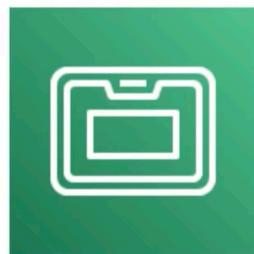


AWS Snowball



Petabyte-scale data transfer service.
Move data onto AWS via physical briefcase computer



Snowball

Low Cost It cost thousands of dollars to transfer 100TB over high speed internet.
Snowball can reduce that costs by **1/5th**

Speed It can take 100 TB over 100 days to transfer over high speed internet
Snowball can reduce that transfer time by **less than a week**

Snowball features and limitations:

- E-Ink display (shipping information)
- Tamper and weather proof
- Data is encrypted end-to-end (256-bit encryption)
- uses Trusted Platform Module (TPM) ←
- For security purposes, data transfers must be completed within **90 days** of the Snowball being prepared.
- Snowball can **Import** and **Export** from **S3**



Snowballs come in 🤝 two sizes:

- **50 TB** (42 TB of usable space)
- **80 TB** (72 TB of usable space)



a specialized chip on an endpoint device that stores RSA encryption keys specific to the host system for hardware authen



(A)

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Snowball Edge

Similar to Snowball but with **more storage** and with **local processing**

Snowball Edge features and limitations:

- LCD display (shipping information and other functionality)
- can undertake local processing and edge-computing workloads
- Can use in a cluster in groups of 5 to 10 devices
- three options for device configurations
 - storage optimized (24 vCPUs)
 - compute optimized (54 vCPUs)
 - GPU optimized (54 vCPUs)

Snowball Edge come in two sizes:

- **100 TB** (83 TB of usable space)
- **100 TB Clustered** (45 TB per node)





Snowmobile

a **45-foot long** ruggedized **shipping container**, pulled by a **semi-trailer truck**.

transfer up to **100PB** per Snowmobile

AWS personnel will help you connect your network to the snowmobile and when data transfer is complete they'll drive it back to AWS to import into  **S3** or  **Glacier**

Security Features

- GPS tracking
- Alarm monitoring
- 24/7 video surveillance
- an escort security vehicle while in transit (optional)





Snowball & Snowball Edge & Snowmobile *CheatSheet*

- **Snowball** and **Snowball Edge** is a rugged container which contains a storage device
- **Snowmobile** is a a 45-foot long ruggedized shipping container, pulled by a semi-trailer truck.
- Snowball and Snowball Edge is for **peta-scale** migration. Snowmobile is for **exabyte-scale** migration
- **Low Cost** thousands of dollars to transfer 100TB over high speed internet. Snowball is **1/5th**
- **Speed** 100 TB over 100 days to transfer over high speed internet, Snowball takes **less than a week**
- **Snowball come in two sizes:**
 - **50 TB** (42 TB of usable space)
 - **80 TB** (72 TB of usable space)
- **Snowball Edge comes in two sizes:**
 - **100 TB** (83 TB of usable space)
 - **100 TB Clustered** (45 TB per node)
- **Snowmobile comes in one size:** 100PB
- You can both **export** or **import** data using Snowball or Snowmobile
- You can import into **S3** or **Glacier**
- **Snowball Edge** can undertake local processing and edge-computing workloads
- **Snowball Edge** Can use in a cluster in groups of 5 to 10 devices
- **Snowball Edge** provides three options for device configurations
 - storage optimized (24 vCPUs)
 - compute optimized (54 vCPUs)
 - GPU optimized (54 vCPUs)