What is Auto-growth?

- An auto-growth event is the process by which the SQL Server engine expands the size of a database file when it runs out of space. Each database has its own auto-growth setting – that is set by the default setting of the model database. Rarely do we use the model setting.

Why set up the auto-growth for each database?

- If you don't set up the auto-growth setting for each database and be proactive in your duties, then each time an auto-growth event is performed, SQL Server holds up database processing while an auto-growth event occurs. And this can cause poor performance.

What is the purpose of auto-growth and it's consequences of not setting up the auto-growth properly?

- Each time the auto-growth event occurs, the server need to expand this space and place the space in the disk. However, since the space allocated for the database may not be next to each other on the disk, the will cause your database file to become fragmented, thus poor performance.
- The initial settings for auto-growth are set to the default values when defining a new database. These defaults are established by using the auto-growth settings on the model database files.

How can I avoid auto-growth events from occurring too many times?

- Pre-Size your databases and size the auto-growth to an appropriate.