

Air-Gapped Network



What Is an Air-Gapped Network?

Air-gapped networks are networks that are physically isolated from other networks, such as the internet, to prevent unauthorized access and data leakage.

Air-Gapped Network



Internet



Air-Gapped

Types of Air-Gapped Networks

● Physical air gap

- Physically disconnected from other networks
- Physical air gaps are the most secure way to protect data from cyberattacks.

● Logical Air Gap

Isolating a network from other networks using logical security controls, such as firewalls, or intrusion detection systems.



The Annoying Challenges

- File transfer to/from the air-gapped network
- Malware breaches into the air-gapped network



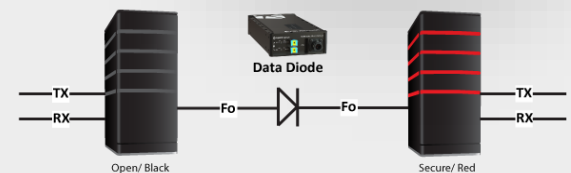
Classical Solutions

- **Removable media**

Removable media, such as USB drives and external hard drives, can be used to transfer files between the networks

- **Data diodes**

Data diodes are devices that allow data to flow in one direction only. This makes them ideal for transferring files from an air-gapped network.





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