

What is fragmentation

"Fragmentation happens when the storage system stops allocating contiguous space to store a complete file. Instead, it breaks the file into pieces and fits it on the existing disk gaps

While working on the system, the user performs the file operations like writing, deleting, resizing, etc. Therefore Fragmentation is a natural occurrence.

When a file is saved out in various parts over different locations, it takes a longer time to run. But the consequences of Fragmentation are far more extensive.

Fragmentation is an important function of network layer. It is technique in which gateways break up or divide larger packets into smaller ones called fragments. Each fragment is then sent as a separate internal packet. Each fragment has its separate header and trailer.