**Problem 1.** Mean Time Between Failures (MTBF), Mean Time To Replacement/Repair (MTTR), and Mean Time To Failure (MTTF) are useful metrics for evaluating the reliability and availability of a storage resource. Explore these concepts by answering the questions about devices with the following metrics:

MTTF: 3 Years  
MTTR: 1 Day

Calculate the MTBF and availability for the devices.

MTBF = MTTF + MTTR

MTBF = (3\*365) + 1

MTBF = 1095 + 1

MTBF = 1096 days

Availability = MTTF/(MTTF + MTTR)

Availability = 1095/1096

Availability = 0.99908 = 99.91%