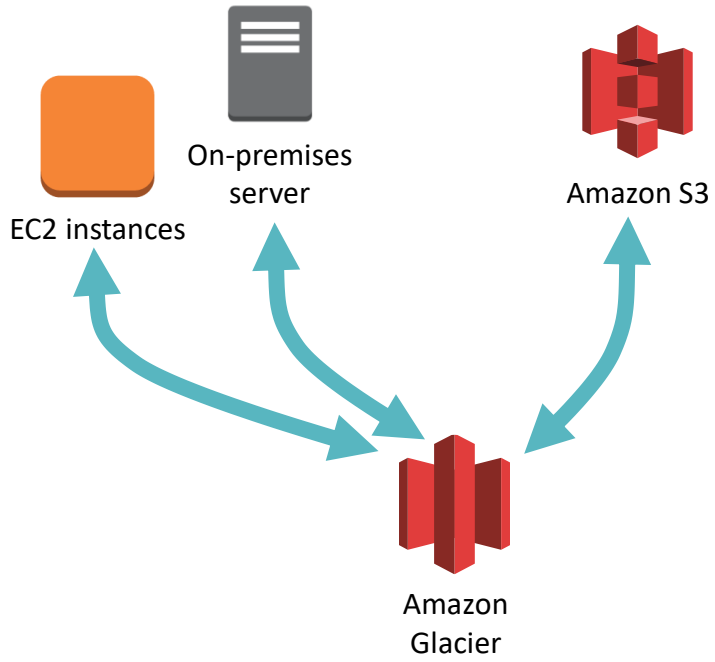
Cost for 1 Gb storage per month = 0.0025 x 15.000 = IDR 375

Achieving

- Media asset workflows
- Healthcare information archiving
- Regulatory and compliance archiving
- Scientific data storage
- Digital preservation
- Magnetic tape replacement

What is Amazon Glacier?

- Low-cost data archiving and long-term backup
- 3- to 5-hour retrieval*
- Can configure lifecycle archiving of Amazon S3 content to Amazon Glacier



S3 Glacier Pricing

Storage pricing

Region: Asia Pacific (Singapore)

- $0.005 per GB / Month

If we assume 1 USD = IDR 15.000
Cost for 1 Gb storage per month = 0.0005 x 15.000 = IDR 75

Amazon EBS and Amazon S3

	Amazon EBS	Amazon S3
Paradigm	Block storage with file system	Object store
Performance	Very fast	Fast
Redundancy	Across multiple servers in an Availability Zone	Across multiple facilities in a Region
Security	EBS Encryption – Data volumes and Snapshots	Encryption
Access from the Internet?	No (1)	Yes (2)
Typical use case	It is a disk drive	Online storage

(1) Accessible from the Internet if mounted to server and set up as FTP, etc.
(2) Only with proper credentials, unless ACLs are world-readable

AWS S3 Case Studies

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